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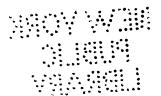
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carr are in operation in some localities. The most important step of progress in this direction is that taken in connection with the Baltimore Belt Line Tunnel, in which the steam locomotives have been discarded, and powerful electric locomotives, operated on the overhead wire system, adopted to draw heavy trains through the tunnel. This system has proved so successful that in 1896 two 96-ton locomotives were added to the plant. — An underground electric railroad is in operation under the city of London (City and South London line); excavations are being made (1897) for the Waterloo and City line, and others are projected in the British metropolis.

wheels. The underground system is similarly divided into two methods, the one being a continuous bare conductor placed in a open-slotted conduit, the other a sectional bare conductor similarly placed. The conduit may be placed in the centre of the track, or at its side in connection with one of the rails, as in the street railway system of Budapest. In the first method, parallel conducting wires traverse the conduit and are connected with the terminal wires of the generating dynamo. The current is taken from them by means of a traveling brush or roller, known as a plow, sled, or shoe, which takes up the current and conveys it to the motor in the car. In the second or sectional method,

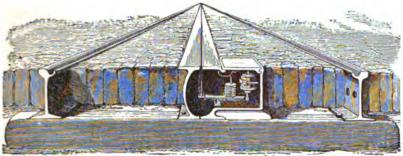


Fig. 2840.-- UNDERGROUND ELECTRIC BAILWAY-SINGLE TRACK

Conducting Systems.—Various methods have been tried in the problem of conducting electricity from the stationary dynamo to the motor in the car, and also in the application of storage batteries (borne on the car itself) to car propulsion. The method at first tried, that of employing the rail itself as a conductor, soon proved impracticable, despite its case and economy of installation, both from the difficulty of insulating the conductor and the danger likely to arise from its use. In elevated railways, however, the use of a third insulated rail as a conductor is entirely practicable, and is the system now generally employed. For street traffic two systems are now in use, the overhead and the underground, the former being employed, on account of its superior cheapness, in much the larger number of instances. The overhead system embraces two varieties; the continuous trolley wire, and the divided or sectional trolley wire is connected with a number of feeder wires, which in some cases extend from the generating station the whole length of the line, and are connected with it at successive points, or separate feeders extend from the generator to points on the line where they are tapped into the trolley wire. This system is especially employed in suburban districts and small towns. In the divided or sectional wire method the feeders extend the entire length of the line, while the trolley wires are divided into sections, the feeders being connected to the central points or the ends of each section. As employed in city streats, the feeders are carried underground and pass upward through the supporting poles at suitable intervals, being extended from the top of these poles to the central trolley wire. The current is taken from the wire by the aid of a small rolling wheel trolley, passing downward through a conducting pole and insulated wires to the motor under the car, whence the current escapes to the rails of the track through the

the conducting wire is divided into sections that, on the passage of the car over them, become automatically connected with the generating dynamo. In these sectional systems, magnets are ingeniously employed to produce the necessary contact. The main conductor produce the necessary contact. The main conductor passes through the conduit, and is lifted, as the car passes, by the attraction of magnets beneath the car; the conductor being thus brought into contact with short sections of conductive material fixed in the top of the conduit, which become temporarily charged with electricity, and supply it to the motor. When the car passes, the conductor, no longer attracted, sinks, and the contact-sections lose their charge. In order to regulate the speed of electric cars, various devices are employed, consisting of rheostats, or resistances, introduced into the circuit or removed from it by means of a hand lever. To change the direction of the car's motion, the motor must be made to reverse its direction of rotation. This is done by the aid of some reversing gear which shifts the commutation brushes or otherwise affects the purpose.

purpose.

STORAGE BATTERY STSTEM.—The storage system has important advantage in principle over the trolley system, each car carrying its own source of power and acting independently of all others, while all the complex arrangement of conducting and feeding wires, and of specially laid and connected rails can be dispensed with. In this system, each car is provided with a set or battery of storage cells, placed under the seats of the car; or these are placed in sense rate locowitiva.

in a separate locomotive. They are charged again, when near exhaustion, ones being quickly performed. The advantages of this system are counterweighted with serious disadvantages which have prevented its wide introduction. These are the weight of the batteries, the cost of renewing them when injured by rough treatment on the road, and the lack of effectiveness as compared with the trolley system. These drawbacks have hitherto prevented any general introduction of the storage battery system, it being employed only in cities where there is legal prevention of the use of the overhead trolley. In New York city, where the overhead wire is pro-hibited by law, steps are now (1897) being taken for the introduction of the underground system for the surface street railways.

Practical Application.—The current is supplied from the station dynamos, through the copper trolley wire to the motors, at a potential of 500 volta, the strength of current varying to meet the work required on each particular road or system of roads. Ordinarily, the trolley wire is suspended over the center of the track from poles planted at the side of the street, by means of cross wires, which are insulated from the trolley wires except where utilized for feed purposes. In suburban districts the feed wires are carried overhead, mounted on glass insulators carried on the poles. But for ordinary street surface roads they are buried underground in conduits and are much more thoroughly insulated. The trolley pole, which rises from the top of the car and carries the contact wheel, is pivoted and pressed upward by a spring, which keeps the trolley uniformly in contact with the wire, whose current is carried down through metallic conductors to the motors, which are flexibly suspended on the car trucks, one end of the motor being pivoted to the axle and the other suspended by springs from the car frame. This mode of suspension is required to prevent shocks to the motor that might damage the insulation of the wires. The current from the motor armature is conveyed to the axle by suitable conducting methods, and thence passes to the wheels and tracks. To drive an ordinary 16-foot car, two 15 horse-power motors are employed, one altached to each axle and connected in series. In practice the generator should be able to furnish from 20 to 25 horse-power for each car used, in order to provide sufficient reserve power for contingencies. Under average conditions a car uses about 1 horse-power per car mile per hour. As regards the attainable speed, it is claimed to go far beyond that to be had from steam locomotives, and it is said that 130 miles an hour have been attained experimentally.—Generators and Motors. As the principle of operation of the motor by which electric cars are driven is not generally understood, some brief

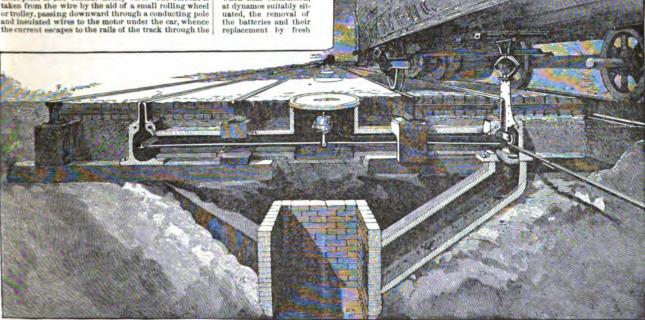


Fig. 2841.—Underground electric railway—double trace.

which acts upon the molecules or atoms of the armature, and causes the lost power of rotation to be changed into some form of molecular or atomic vibration. The form produced is that known as electric current. This current possesses an energy equivalent to that of the steam or other power exhausted in its production, and to outflow over the conducting wire is equivalent to the transfer of this quantity of energy to a distant point,—in this instance to the armature of the car motor. This motor is a dynamo precisely similar in principle to the generating dynamo, though differing in form to meet the requirements of the situation. The current generated in the primary armature, in its passage through the motor armature, has the effect to cause this to rotate in turn, through the action upon it of its electric magnets; the energy fed into it by the current being thus converted into mechanical energy. It would appear that the passage of the electric current through the armature coil energizes the attraction upon the coil of the neighboring magnets, and causes the portions of the coil energized to move foward the magnetic poles, the armature moving in an opposite direction to that given to the generating armature, the process being essentially a restoration of the original conditions. The motion thus given the armature is derived from the electric energy of the current, which is converted back again, through the magnetic attraction, from molecular to mass motion, the armature revolving with an energy equivalent—except for certain items of loss—to that given the generator armature. All electric motors, therefore, depend for their operation on the tendency of a conductor carrying a current to move in a magnetic field; or, in other words, on the action of electric attraction and repulsion on such a conductor. In all cases the rotation is in such a direction as to induce in the armature an electro-motive force opposed to that of the driving current; therefore called the counter electromotive force. This force exerts a resi which acts upon the molecules or atoms of the armature. driving current; therefore called 'the counter electromotive force. This force exerts a resisting influence and
opposes the passage of the driving current until, when
a certain maximum speed is attained, very little current
passes. In practice, however, this maximum speed is
not attained; a small current is expended in overcoming
friction in the bearings, air friction, &c. When the load
is placed on the motor, or work required to be done by
it, the speed is reduced and the counter electro-motive
force decreased, thus permitting a greater current to
pass. The fact that the load thus regulates the current
automatically, renders electric motors very economical
in operation.

in operation.

Electric Repul'sion. The driving apart, by a seeming repulsive force, of two bodies containing a similar electric charge, or of two wires of an electric circuit whose currents are flowing in opposite directions. It is opposed to electric attraction, which takes place between opposite electric charges, and between two wires whose currents are flowing in the same direction.

two wires whose currents are flowing in the same direction.

Electric Resist'ance. All substances, even the best conductors, resist the passage of electricity in some degree, while certain dielectrics resist it almost absolutely. Gases offer very high resistance to the flow of a current. Idquids are also much more resistant than solids, with the single exception of mercury. Solids vary greatly in this particular, metals usually having small resistance; no two are alike. Silver has the smallest of all known resistances.—Resistances, as they are denominated, are often placed in an electric circuit to produce some special effect. They consist of coils, strips, bars, or spirals of metal, plates of carbon, metallic powders, liquids, etc. The effect of resistance is a conversion of electric energy into heat, yielding incandescence if the resistance be considerable. The incandescent light is the result of the high resistance of the carbon of an incandescent lamp. The electric resistance of of electric and non-conductors generally decreases with increase of temperature.

metallic conductors, but it decreases that of the carbon of an incandescent lamp. The electric resistance of dielectric and non-conductors generally decreases with increase of temperature.

Electric Shacelk. The physiological effect produced in an animal by the electric discharge. It is much employed in electro-therapeutics for curative purposes. A severe shock, like that of the lightning stroke, is often followed by death; though this is not due to the shock, but to the disrupting effects of the discharge.

Electric Sparks. See Electrato Discharge.

Electric Storage Bat'kery. The subject of electric storage is referred to in several of the accompanying articles, and the use of the storage bettery in power propulsion is mentioned under Electric Rallway. A description of the principle involved in this so-called storage of electricity is here proposed. A storage battery is composed of a number of storage cells, so arranged as to work in unison. A storage cells, so arranged as to work in unison. A storage cell is composed of two plates of metal, or of metallic compounds, immersed in an electrolytic liquid, which has no power of acting on them to any important extent until after their surface chemical conditions have been changed by the passage of an electric current from one plate to the other. The simplest storage cell is that of Planté, the discoverer of electricity is passed, one plate serving as the positive and the other as the negative pole of the electrolytic arrangement. As a result, decomposition of lead takes place and lead peroxide (PbO<sub>2</sub>) is formed and deposited on the positive plate, while finely divided, spongy lead is formed on the negative plate. The cell is now charged with stored electricity, to use the common phrase; though what has really taken place is the production of dissimilar chemical condi-

tions in the two plates, the resulting arrangement being one capable of setting up galvanic action, with the production of an electric current in a reverse directhe production of an electric current in a reverse direction to the originating current. As a result, when the charging current ceases, and an interior circuit between the plates is formed, electric action begins, the peroxide of lead (PbO<sub>2</sub>) giving up one of its oxygen atoms, which makes its way to the spongy lead on the other plate and converts it into monoxide of lead (PbO). The final result is that both plates become covered

ELEC

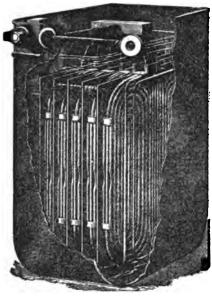


Fig. 2842.—WADDELL-ENE STORAGE BATTERY.

with the monoxide and, being similar in condition, the chemical action ceases. While the activity continues an electric current passes through the circuit in an opposite direction to that of the charging current, and this current is capable of being utilized for power production or other purposes. To increase the capacity of storage cells, the charging current is sent through them alternately in both directions, charging and discharging, until the plates have been acted upon to a considerable depth, and as large a coating of lead monoxide as possible produced. By this means the time of their discharge is prolonged. The chemical action above stated is not the only one which takes place, but simply the final result of the action, hydrated sulphate of lead being intermediately formed, and then decomposed. The original Planté cell has been superseded by one in which the lead plates are replaced by metallic plates covered with a surface layer of red lead (Pb<sub>2</sub>O<sub>4</sub>). On charging these the Pb<sub>2</sub>O<sub>4</sub> is converted into PbO<sub>2</sub> at the

litharge have been employed. They have the advantage of a greater storage capacity per unit weight than where a grid is used, but their resistance is greater. A storage battery is composed of a number of these cells held together in a suitable receptacle, and so arranged that their conducting wires form a single circuit, and their sum of energy is combined. They do not in any sense store electricity, but the term is convenient and has been retained. One or more storage batteries may be employed in the running of a street car or for other purpose. One advantage which they possess is that electricity which is being developed, but is temporarily not in use, may be employed in charging storage calls for subsequent use, its waste being thus avoided. Electric Target. An ingenious device whereby an indicator dial at the shooting stand records, by means of electricity, the exact effect of each shot that hits the target. The latter is divided into radial sections, the bull's eye consisting of four of these. Push-buttons form the face of the sections, having bolts projecting rearward, each bolt being encircled by a spiral spring

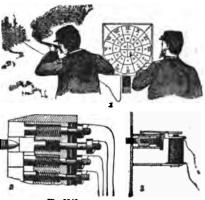


Fig. 2843.—ELECTRIC TARGET.

(2). The indicator dial is correspondingly divided intesections, and connected by wire with the target. The impact of a bullet on one of the push-buttons drives back its connected bott, on the end of which is a conducting plate. At the same instant a plunger is projected in the corresponding section of the indicator. An electric bell may be included in the circuit, ringing at the same time any one of the plungers is released. Electric Tell'pherage. The system known as telpherage was first devised by Professors Fleeming Jenkin, Ayrton and Perry, as a ready means of transport for minerals across uneven country, over which their carriage by road would be tedious and expensive. The first telpher line erected was as Glynde, near Lewes, England, in 1886. It was about a mile long and was used to transport clay from a pit to a railway, so as to avoid its carriage over intervening fields and water. One was subsequently erected in Cornwall to convey minerals from a mine over a piece of difficult country. This system has also been used for the transportation of logs (Fig. 2844). The conducting wires are sus-



Fig. 2844.—ELECTRIC TRANSPORTATION OF LOGS

anode, and deoxidized, or converted into metallic lead, anode, and deoxidized, or converted into metallic lead, at the cathode. Or, in other cases, red lead is placed on the anode and litharge (PbO) on the cathode. By this means the time required for charging is decreased. The plates are perforated or otherwise made irregular on the surface, that they may the better support the active material, which is held in place by being compressed into the apertures or holes. Such a plate is known as a grid, from its bearing some resemblance to a griddiron. Recently, plates composed of compressed pended in the air on posts, or otherwise, and on these run small electric motors which take directly from the wires the current necessary to set them in motion. From the travelling motors are suspended carriages for the transport of the load to be moved. Two lines are provided, an sp and dosse line, each being in segments, the alternate segments being insulated from each other, but in electric connection through cross-pieces on the supporting posts. The carriages are connected in trains long enough to touch two segments at once and thus

carry the current from one segment to the next one. Where a current can be generated by water-power, a telpherage line is useful and economical; but the system

Where a current can be generated by water-power, a telpherage line is useful and economical; but the system has as yet leven little employed.

Electric Weldd'ang. Metals may be united by the use of electric heat with a rapidity and perfection unequalled in any other process. In this system of electric welding, as devised by Prof. Elliu Thomson, the metals are heated to incandescence by currents obtained from transformers, and are then caused to combine by pressure or hammering. In the dynamo employed for this purpose no commutator is used, the alternating currents being well adapted for heating purposes. Therefore, the terminals of the dynamo can be directly connected to the clamps that hold the bar to the welder. A step-down transformer (see Electric Current) intervence and reduces the voltage greatly while correspondingly increasing the current strength, which may, for short intervals, be augmented to thousands of amperes. The welding process consists in conducting the current into the piece to be united through their points of junction when brought into firm contact. As the current crosses the junction, the resistance to its passage causes a great rise in temperature, sufficient to soften



Fig. 2845 .- ELECTRIC WELDING. mps, conducting wires, and point of o

the metal, when the pieces are firmly pressed together by the motion of the clamps or holders. The pieces are prepared for the process by being made slightly couvex at their junctions, so that they touch at but a single point or narrow space, near their centers. The welding heat is first reached at this point of contact, and as the pressure is applied the softened metal yields and new parts of the area come into contact, until all the surface is at welding temperature. This process is remarkable for its rapidity, only a few seconds being needed to produce union in small work, and only a few minutes for large work. The heating is local, extending but a short distance from the immediate area of contact, so that there is a marked saving in heat. Electric welding is somewhat widely employed in manufacturing operations, in some cases where large masses of metal are invoived. Pipes, steel rails, and heavy projectiles and guns have thus been welded; and rails having been united in this way, after being laid in position in rail-road construction.

guns have thus been welded; and rails having been united in this way, after being laid in position in railroad construction.

Elec'trical, a. Of or pertaining to electricity or electric science and appliances.

Electrical Ag'riculture. Numerous experiments have been made of late years to ascertain the influence of electricity on the growth of plants, with very interesting results. It has been shown that both atmospheric and terrestrial electricity are highly favorable to the germination of seeds and the increase of plant tissue. The electricity of the atmosphere has been conducted downward by the use of tall collecting poles and conducting wires which ramify through the soil. The use of this device is claimed by some to increase the productivity of a given area by 50 per cent. Prof. Spechnef, of Kiev, by the use of such an arrangement, condensed atmospheric electricity over an enclosed area, with the result that the ordinary grain crops showed an increase of from 28 to 56 per cent. in weight of grain, and from 16 to 60 per cent. in weight of straw. Potatoes showed an increase of 11 per cent. By electrifying the earth the root harvest was made 4 times greater, and that of the leaves 2 or 3 times. He also tried the effect of electrifying the seeds before planting, and found that when subjected to the current for only 2 minutes the former plants the former of the current for only 2 minutes the former and the current for only 2 minutes the former and the content for only 2 minutes the former and the content for only 2 minutes the former and the content for only 2 minutes the former and the content for an interest the former and the content for only 2 minutes the former and the content for only 2 minutes the former and the content for only 2 minutes the former and the content for only 2 minutes the former and the content for only 2 minutes the former and the content for only 2 minutes the former and the content for only 2 minutes the former and the content for only 2 minutes the former and the content for only 2 min the root narvest was made a times greater, and that of the leaves 2 or 3 times. He also tried the effect of electrifying the seeds before planting, and found that when subjected to the current for only 2 minutes their rapidity of growth was nearly doubled. The experiment stations of the U.S. have tried the effect of the electric light on garden vegetables with varied results. Some of these vegetables were injured or spoiled. On carrota, peas, creen, spinach, and some other plants, the results were not fully satisfactory. Lettuce was remarkably stimulated, but it was found injurious to expose it continually to the light. In truth, the exposure of plants to the electric light at night, while largely increasing their growth, is not considered beneficial, plants apparently needing periodical periods of rest. One experimenter found, with the use of continuous electric light on Alpine plants, that they presented points of structure identical with those of Arctic plants which grow under the rays of the midnight sun. It

has been found that flowers under the influence of electricity bloom much sooner and show finer and more brilliant coloring than under ordinary conditions. Glass, however, must always be interposed between the light and the plant, as the naked light is too bright, and is found to injure the foliage. What will be the ultimate result of these experiments it is too soon to say. They may lead to an important development in agriculture, or may prove to yield unfavorable results not yet determined. It seems entirely probable that the artificial stimulus of nature's processes, by means of collected electrical forces, will be surely followed by a reaction corresponding to that which affects animate beings after alcoholic or tonic stimulation, so that at the end there will be no net gain in vitality or productiveness. ductiveness.

Electrical No'menclature. Under this title

are defined those technical and other terms, employed in the science and practical use of electricity, which do not require extended separate treatment:

accumulator, n. A word sometimes applied to an apparatus in which the strength of a current is in-creased by the motion past it of a conductor; a Leyden iar or condenser.

creased by the motion past it of a conductor; a Leyden jar or condensor.

acidom'eter, m. A hydrometer used to determine the specific gravity of the acid liquor in a storage cell.

acout'meter, s. An electrical apparatus for testing the delicacy of hearing.

adielect'tric, m. A term proposed for substances which are not dielectrics.

alarm', burglar. An automatic device to indicate electrically the opening of a door or window, the stepping on a mat or staircase, &c.

al'cohol, ag'ing of, electric. A process of rapidly aging alcohol through the action of ozone produced by electricity.

al'cohol, rectification of, electric. The conversion by electricity of the aldehydes into true alcohola, and thus removing from alcohol the bad taste and odor which they give.

alternations of current. Changes in the direction of a current in an electric circuit.

al'ternation, m. An alternate current dynamo.

am'meter, or am'pere meter, m. A galvanometer for measuring the value of a current directly in amperes.

amper'age, n. The number of amperes in a given circuit.

ampere (dm-pdr), n. [From the famous electrician, Ampère.] The practical unit of electric

anelec'tric, s. A word formerly in use to indicate bodies which seemed incapable of being electrified by friction.

anelectrot'onus, s. The decreased activity of function in a nerve in the vicinity of the anode, when applied therapeutically.

am'ion, s. The electro-negative radical of a molecular and an electrolyzed

an'ion, a. The electro-negative radical of a molecule; the atom or group of atoms of an electrolyzed molecule which appears at the anode.

molecule which appears at the anode.

amnum'ciator, m. An automatic device for indicating the places at which one or more electric contacts have been closed.

am'ode, m. The electro-positive terminal of a battery in a decomposition cell; the pole or terminal from which the current flows from the electric source into

which the current nows from the electric source into the electrolytic liquid, a vacuum, &c. arc, m. A voltaic or electric arc; the brilliant light which appears between the electrodes of a powerful source of electricity when separated a short distance. arc, carbon. An arc between two carbon elec-

arc, copper. An arc between two copper elec-

are, hissing of; frying of. Hissing or frying sounds heard in a voltaic arc when the carbons are too close together.

arc, roaring of. A roaring sound heard in the voltaic arc when the carbons are too near together and

volume are when the carrons are too near together and the current is very strong.

arc, watt. A voltaic arc whose power is equal to a given number of watts, or units of electric power.

arc'ing. Discharging by means of voltaic arcs.
arc'mature, s. A mass, of magnetic material in
contact with or near the pole or poles of a magnet.

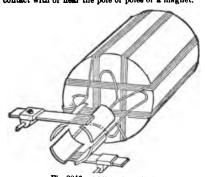


Fig. 2846.—DRUM ARMATURE.

armature, drum. The armature of a dynamo in which the wire coils are wound longitudinally over the surface of a cylinder or drum.

armature pockets. Spaces provided in the

surface of an armature to receive the wire coils.

armature, pole. A dynamo armature whose coils are wound on separate poles which project radially from the periphery of a drum, ring or disk.

armature, ring. An armature whose coils are wound on a ring, or a core of circular shape.

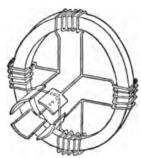


Fig. 2847.—BING ARMATURE.

armature, spherical. An armature whose coils are wound on a spherical iron core.

arrest'er, lightning. A device to protect from the destructive effects of lightning any apparatus placed in an electric circuit.

at'om of electricity. The quantity of electricity supposed to be possessed by any chemical monad

attraction, s. The mutual tendency to approach in unlike magnetic poles or electric charges, or in like electric currents.

au'ra, electric. An old term for the wind caused by electric convection. See Wind, Electric.

bal'ance, electric. Numerous forms of electric balance are in use for various purposes, including the composite. Coulomb's torsion, centi-ampere, deci-ampere, plating, Wheatstone's, &c., for electrical weight or measurement.

barad', s. A unit of pressure proposed by the British Association; the pressure of one dyne per square centimeter.

bars, omnibus. Heavy bars of conducting material connected to the poles of dynamos, and receiving the entire current of the machine. The name bus-bars or omnibus bars signifies that they carry the whole current.

whole current.

bas'ket, dip'ping. A basket of non-corrosive material in which articles to be electro-plated are dipped in the cleaning bath.

bath, electric. The tanks or cells used in electro-plating or decomposition, and in electro-therapeutics; also a shower bath in which the water-drops carry electric charges to the patient subjected to them.

bath, electric light. An electro-therapeutic bath in which all of a patient's body except the head is exposed to the light and heat of a number of incandescent lamps. cent lamps.

bat'tery, electric. A group of galvanic cells or other electric sources, arranged for combined use of

or other electric sources, arranged for combined use of their currents.

battery, storage. A number of storage cells connected so as to yield a single electric current.

bell, electric. A bell connected with a wire conductor, or otherwise arranged to sound through elec-

tric power.

bios'copy, electric. Determination of death by the passage of an electric current through the nerves and muscles.

blast'ing, electric. The ignition of powder or other explosive material in a blast by the electric spark, bleach'ing, electric. A bleaching process in which the bleaching agents are liberated by electrolytic

decomposition.

blow/pipe, electric. An air blast produced at the point of a charged conductor by a connection discharge, and utilized through a tube; a device for cutting rocks or other refractory substance by the heat of the electric are, directed against the substance by an air blast or a magnet.

bob/bim, electric. An insulated coil of wire for an electro-magnet. decomposition.

for an electro-magnet.

bore, ar'mature. The space left between the pole pieces of a dynamo or magnet for the rotation of the armature.

the armature.

bombard'ment, molec'ular. The forcible projection of the gaseous molecules remaining in exhausted ressels, from the negative electrode (cathode) against the sides of the vessels.

boost'er. n. A dynamo inserted in the feeder of an Edison incandescent light system to raise the pressure of that special feeder or group of feeders.

bou'gie-meter, n. A term proposed for the practical unit of illumination.

break. n. Lack of continuity in a circuit.

break'er, eir'euit. Any device for breaking a circuit.

circuit

bridge, elec'tric. A device for measuring the value of electric resistances; also called an electric

bridges, s. pl. Heavy copper wires for connecting the dynamos in an incandescent light station to the bus-rods or wires.

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brush discharge. An electric discharge which spreads out in a brush form.
brush, farad'ic. An electrode in brush form,

used in electro-therapeutics.

brunhes, s. pl. Strips of metal, bundles of wire, &c., which bear on the commutator in a dynamo eleccc., which bear on the commutator in a dynamo electric machine, and carry off the current; plates of carbon for leading the current to electric motors.

buck'ding. The sudden stopping of an electric street car, as if by collision.

bug, n. A term employed in some cases to designate a fault in the working of an electric apparatus.

bug'trap. A device employed to overcome the "bug' in quadruplex telegraphy.

bum'-bars. See Omnes Bars.

but'fan. car'born. A carbon resistance in the

but'ton, car poun.
form of a button, push. A button employed to close an electric circuit by being pushed.
buzz, s. The sound of an electric bell when it fails but'ton, car'bon. A carbon resistance in the

buss, s. The sound of an electric con..... to strike distinctly.

buss'ser, n. A call, less loud than that of a bell, produced by a rapid automatic make and break of current.

cable, v. To send a telegraphic despatch by means

cable, armor of. The metalling, covering, or sheathing of an electric cable.
cable, bunched. A cable containing more than

cable, bunched. A came containing more one conducting wire.
cable, capacity of. The quantity of electricity required to raise a cable to a given potential.
cal-electricity. Electricity produced by changes of temperature in the core of a transformer.
call bell, electric. An electric bell used to call the attention of an operator, to call up a person to a standardone atc.

7

telephone, etc.
cam'dle, Jab'lochkoff. An arc
light invented by Jablochkoff, in which light invented by Jablochkon, in which the carbon electrodesare placed parallel to each other and separated by a sheet of insulating material, which keeps them at a constant distance apart. An alternating current is employed with the candle, so that the carbons may be consumed to the carbons may be carbons may be carbons may be carbons may

sumei equally.

capac'ity, dielec'tric. Equivalent to Specific Inductive Capacity

lent to Specific Inductive Capacity
(q. v.),

capacity, electrostat'ic. The
quantity of electric charge necessary to
raise the potential of a conductor to a
certain fixed amount.

capacity, specific inductive. The sbility of a delectric to
permit induction to its mass, as comrared with the sense thickness of air.

CANDLE.

pared with the same thickness of air under similar circumstanc

car'bons, are lamp. Rods of artificial carb employed in arc lamps.

carbons, artificial. Carbons made by mixing pulverized carbon with different carbonizable liquids, carbonizing it by subjecting it to intense heat out of contact with air, and mobiling it into the shape desired.

eath 'ion, or kath'ion, s. The electro-positive ion or radical resulting from the decomposition of an electrolyte, and which appears at the cathode or nega-

cath'ode, or kath'ode, n. The terminal plate

eath'ode, or kath'ode, n. The terminal plate of the negative wire of a battery in an electrolytic cell, as opposed to the anode, or positive terminal. cell, electrolyt'ie. A cell or vessel containing an electrolyte, in which chemical decomposition is carried on through the agency of the electric current. cell, sec'ondary. A term sometimes applied to a storage battery cell. cell, storage. See Electric Storage. cell, thermo-electric. A thermo-electric couple.

couple

cell, volta'ie. The employment of two metals, or a metal and a metalloid, in a liquid called an electrolyte, which, when connected outside the liquid by a con-

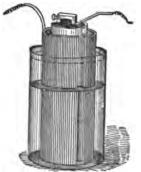


Fig. 2849.—BUNSEN CELL

ductor, will produce an electric current. A number of these cells, connected in series, forms a voltaic or galvanic battery.

ELEC

charge, bound. The condition of the electric charge in a conductor when placed near another conductor, its charge being held in it by induction. charge, dens'ily of. The quantity of electricity per unit area at any point on a charged surface.

—Distribution of: Variations in density at different points of any but a spherical surface.—Free: The charge on an isolated conductor.—Induced: The charge induced by bringing a conductor into an alectrostatic field. bringing a conductor into an electrostatic field.

charge, sweeping out. The freeling the line from the charge produced by one signal by reversing the direction of the current.

charging accumulators. Sending an electric current into a storage battery to produce in it the

tric current into a storage battery to produce in it the necessary chemical change.

clr'cuit, n. The path followed by electricity from any point through conducting material back again to its starting point.

clr'cuit, natat'ie. A circuit composed of two closed curves inclosing equal surfaces. Such a circuit is not deflected by the earth's magnetism.

cleat, crossing. A cleat arranged to permit the crossing of two wires without coming into electrical contact.

contact

climb'ers, pole. Spiked devices, worn on foot and ankle, to enable linemen to climb wooden telegraph

clos'ure, n. The completion of an electric circuit.
code, American Morse. The Morse telegraphic alphabet.

coll, chok'ing. A coil of wire wound on an iron core in such a manner as to give it high self induction. It is used to cut off an alternating current with less loss

To its used to cut off an alternating current with less loss of power than in an ohmic resistance.

coil, induction. Two parallel coils of insulated wire used to produce currents by mutual induction. A rapidly interrupted battery current sent through the primary coil induces alternating currents in the secondary coil.

ary coil. **coil. resist/ance.** A coil of wire whose electrical resistance is known, and which is employed to measure resistance.—Standard resistance coil. A coil whose resistance is that of the standard olum, or some multiple or such sub-multiple thereof.

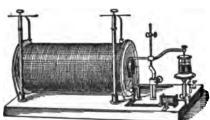


Fig. 2850.—RUHMKORFF COIL

coil, Ruhm'korff. Any coil whose secondary gives currents of higher electro-motive force than the

colls, Henry's. A series of several induction coils

collect'ors, s. pl. Devices for taking off electricity from a moving electric source, as from the plate of a frictional machine or the commutator of a dynamo

machines.

com'mutator, n. A device for changing the direction of an electric current.—Dynamo Commutator. That part of the dynamo machine which causes the alternating currents produced in the amature to flow in the same direction through the external circuit.

conduct', v. To pass electricity through conducting substances.

ing substances.

conduction, w. The flow or passage of electric

energy through a conducting substance.

conduction, disrup'tive. Conduction in which a resistance in the circuit is suddenly overcome which a resistance in the circuit is suddenly overcome, conductor, a. A substance which permits the passage of an electric current. contact breaker, automatile. A device through which an electric current rapidly makes and

former (q. v.).

COPC, armature. The iron core around which
the wires of an armature are wound.

COULOMB (kū-lòm'), n. The unit of electrical quan-

couple, volta'ic. The two dissimilar metals or substances of a voltaic cell. eross, s. A connection made between two conduct-ing lines; a defect in a telegraph or other circuit from

the actual contact of two wires.

eross, weather. A contact or lock made in a telegraph line in wet weather, from defective action of the insulators.

the insulators.

crossing, live trolley; cross-over,
trolley. A device to enable a trolley, moving on a
line that crosses a second line at an angle, to maintain

through a conducting circuit. It may be direct or alto . ge of electricity nating; constant or variable; and is measured by the quantity which passes per second through any circuit. currents, ed'dy. Useless currents produced in

the substance of any conductor, which form close cir-cuits of low resistance and tend to cause undue heating in the armatures or pole pieces of dynamos. They con-

stitute a waste of energy.

cmrrents, extra. Currents caused in a circuit by self-induction of the current on itself when the

by self-induction of the current on itself when the circuit is made or broken.

cut in, to. To complete the electric circuit by introducing into it an electro-receptive device.

cut out, to. A mechanism for throwing out of the circuit an electro-receptive device.

damp'er, s. A metallic cylinder in an induction coil, which surrounds the iron core in part or completely, and is used to vary the intensity of the induced currents; also sometimes applied to a dash-pot (q. v.).

damp'ing, s. Stopping vibratory motion; such as bringing a magnetic needle quickly to rest, instead of permitting it to swing.

dash'-pot, s. A mechanical device to prevent too sudden motion in the movable parts of an electric apparatus.

dead beat. A movement of a galvanometer needle in which it passes sharply from point to point of the scale and comes quickly to rest.

death, electric. Death caused by the passage

decomposition, electrolytic. The separation of chemical molecules into their component parts

by the action of the electric current.

depolarization, s. Removal of the polarization of a voltaic cell or battery.

detect'or, ground. A device used in an incandescont circuit to show, by the candle-power of a lamp, the location of a ground in the system.

dielec'trie, n. A substance which permits induction to take place through its mass. All dielectrics are non-conductors.

non-conductors.

dim'mer, s. A choking coil, employed in a transformer system to regulate the potential of the feeders.

earth, s. A fault in an electric circuit caused by contact of the line with the ground, or with some conductor connected with the ground.

earth, bad. A ground, or earth connection, of comparatively high resistance.

earth cur'rents. Electric currents in the earth, due to a difference of potential at different points.

earth, dead or total. A fault in which a line is thoroughly grounded and the current lost.

earth, good. An earth connection of low resistance.

earth or ground. That part of the earth which forms part of an electric circuit.
earthed, a. Connected to earth.
electrep'eter, s. An instrument for changing the direction of an electric current; a term now replaced by switch, key, or pole-changer.
electrician, s. One versed in the science and application of electricity.
electricity, franklim'ie. In electro-therapeutics, the electricity produced by a frictional or influence machine.

ence machine.

electrom/eter, n. An apparatus for measuring

ence macnine.

electrom/eter, m. An apparatus for measuring differences of electric potential.

electromeg'atives, m. pl. The atoms or radicals that appear at the anode during electrolysis.

electroph'amy, m. Capital punishment by means of electricity; electrocution.

electropho'bia, m. A devotee of electricity.

electropho'bia, m. Fear of electricity.

electropho'tives, n. pl. The atoms or radicals which appear at the cathode during electrolysis.

electrot'omms, m. (Pub.) The change in func-

electrot'onus, n. (Path.) The change in func-tional activity which is caused in a nerve by an electric

The name given in ancient times elec'trum. s

electrum, a. The name given in ancient times to substances readily electrified by friction.

el'ement, negative and positive. The two plates of a voltaic cell.

en'ergy, electric. The power which electricity possesses of doing work.

eudiom'eter, s. A voltameter possessing gradued vessels to receive and measure the gases evolved

during electrolysis.

during electrolysis.

explor'er, electric mine. A device for the firing of blasts by currents of high electro-motive force.

explor'er, electric. An apparatus for locating bullets or other metallic substances in the human body by means of induced currents.

far'ad, s. The practical unit of electrical capacity. farad'ic current. A rapidly alternating current produced by an induction coil for use in electro-thermonics.

therapeutics.

therapeutics.

faradic machine. A machine for producing faradic currents, consisting either of an induction or a magneto-electric machine.

faradization, m. The effects produced on the nerves and muscles by the use of a faradic current, as distinguished from those produced by a voltaic current. fault, m. A failure in the working of a circuit, due to ground or cross contacts or disconnections.

feed, m. A current supply from any source of electricity.

tricity.

feed'er. s. A wire conveying the current from the dynamo to the main conductor.

feet, ampere. The product of the current in amperes by the distance in feet through which it passes.

f'brone, s. An insulating substance of a fibrous composition.

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field, s. The region of electrostatic or magnetic

innuoco.

Ind'er, position; finder, range. An electric device by which the exact position or distance of an object can be learned.

Inder, wire. A galvanometer used to find the corresponding ends of different wires in a branched cable.

fre, St. Elmo's. Tongues of faint illumination which sometimes appear at the ends of masts and of pointed bodies connected with the earth, as flag-poles,

pointed boures connected to the church steeples, etc.

flashed car'bons. Carbon conductors for incan
flashed car'bons on whose surfaces carbon has been

descent lighting on whose surfaces carbon has been deposited to improve their uniformity of conduction.

fiashed filtaments. Carbon filaments for incandescent lighting which have been flashed. See FLASHED CARBONS.

fiats. s. pl. Parts of commutator segments whose was the beauth leavened by wear.

mats, a. pt. Parts of commutator segments whose surface has become lowered by wear.

\*\*Bush'-box\*, a. A box or space flush with the street surface, in a system of underground wires, to give access to the conduit.

\*\*Buy'slog\_raph\*, s. An electric apparatus for registering differences of water level.

\*\*Superation\*\* A wheel driven by the

By or flyer, electric. A wheel driven by the section of a convective discharge. Fog., electric. A dense fog which sometimes ppears when the atmosphere contains much free elec-

ppeure ricity.

force, contact. A discretion of the contact of unlike metals. force, electro-motive. The force which moves or tends to move electricity.

The force arising from the contact of the contac

force, electrostat'ic. The force arising from the attractions or repulsions of charged bodies.

force, limes of. The lines in which the force of

a charged body, a magnet, &c., appear to act.

force, tubes of. Tubes or cones embracing a
number of lines of force.

foucault (foo-ki') currents. Eddy currents. franklinization, n. Electrisation by a fric

tional or influence machine.

fre'quencies, Tes'la. A term employed for

frequencies, Tewis. A term employed to accedingly high frequencies.
frequency, fundament'al. The lowest frequency of a current which has harmonics.
frog, trolley. A device to hold together the rolley wires at points where they branch.
full gerite, a. A tube of vitrified sand, supposed

trolley wires at points where they oracid.

fulfgerite, a. A tube of vitrified sand, supposed to be caused by a lightning stroke.

fuse, electric. A device for igniting a charge of powder by electricity.

fuse, mang anine. A safety fuse arranged for easy replacement when burned out.

fuse, placi'mum. A thin platinum wire, used ignite a charge of gunpowder by electric incan-



Fig. 2851.—SAPETY FUSE.

fuse, safety. A section of lead, or some easily fusible alloy, placed in a circuit, which it breaks by fusing when the current becomes so strong as to

when the cutton becomes so strong as to threaten danger.

galina, n. pl. The spaces cut in telegraph poles to receive the cross arms.

gal/wamism, m. The effects produced by voltaic

galvamization, electro-metallurgic. The process of depositing a metallic coating by electrolysis; electro-plating.

galvanization, electro-therapeu'tic.

The effects of a voltaic current on nerves and muscles, galvamom'eter, n. An instrument to measure the strength of an electric current by the deflection of a magnetic needle

galvamot'ropism, s. (Biol.) Movements pro-red in living organisms by the passage through them

occd in iving organisms by the passage through them of electric currents.

gap, mir. A gap in a magnetic circuit filled by air.

gap, spark. A gap in a circuit which is closed by a spark when the difference of potential grows strong.

gas/sing. s. The evolution of gas from storage

gas troscope, s. An electric apparatus to illuminate and inspect the human stomach, a platinum spiral in a glass tube being passed into the stomach and ade incandescent

gen'erator, dynamo-electric. A dynamo-electric machine.

generator, motor. A dynamo which is driven by the power of an electric current. gov'ermor, current. A device for regulating the strength of a current. governor, electric. A device to control the speed of an electric motor, the direction of current in a relative table for a plating bath, &c.

grid, a.

grid, s. A perforated lead plate used in an electric storage battery (q,v).
ground, dead. An escape to earth from a telegraph line so great that the line cannot be worked.
ground or earth. A term applied to the earth when forming part of a circuit, or used as a reservoir of electricity.

when forming part of a circuit, or used as a reservoir of electricity.

ground return. The use of the earth for the return path of a current.

ground wire. The wire connected with the earth in a grounded circuit.

guard, fan. A wire netting around an electric fan, to prevent its arms from striking any object.

hang'er, cable. A hanger or hook to sustain a cable by supporting it on iron or steel wires strung above.

hanger, trolley. A device to support and in-sulate trolley wires.

he'liograph, s. A telegraphic instrument in which the dots and dashes of the Morse alphabet, or the movements of a needle telegraph, are represented the movements on a large by flashes of light.

Beau'ry, n. The practical unit of self-induction in

high'-bars, s. pl. The parts of commutator seg-tents which, through less wear or other cause, are ments

ments which, through less wear or other cause, are higher than the adjoining portions.

\*\*Rold'ers\*\*, n. pl. Clamps to support the carbon pencils in arc lamps; supports for the collecting brushes in a dynamo machine; boxes of refractory material to hold safety fuses and catch the metal when fused.

hour, ampere. A unit of electrical quantity equal to one ampere flow for one hour.

hour, lamp. A current sufficient to maintain an electric lamp for an hour.

hour, watt. A unit of electric power indicated by the expenditure of one watt for an hour.

hum'mer. A word sometimes employed in place of buzzer (q. v.).

hystere'sis, m. Resistance to magnetic change

of stress by molecular friction; retardation of magneti-zation and demagnetization. The energy lost in conse-quence of this resistance takes the form of heat.

ignit'er, Jablochkoff. A strip of carbon uniting the ends of the parallel carbons of a Jablochkoff caudle, to establish the arc on the passage of the

ignition, electric. Ignition by heat of electric

impe'dance, a. Any opposition to current flow.
incandes'cence, electric. The glowing of
any substance through heat produced by a passing

in'dicators, n. pl. Various devices to indicate conditions connected with electric circuits.

induc'tance, n. The induction of a current on itself or on other circuits—a term now generally employed instead of self-induction.
induc'tion, n. The influence exerted by a charged body or a magnet on neighboring bodies separated by air or other mediums.

inductom'eter, differen'tial. An appa ratus to measure the momentary currents produced by the discharge of a cable.

induct'ophone, n. A device to obtain electrical communication between moving trains and telegraphic wires, by induction between a spiral of wire in the train

and spirals fixed on the line. ertia electro-magnetic. Inductance, or self-induction.

iner'tia, magnetic. The resistance in a magnetic core to instant loss or gain of magnetism.
in-put or in-take. The energy absorbed by s

machine in causing it to do a certain work.

installa'tion, electric. The establishment fany electric plant.

rany electric plant.

insula'tion, electric. The employment of
on-conducting material on a conductor, to prevent loss
of charge or leakage of current. in'sulator, s. Any device for producing insu

intercrossing, s. A method adopted to prevent disturbance by induction in a telephonic circuit, by

disturbance by induction in a telephonic circuit, by alternately crossing equal sections of the line.

Interrupter, s. Any device for breaking or interrupting an electrical circuit.

i'ons, s. pl. Groups of chemical atoms or radicals arising from the electrolytic decomposition of a liquid.

jar, Leyden. A condenser in the form of a jar, with metallic coatings placed on the inside and outside of the jar, the outer coating connected with earth, the inner coating receiving the charge, which is bound by induction.

jar, lighting. A Leyden jar filled with iron fillings, whose discharge is given in an investigation

fairs, whose discharge is given in an irregular series of sparks resembling in shape a lightning flash. jew'elry, electric. Minute incandescent electric lamps, connected with small batteries on the person, which give the appearance of genss or jewelry. joints, s. pl. Various methods of connecting

joints, n. pl.

electric conductors.

joule, n. The unit of electric energy or work.

joule-meter. An energy meter, as distinguished from a watt-meter (g. v.).

kath'oue, n. See CATHION.

kath'oue, n. See CATHION.

key, break. A key which opens or breaks the circuit when depressed.

key, discharge. A key to enable to discharge from a condenser or cable to pass through a galvanometer, for purposes of measurement.

key, telegraphic. The key employed in tele graphy for sending over the line the successive alpha

ELEC

kinet'les, electro-. The phenomena of electric-

kine tograph, s. A device for reproducing a series of instantaneous photographs on a screen, so rapidly that the action of the original scene is accurately rapidly that the action of the original scene is accurately duplicated. As an aid to realistic effect, a large phonograph, or theatrophone, is sometimes employed to reproduce the voices of the actors shown, the sound of the surf (in sea-views), &c. Similar devices are known as the cisematograph, riviscope, mutascope, &c. ky'amising, \*\*. The preservation of telegraphic poles by the injection of a solution of corrosive sublimate into the pores of the wood.

lag, magnetie. The tendency in iron to retard magnetization.

lamp, arc. An electric lamp is which the contract of the wood.

magnetization.

lamp, arc. An electric lamp in which the light is yielded by a voltaic arc formed between carbon elec-

trodes.

Iamp, incandes'cemt. An electric lamp in which the light is produced by the incandescence of a filement of carloon or other poor conductor.

Iaumch, electric. A boat moved by electric power, derived from a storage battery.

Icak'age, electrociat'ic. The gradual dissipation of a charge through imperfect insulation.

Icg, s. The wire or wires in a telephonic circuit by means of which a subscriber is "legged," or placed in circuit with two or more other parties.

Iime, s. A wire connecting two points or stations.

line, s. A wire connecting two points or stations.
line, telegraph'ic, telephon'ic, etc. The
conducting circuit in any system of electric transmission.

line, tel'pher. The conducting wire or cable in

lime, tell'pher. The conducting wire or cable in a telpherage system.

lime, way. A line connecting with way stations.
lime'mam, s. One who puts up and repairs conducting circuits.

limks, fusse. Strips of fusible metal in the form of links, used for safety fuses.

liq'uid, electropol'on, A battery liquid composed of 1 pound of bichromate of potash dissolved in 10 pounds of water, to which have been gradually added 2½ pounds of sulphuric acid.

liquid, strip'ping. A liquid employed to remove a coating of one metal from the surface of another without affecting the latter.

liquor, spent. Liquor in an electro-plating bath

liquor, spent. Liquor in an electro-plating bath which has become weakened by use.

locomo'tive, electric. A locomotive whose

motive power is electricity.

loop, electric. A wire passing from one side of a break in a main circuit and returning to the other side of the break, for the purpose of making connection with a branch telegraph office, placing are lights on a main

circuit, &c.

loxod'rograph, s. A device by which the course of a ship may be electrically recorded on paper through the combined use of magnetism and photography.

magnetom'etry. Measurement of the strength of pagnetic fields.

main, electric. The principal conductor in any electric system.

main, house. A conductor connecting the in-candescent light service of a house with a street main. make, s. The completion of an electric circuit.

make, s. The completion of an electric circuit.
make and break. The alternate closing and

man'-hole of conduit. An opening from the road-hed to an underground conduit, of sufficient size to me'dium, electro-magnetic. Any medium

in which electro-magnetic phenomena occur. The general medium of these phenomena is now believed to be the luminiferous ether.

meg'aloscope, electric. An apparatus for exploring, by aid of an incandescent lamp, the cavities of a body

metalliza'tion, \*. Covering a non-conducting substance with a coating of metal, so as to make it elec-trically conducting and enable it to receive a metallic

coating by electro-plating.

me'ter, current. A galvanometer which measures the current in amperes, as distinguished from one

which measures the energy in watts.

meter, electric. Any apparatus for measuring the quantity of electricity that passes through a circuit

of consumption. meter, watt. A galvanometer which is adapted to measure the energy of a current.

mho, n. A term proposed for the practical unit of conductivity.

mo'tograph, electro. An apparatus devised by Edison in which the friction of a platinum point against a cylinder of moist chalk, in rotation, is decreased

against a cylinder of moist chalk, in rotation, is decreased by the passage of a current of electricity.

met, Faraday's. A net of cotton gauze or similar material, which, when charged with electricity, may be turned inside out without being discharged, its purpose being to demonstrate that the entire charge keeps on the outside of the conductor. (See Fig. 2852.)

modes, electrical. Points on a conductor traversed by an induced oscillatory current where this current is reduced to zero; points in an open circuit, traversed by oscillatory currents whose potential remains constant, while the terminal potentials alternate.

mon-conductors, n.pl. Substances which resist the passage of an electric current through their mass.

ohmn, n. The unit of electric resistance.

ohm, n. The unit of electric resistance.

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ohm, standard. A length of wire whose resist-nce is equal to the ohm, used to standardize resistance coils.

coils.

• hum'meter, n. A galvanometer for measuring by the deflection of a magnetic needle the resistance in any part of an electric circuit.
•• ca'cillator, Tes'la's. A form of dynamo-electric machine invented by Nikola Tesla, in which the armature obtains its motion directly from the piston rod of a steam engine, thus avoiding intermediate machinery and the consequent loss of power through friction.

os'teotome, n. A revolving saw propelled by electricity, used for the surgical cutting of bones.

out'let, n. The places in a building where the fixtures or lamps of an incandescent system are attached.

out'-put. The useful energy given out by a

o'vertones, electric. Vibrations produced in open-circuited conductors by electric resonance, of higher rates than the fundamental tones.

pan, backing. The pan in which the copper shell of an electrotype is placed to receive its backing of type metal.

pane, magic. A sheet of glass covered on one side with pieces of tin foil arranged in some design, and used as a condenser, minute sparks passing between the strips of tip foil.

strips of tin foil.

pantelleg'raphy; fac-simile teleg'raphy. A system for the transmission by telegraph of charta, diagrams, sketches or writing.

path, alternative. The path taken by an impulsive discharge, in preference to another path open to the discharge, as in the case of device of path by a lightning stroke.

mem. electric. A device in which a sheet of

lightning stroke.

pen, electric. A device in which a sheet of paper is perforated with minute holes by a needle driven by an electric motor, and afterwards used as a stencil for obtaining manifold copies.

pen dant, electric. A fixture for the support of an incandescent lamp.



Fig. 2852.—FARADAY'S NET.

pen'dulum, electric. A pendulum which sends electric pulses over a line, by making or breaking

contact at every swing.

periodicity, n. The rate of change in the alternations of an electric current.

phone. n. A usual contraction for Telephone. ho'nogram, s. A record produced by phono-

photochro'nograph, n. An instrument for automatically recording, by electrical means, the transit of a star across the meridian.

pho'tophone, s. An instrument for the transmission of articulate speech along a ray of light instead of along a conducting wire.

pho'tophore, s. An apparatus employed in medical exploration by the sid of a small incandescent

pho to-teleg raphy, n. The reproduction, elec-rically, of pictures, writings, charts, &c. pick'le, n. An acid solution used to cleanse the surfaces of metallic objects which are to be electro-

plated.

plame, proof. A small insulated conductor to
take test charges from charged conductors.

plas'tics, galvam'o. The cold molding or
shaping of metals by the electrotyping method.

plow, s. The sliding contact used in an underground trolley line to take the current from the wire.

plug, s. A piece of metal used to make or break
contact in a narrow break in a circuit.

plug, safety. See Fus. Safery.
plugs, grid. The active material on the plate of a storage battery which fill its perforations.
pock/ets, ar mature. Spaces in an armature to receive the coile.

to receive the coile.

pole changer. A switch or key to reverse the direction of an electric current.

poles, idle. Electrodes in a Crookes tube between which no discharges are taking place.

port'electric, n. An electric carrier, or system of transportation by successive attractions of wire helices on a hollow solmoidal iron car.

post. himdium. A device to connect the tarret.

post, binding. A device to connect the terminals of an electric current with those of an electrical apparatus.

apparatus.

potem'tial, electric. The power of doing electric work. See Electric Potential.

probe, electric. A metallic conductor employed to discover the position of a bullet or other metallic.

substance in the body by closing a circuit or deflecting a galvanometer needle.

a galvanometer needle.

pulse, electric. An electric oscillation.

pune'ture, electro-. The treatment of aneurisms or diseased growths by electrolytic methods.

push, m. A push button, or floor push.

quad, m. A contraction for quadruplex telegraphy.

quan'tity, unit of electric. See COULDMB.

quick'ing solution. A solution of a salt of mercury, in which objects to be electro-plated are dipped after cleansing.

relay', m. An electro-magnet used in telegraphy to throw local batteries into and out of circuit.

to throw local batteries into and out of circuit.

repeat'er, a. A telegraphic device for repeating
signals received.

resid'ual charge. A portion of charge remaining in a condenser after discharge.

residual masg'metisms. Magnetic energy remaining in the core of an electro-magnet after the
magnetizing circuit is broken.

resist'amee, a. Some substance placed in a circuit to resist the flow of the current; the check to complete conduction in all substances.

cuit to resist the flow of the current; the check to com-plete conduction in all substances. resistance, unit of. See Ohm. res'onamee, electric. The setting up of pulses in open circuited conductors, by the influence of pulses in neighboring conductors. retards'tiom, s. A check to the speed of tele-graphic signalling, caused by induction. returns', s. pl. Conductors through which cur-rents flow back to their source, after passing through an electric annaratus.

an electric apparatus.

revers'er, current. A switch to reverse the direction of a current.

rection of a current.

The ostat, n. An adjustable resistance.

Theostat, water. A rheostat whose resistance
made by a specified mass of water.

Fing. ampere. The turns of wire in an electric

is made by a specific mass of the fing, ampere. The turns of wire in an electric balance for the measurement of currents.

Fise, s. In interior house-wiring, a vertical leading of a conductor from one floor to another.

Fock'er, brush. A device for shifting the position of the brushes on a commutator.

Fod, elutch. A clutch in an arc lamp to seize the lamp and and prevent its fall, during feeding, beyond

a fixed point

rod, discharging. A jointed rod used in discharging Leyden jars or condensers.
rod, lamp. A rod for holding the carbons in arc

charging Leyden jars or condensers.

rod, lamp. A rod for holding the carbons in arc lamps.

rod, lightning. A metal rod placed on the outside of an edifice to protect it from lightning, by conducting the current to the ground.

rods, buss. Heavy copper rods to which all the terminals of a dynamo generator are connected, and from which the current passes over the feeders to the conducting wires; some as Bussans.

rotation, electro-magmetic. A rotation obtained by the attractions and repulsions of an electromagnet, as in an electric motor.

sad'dlers, telegraph'ic. Brackets placed on telegraph poles for the support of the insulators.

safety catch. See Carch, Safety.

St. Elmo's fire. See Fire, St. Elmo's.

saturation, magmetic. The maximum degree of magnetism which any substance will accept.

screen, electric. A closed conductor placed over a body to protect it from the induction of electrostatic fields.

screen, magnetic. A box of thick iron placed round a magnet to protect it from the action of ex-

search'-light, electric. An arc light placed to the focus of a lens or mirror to obtain a powerful in the focus of a lens or mirror to obtain a powerful beam of parallel rays for exploring the surrounding

self-induc'tion, s. The inductive effect produced by a current in its own conductor, or on itself.
send'er, zinc. A device to send a momentary reverse current into a telegraph wire, after each signal, to counteract the retardation in the line caused by the

sep'srator, s. A sheet of ebonite, or other insu-lator, placed between the plates of a storage battery, in such a manner as to avoid short circuiting, while per-

sucn a manner as to avoid short circuiting, while permitting free circulation of the liquid.

se'ries, comtact. A series of metals so arranged that each becomes positively electrified by contact with the one that follows it.

ser'vice, street. That portion of an incandescent light circuit which intervenes between the main

cent fight circuit which and the service cut-out.

serv'ing, cable. The covering of hemp or jute around an insulated cable to preserve it from the preserve.

sure of the wire armor.

sheath, protective. A device to prevent con nection between the primary and secondary circuit of a transformer

short-circuit, v. To establish a short circuit, or send a current through a shunt

shumt, s. An additional path established for the assage of a current or discharge.
shumt, v. To establish a short circuit or additional

shunt'-out, n. A device providing a short circuit

smunt'-dut, w. A device providing assort circuit between terminals, so that an electro-receptive device may be removed without breaking the circuit sig'mallimg, curb. A system for avoiding the effects of retardation in a telegraph cable, by rapidly discharging it before making the next signal.

sig'nalling, double-current. Signally by

means of alternating currents.

si'phon, electric. A siphon in which the stoppage of flow, due to gradual air accumulation, is prevented by electrical means.

vented by electrical means.

skin, farradization of. Treatment of the skin
by a faradic current.

sleeve, insulating. A tube of insulating material, such as prepared paper, for covering a splice in

an insulated conductor.

sled, n. The sliding contact made with an underground wire to convey the current to a car motor in an underground electric railway.

slide, resistance. A rheostat in which the

sinde, resistance. A rheostat in which the resisting coils may be placed in, or removed from, the circuit by a sliding contact or key, soaking-in. A term employed in telegraphy to represent the gradual penetration of an electric charge by a neighboring dielectric.

by a neignboring detectric.

soak imp-out. The reverse of soaking-in (q, v).

sol'moid core. A soft iron core placed within a solmoid, or circular cylindrical coil of wire, and magnetized by the current passing through the solmoid.

solution, battery. The exciting liquid of a

sound'er, Morse telegraphic. An electro-magnet used in the telegraph to produce sounds by the striking movement of a lever attached to the armature

of the magnet.

sound'er, repeat'ing. A sounder which repeats a telegraphic mesage into another circuit.

source, electric. Any arrangement adapted to maintain an electro-motive force or difference of poten-

spark, n. The flash of light produced by the

spark, a. The man of light produced by the passage of an electric discharge through air.

spark'ing dis'tamee. The distance at which sparks will pass through an air space.

spi'der, ar'mature. A light frame-work with radial arms for holding the armature core in proper position in a dynamo-electric machine.

position in a dynamo-electric machine.

spi'der, driving. Radial arms connected with
the armature of a dynamo, and keyed to the shaft to
act as a driving wheel for the armature.

spin, magnetic. A term sometimes employed
for magnetic field, indicating the belief that magnetism
is due to a spin or rotation in the ether.

spi'ral, primary and secondary. The
primary and secondary. The
primary and secondary coils of a transformer.

spring'-jack, a. A device for inserting a loop
in a main electric circuit.

starformer. A term applied to commutator

spring -jack, a. A device for inserting a loop in a main electric circuit.

stag'gering. A term applied to commutator brushes, in which one brush is placed slightly in advance of another so as to bridge over a break.

stand'ard, dynamo. A support for the bear-

manual ard, dynamo. A support for the bearings of a dynamo.

state, electrotom'ic. A state supposed by Faraday to exist in a conductor, by which differences of potential are produced in moving it through a magnetic field.

state, cath'electroton'ic. The increased functional activity of a nerve in the neighborhood of the cathode or negative terminal of an electric source to whose action it is subjected.

sterlize'tion, electric. The destroying of the germs in a solution by the action of electric currents.

stick'ing, n. The failure of the relay armature in a telegraphic circuit to leave the magnet on the cessation of the current.

stopping-off. n. A process for plating an

stopping-off, s. A process for plating an electro-plated article with another metal over part of its surface. storm, electric. A condition of the atmosphere in which it contains an unusual quantity of free

phere in which it contains an unusual quantity of free electricity.

storms, magnetic. Irregular conditions in the distribution of terrestrial magnetism by which the magnetic dip, declination and intensity are affected.

strains, dielecttrice. The strained condition in which the molecules of glass or other dielectric used as a condenser are placed by its charging; the deformation of a body under the influence of electrical stress.

strength, field. The intensity of magnetism in advance.

stress, dielec'tric. A force producing strain

or deformation in a dielectric.

strise, electric. Parallel streaked bands, of spaces alternately dark and light, caused in tubes of low vacuum by the passage of rapidly alternating currents strip, safety. A strip or bare fusible metal used

strip, sarety. A strip or bare rushie metal used as a safety fuse.

stripping, n. Dissolving the coating of metal from a plated article.

struck, n. A surface which has been covered with a film of nickel in a bath with a strong current, the coating being continued with a weaker current.

sul'phating, n. The formation of a coating of nert sulphate of lead on the plates of a storage battery, thus decreasing its action.

sun'stroke. electric. Effects like those of sunstroke caused by long exposure to the intense light and heat of a voltaic arc.

surg'ings, electric. Oscillations set up in a charged conductor that is being rapidly discharged.

switch, n. Any device for changing or opening and shutting electric circuits. (See Fig. 2863.)

switch-board. n. A board provided with switches for the opening, closing, or interchanging of a current.

tach'yphore, m. Same as PORTELEGIRIC (q. v.). Digitized by GOOSIG

tail'ings, s. False markings in automatic telegraphy, due to retardations; the continued running of a current out of a line at the receiving end after the sending current is broken.

talk, eross. Indistinctness in telephonic speech

ing current is broken.

talk. eross. Indistinctness in telephonic speech due to the recoption, from contact or induction, of speech sent over neighboring circuits.

tank. emble. A tank in which a section of a cable is placed for testing. It is filled with water, sometimes under pressure like that of the ocean bottom.

teas'er, s. A coil of fine wire on the field magnets of a dynamo, under the series coil, and connected as a chart eross the main circuit, its names that a

shunt across the main circuit; its purpose being to maintain constant electro-motive force under variations

tee, lead. A tee-shaped tube of lead employed to take a branch joint from a main conductor to a service line.

telau'tograph, s. A device for the fac-simile reproduction of handwriting by telegraphy.

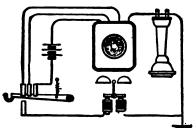


Fig. 2853.—AUTOMATIC TELEPHONE SWITCH

telemieter, n. A device by which the pressure on a gauge, the reading of a thermometer, etc., can be indicated and recorded at a distance. telephote, n. A method for the telegraphic transmission of pictures through the action of light on

estenum.

telephotog raphy, n. Facrimile reproduction by means of dots and lines sent over a line conveying a constant current, whose intensity is varied by an instrument containing a selenium resistance.

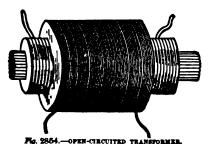
theat'rophone, a. A telephonic system of transmission between theaters and subscribers by means of stor machine, the machine being set in operation by dropping a piece of money in the slot.—A large phonograph, calculated to reproduce the sounds of an operatic or theatrical performance, so as to be heard by an actions.

tick'er, stock. A telegraphic instrument for utomatically sending stock quotations to any number of subscribers.

of subscribers.

Serque, s. That moment of the force applied to
a dynamo or other machine, which sets it in rotation;
or which sets the armature of a generator or motor in

tramsform'er, or convert'er, a. An induc-tion coil used in systems of electric distribution by means of alternating currents; an inversion of the Rahmkorff induction coil.



transmitter, w. The sending instrument in a

transment ter, s. The sending instrument in a thermship system. Spelley, s. A rolling wheel which moves in contact with an overhead wire and carries off the current required to drive an electric car motor.

tube, spark. A vacuum tube which resists the

high.

tube, stratification. An exhausted glass tube through which the current passes in stratification, or alternate light or dark strise.

tubes, wacumm. Glass tubes partly exhausted of sir, through which electric discharges are sent to produce luminous effects.

turm, amspere. A single turn in a coil of wire through which one ampere passes.

turms, deend. The number of turns made by a self-exciting dynamo before it becomes excited.

utits, ab'solute. A system of units based for unit of length on the centimeter, for unit of mass on the gramme, and for unit of time on the second.

units, electrostat'ie. Units founded upon the attraction and repulsion of unit charges of electricity asparated by unit distance.

time, and mass to which all other units may be referred.

units, magmet'ie. Units based on the force exerted upon each other by two magnet poles.

units, prac'tical. Multiples or fractions of the absolute units, adopted for their greater convenience.

v'trite, m. An insulating substance made of glass.

voit, m. The practical unit of electro-motive force.

voitage, m. The difference of potential or electromotive force in any part of a circuit.

voitage, ter'minal. The electro-motive force at the terminals of a circuit.

voitaism, m. The production of electricity by means of voitaic couples.

voit'ameter, m. A cell containing an electrolyte and employed to measure the quantity of current passing by the amount of chemical decomposition caused in a given time.

voit-am'meter, m. An apparatus employed for measuring difference of potential.

watt, m. The unit of electric power.

watt'-meter, m. A galvanometer adapted to measure at once the strength of current and the difference of potential.

ence of potential.

ence of potential.

wheel, trolley. See Trolley. Magnetic. A
term to indicate the circular direction taken by lines
of magnetic force which surround a conductor through

of magnetic force which surround a conductor through which a current is passing.

wind, electric. The stream of air particles given off at points of a charged conductor.

wind/ing, ampere. Same as Tuan, Ampere.

wire, air-lime. A circuit formed by air-strung wires, in distinction to underground wires.

wire, ealling. A telephonic wire through which a subscriber communicates with the central

wire, line. The wire which connects telegraphic stations with one another.

wire, trolley. The wire from which the trolley heel takes the current.
wires, buss. Another name for Bussans (q. v.).
wires, dead. Disused or abandoned electric

wires, leading-in. The wires which carry the current through the electric lamp.

wires, phantom. The additional circuits obtained in a single wire by the use of multiplex telegraphs.

wires, top. The wires which carry the current from the feeders at the pole to a neighboring point on a trolley wire.

rolley wire.

wiring, w. The wires or conductors used in any system for the distribution of electricity.

work, unit of electric. The joule (q. r.).

worm'ing, cable. A central core of hemp or jute around which the conductors are wrapped in a cable consisting of a number of conducting wires.

writing, electrolytic. Written characters impressed on cloths by the electrolytic decomposition of a dyeing substance with which they have been treated.

yoke, multiple-pair brush. A device used to hold a number of pairs of brushes in a dynamo so that they can be readily moved on the commutator.

york, single brush. A term sometimes employed for a single brush rocker.

Electrical Furification of Sewiage. The first efforts to purify sewage were made in 1762, since which date the question of the best method of effecting this bas occupied the attention of scientific men. Many methods have been tried, with a certain amount of Electrical Purification of Sew'age. The first efforts to purify sewage were made in 1762, since which date the question of the best method of effecting this has occupied the attention of scientific men. Many methods have been tried, with a certain amount of success, though none of them fully satisfactory; and a few years ago Mr. Webster, an English scientist, began to experiment upon the effect of currents of electricity on sewage matter. His experiments proved so encouraging that he obtained permission from the authorities to set up an experimental plant at the Croseness outfail of the London sewage system. He erected here a plant large enough to act on a million gallons a day. The system consists in a long brick or cement shoot or conduit, suspended in which are a number of cast-iron plates placed lengthwise, so that the sewage flow passes between them. Half these plates are connected to the positive and half to the negative poles of a dynamo which yields a large current of low potential. As the sewage flows slowly between the iron plates, the electricurrent acts on it, the visible effect being the giving off of bubbles of gas, and the gathering of a quantity of muddy matter on the top of the liquid. Some portion of the iron plate connected with the positive pole is dissolved, and powerful oxidizing bodies are formed in the liquid, which rapidly convert the dangerous nitrogenous substances into harmless compounds. Complicated chemical changes take place, which are not yet fully understood. After flowing through the shoots, the liquid passes into reservoirs, where it is left for two or three hours. The mud settles to the bottom, and the liquid is pumped into the river, it being now perfectly harmless. It has been found, by using 27 horse-power of electrical energy, that a million gallons of sewage can be purified in 24 hours. The amount of iron dissolved is about two grains per gallon of sewage; or, for purifying a million gallons daily, about 70 tons per year. Plates cast direct from blast furnaces are pure e

umits, fundamen'tal. Those units of length, time, and mass to which all other units may be referred.

units, magnet'ic. Units based on the force exerted upon each other by two magnet poles.

units, prac'tical. Multiples or fractions of the absolute units, adopted for their greater convenience.

v'itrite, m. An insulating substance made or glass.

volt, m. The practical unit of electro-motive force.

voltage, m. The difference of potential or electromotive force in any part of a circuit.

voltage, ter'minal. The electro-motive force at the terminals of a circuit.

volta'ie cell. See Cell, Voltaic.

volta'ie cell. See Cell, Voltaic.

volta'ie or voltaic couples. Munich Exhibition in 1882, continuous currents of 2,000 volts were employed. But great difficulties with the working of the dynamos and motors stood in the way of rapid progress in this direction, the dynamos of that day being unable to withstand the severe strain put upon them. The distance over which it was sought to transmit power was 37 miles, the loss of power in this distance being 50 per cent. Since that period the introduction of alternating currents of high tension, the improvements in dynamos for the production of such currents the invention of transformers and the experience distance being 50 per cent. Since that period the introduction of alternating currents of high tension, the improvements in dynamos for the production of such currents, the invention of transformers, and the experience gained in the insulation of conductors have overcome these difficulties to a striking degree, and made the conomical transmission of power over long distances practical and satisfactory. The first clear demonstration of this was made at the electrical exhibition at Frankfort-on-the-Main. At Lauffen, a village 107 miles from Frankfort, the river Neckar yields 1,600 horse-power, of which 600 was employed in manufacturing, leaving 1,000 unemployed. It was decided to transmit a portion of this power to Frankfort and in this way test the efficiency of this process. The method adopted was the only one in which success could have been attained. It was proposed to transmit the current at a pressure of 15,000 volts, and, as it was not an easy matter to construct dynamos that could yield electricity at so high a pressure, the current was generated at 50 volts, transformed in Lauffen to 15,000 volts, and in Frankfort transformed down again to 100 volts for use in motors, lamps, etc. The wire was very carefully insulated, the rotary or multiphase current was undestanced instead of the ordinary alternating current, and the highly encouraging result produced of the transmission of 74 per cent. of the generated current. (The term rotary, rotating, multiphase, or polyphase current is applied to one that results from the combination of a number of alternating currents, whose phases of alternation do not coincide. In practics, three alternating currents are combined.) The success of this experiment has led to a number of large transmission plants. In Europe the most important one is at the city of 8t. Etienue, France, where there is a very considerable water power. A highly successful experiment was that made at Sucramento, California, in 1895, the electricity generated by the falls of the American river at Folsom the water above the falls is diverted into a canal 250 feet wide and 12 deep, and carried to great turbines placed at a great depth beneath the surface at a point below the falls. These turbines each develop 5,000 horse-power, the whole plant being calculated to yield 100,000 horse-power. They are used to run immense dynamos, each of 5,000 horse-power, developing about 2,000 volts. The power developed is largely employed at Niagara, but a considerable portion of it is transmitted to Buffalo, where it is used for street railway motors and other purposes. Three of these great generators are now (1897) in place, and the company is preparing to install seven more of the same power. When the necessary extensions have been made, the pit will be 430 feet long and 185 feet deep, and the plant will have a capacity of 60,000 horse-power, or half the total capacity of the canal.

canal.

Electrical U'mits. There are two series of units known in electrical science, the absolute and practical. Absolute units are based on the centimeter for the unit of length, the gramme for the unit of length, the gramme for the unit of mass, and the second for the unit of time, and are generally termed the centimeter-gramme-second (C. G. S.) units. The practical units are multiples or fractions of the above, and have been introduced because the absolute units are debased on small or too large for actual use. The practiand nave been introduced because the absolute units are either too small or too large for actual use. The practical units have been named from famous electricians, as Ampère, Coulomb, Faraday, Ohm, &c., and are the following: The supere is the practical unit of electric current, and is such a current or transmission of electricity as would pass with an electro-motive force of one add themselve a circuit with a resistance in one of the course. tricity as would pass with an electro-motive force of one eolt through a circuit with a resistance of one ohm; or a current of strength sufficient to deposit .005084 grain of copper per second. If comparison be made with a stream of water, the ampere is the unit rate of flow, or the number of cubic inches of flow per second. That which causes the flow is the pressure or head of water, equivalent to the electro-motive force, while the resistance is equivalent to the friction of the water, which varies with varying circumstances. The coulomb is the unit of slectric quantity, or a fixed amount of the thing unit of electric quantity, or a fixed amount of the thing

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called electricity, and is measured by the quantity of electricity that would pass in a second in a circuit whose resistance is one ohm and electro-motive force one volt. electricity that would pass in a second in a circuit whose resistance is one ohm and electro-motive force one volt. It is thus equivalent to an ampere, but differs in representing quantity, while the ampere represents energy, or current flow. A farad is the practical unit of electric capacity, and represents such a capacity of a conductor or condenser that it requires a coulomb of electricity to produce in it one volt of electro-motive force or difference of potential. Electricity acts as if it were a very compressible gas, so that the quantity required to fill any condenser is not always the same, but depends on the electro-motive force with which it enters the condenser. A heavy is the practical unit of self-induction, or the counter current which a conductor induces in itself when making and breaking. A joule is the unit of heat developed by the passage of a current of one ampere through a resistance. It represents a resistance capable of limiting the flow of electricity under one volt of electro-motive force to a current of one ampere or a quantity of one coulomb per second. It is equivalent to a definite retarding force of friction in a stream of water. A solt is the practical unit of electro-motive force, and definite retarding force of friction in a stream of water. A rolt is the practical unit of electro-motive force, and is a force capable of setting up a current of one ampere against a resistance of one volt; or of charging a condenser of one faract capacity with one coulomb of electricity. A reat is the unit of electric power, and is equivalent to a volt-ampere, or the combination of current and pressure. It represents the power developed when 44 25 foot pounds of work are done per minute. As a volt-ampere equals a wat, so a volt-coulomb equals a joule. The absolute of current is equal to 10 amperes; of quantity to 10 coulombe; of capacity to 1,000,000,000 farads; of resistance to reservates of conditions and of electromotive force to reservate volts.

Electifically, adv. In the manner of electricity, or by means of it.

Elec'trically, adv. In the manner of electricity, or by means of it.

Elec'tricalmess, \*\*. Quality of being electrical.

Electrician, \*\*. A person who studies or is versed in the science of electricity.

Electricity, \*\*. [Fr. électricité; Sp. electricidád; R. elettricita, from Lat. electram; Gr. elektron, amber.]

(Physics.) One of the great forces of nature; also that branch of physical science which has spring from the inpertional physical science which has spring from the inpertional physical science. that branch of physical science which has spring from the investigation of phenomena depending on this particular force. The term is derived from the Greek elektron, amber, in which substance the property of attracting light bodies after friction was first observed. The fact that certain bodies, when rubbed, acquire the power of attracting light particles of matter, was known to the ancients. Thales, of Miletus, developed this property in amber 600 years before the Christian era, and concluded that the substance was animated by an unnown surface along. power of attracting light particles of matter, was known to the ancients. Thales, of Miletus, developed this property in amber 600 years before the Christian era, and concluded that the substance was animated by an unknown spirit or element. Theophrastus, some centuries later, observed the same attractive property in a crystal termed the lyncurium, now supposed to be the tourmaline. Pliny and other naturalists refer to the attractive power of amber as something well known, but say nothing to lead us to suppose that their knowledge of electrical phenomena went beyond the discoveries of the old philosophers. The first attempt toward a generalization of electrical phenomena was made toward the close of the 16th century, by Dr. Wm. Gilbert, in a treatise on the magnet. In the following century, Dr. Wall, Boyle, Newton and others, accumulated many new facts; but these were not of a nature to lead to the discovery of general principles. The electric spark was first noticed by Dr. Wall. In the early part of the 18th century, Dr. Hawksbee made many electrical experiments, from which he ascertained that glass is a substance which can be readily electrified by friction; and that some other bodies, especially metals, treated in the same manner, appeared to manifest no electrical power whatever. In 1728, Mr. Stephen Grey, a pensioner at the Charter House, performed a number of experiments, which led to the discovery of electrical conductors, and to the classification of bodies into conductors and uonconductors. The conclusions arrived at by Grey were firmly established by the researches of Dufay, a French philosopher, to whom we are indebted for the discovery that there are two opposite states of electrical excitation, in which forces are developed attractive of each other. In 1745 and 1746, numerous attempts were made to confirm electricity in glass vessels containing water or mecury; and, almost simultaneously, Von Kleist, in Germany, and Cunssus, in Holland, became acquainted with the disagreeable effects of the electri

on the magnetic needle, and founded the science, soon afterward fully developed by Ampère, of electro-magnetism (q. v.). Faraday, in his "Experimental Besearche in Electricity," published between 1830 and 1840, described the phenomens of volta-electric and magneto-electric induction, and thus established the beautiful science of magneto-electricity (q. v.). Seebeck, of Berlin, found that an electric current may be generated by the unequal effect of heat on different metals in contact, and to the new branch of science which sprung from this observation he gave the name thermo-electricity (q. v.). These are but a few of the many experiments and discoveries made in the first half of the nineteenth century, coveries made in the first half of the nineteenth century, during which a large number of able physicists devoted themselves to this subject. The peculiar power called electricity is known to us only by its effects, and such terms as electric current, and electric fissid are to be understood as figurative. Many theories respecting electricity have been advanced for the purpose of explaining electrical phenomena. That of Dufay and Symmer supposes electricity to be an infinitely attenuated fluid pervading all bodies, and composed of two primary elements possessing distinct and opposite properties. These elements, called vitreous and resisious electricities, are supposed to neutralize each other when combined, These elements, called vitrous and resinous electricities, are supposed to neutralize each other when combined, electrical repose being the result. When, however, a disunion of these elements takes places, each becomes active. In accordance with this theory, electrical excitation consists in a separation and abstraction of one of the elements, leaving the other in excess or uncompensated. The theory started by Franklin supposes the existence of a single homogeneous imponderable fluid of extreme tenuity and clasticity, in a state of equable distribution throughout the material world. This fluid is assumed to be resulsive of its own narticles, but of extreme tenuity and clasticity, in a state of equable distribution throughout the material world. This fluid is assumed to be repulsive of its own particles, but attractive of all other matter. When distributed in bodies, in quantities proportionate to their capacities or attraction for it, such bodies are said to be in their natural state. When we increase or diminish the natural quantity of electricity in any substance, excitation is the result, and the substance, if over-charged, is said to be electrified positively, or, if under-charged, is said to be electrified positively, or, if under-charged, is said to be electrified positively, or, if under-charged, is said to be electrified positively, or, if under-charged, is said to be electrified positively, or, if under-charged, is said to be electrified positively based; but even these are now found to be inadequate for the elucidation of electrical phenomena. Adopting the views of Faraday, scientific men of all nations now recognize two kinds of electrical force, distinguished by the terms positive and seguites, but do not assume the existence of any peculiar kind of matter to which the term electric fisid may be applied. By frictional electricity we distinguish that portion of this subject which relates to the phenomena of ordinary electricity from those comparatively new sciences referring to the phenomena attendant on electrical excitation by chemical action, magnetism and heat. The fundamental preferious of electricity are electrical excitation by chemical action, magnetism and heat. The fundamental principles of electricity are illustrated by the electric pendulum. A glass tube bent

at right angles, so as to project hori-zontally, is placed on a convenient on a convenient stand. On the hook in which its upper in which its upper end terminates, a cocoon thread is hung, to the end of which a pith-ball is attached. The ball is thus doubly insulated by the glass and the silk thread. If a tube of glass be rubled by a dry silk handkerchief, and brought near the ball, the latter is at first briskly atfirst briskly at-tracted, and then as



Fig. 922.- ELECTRIC PENDULUM.

ball, the latter is at first briskly attracted, and then as briskly repelled; and if the tube be then moved toward the ball, it moves off, keeping at the same distance from it. The ball being so affected, or charged, as it is called, a rod of shellac or of sealing-wax, after being rubbed with flannel, attracts it, if possible, more briskly than before, and again sends it off exactly as the glass had done. If the glass tube be now again taken up and rubbed a second time, if necessary, the ball will act toward it as it did toward the sealing-wax. The same series of attractions and repulsions would have taken place if we had begun with the sealing-wax instead of the glass tube. We interpret this experiment in the following way: When glass is rubbed with silk, it becomes invested with a peculiar property, which gives evidence of its existence by attracting a pith-ball or any other light substance; and after contact has communicated this property to the ball or other matter, repulsion takes place between them. In consequence of the ball being suspended by an insulating thread, it retains the property of rubbed glass thus given it; and although then repelled by a body having the same property, it is powerfully attracted by rubbed sealing-wax. After contact again takee place, and the property of rubbed sealing-wax has replaced that of rubbed glass in the ball, the two similarly affected bodies again repel; and the same series of attractions and repulsions will continue if we present the glass and the wax alternately to the ball. It is customary to call the electricity manifested by glass positive or ritreoma, and that by sealing-wax and bodies of the same class, sepative or revisions. The kind of electricity resulting from friction appears, however, to depend on some peculiar

condition of contact between the rubbed surfaces; thus, smooth glass rubbed with silk or wool becomes positive, but when roughened by sand or emery it acquires, under the same circumstances, a negative charge. Again, when silk is rubbed with glass it becomes negative; but when rubbed with sealing-wax, positive. Both kinds of electricity are produced in every case of electrical excitation, the rubber and the rubbed body always assuming opposite states. There are many substances which cannot be excited in the ordinary way, though they may be electrified by placing them in communication with an excited electric. These are termed anelectrics, or more properly conductors, from their property of conducting the electric force. If an electrified pith ball, suspended by a thread, be touched by an electric—a stick of dry sealing-wax, for instance—its attractive power will not be in any sensible degree impaired; but if it be touched with any conductor in communication with the ground, it will instantly lose its electrical charge. It is therefore evident that electrics are non-conductors of instal-ators, and that anelectrics are non-conductors of instal-ators, and that the difference between the two classes is only one of degree, not of kind; the very best conductors is heliac, sulphur, glass, silk, and dry gas, the worst. Electrical discharges take place silently and without disturbance in good conductors of sufficient size; but if the conductor be very small, or imperfect from its nature, or be given a very intense charge, it is often destroyed with violence when a break is made in a conductor employed in effecting the discharge takes place across the intervening air, provided the ends of the conductor be not too distant; but it is now well established that the electric discharge will not take place through an absolute vacuum. The electrical spar's itself presents many points of interest in the modifications to which it is liable. The time of transit of the electrical isoduction, may be thus examined:—Let two small cylin with positive electricity, it will induce a negative state in the nearer portions of the other, and a positive state in the more remote parts. The precise condition of the second conductor cannot be properly investigated without the aid of the most delicate electroscopes; but with a suspended pith ball the attractive power of its distant extremity may be readily detected. On removing the electrified conductor, the second conductor at once loses its attractive power. For experiments on electrical attraction and repulsion, a large glass tube will be found very useful. To excite it, the rough side of oiled silk (oiled only on one side) rubbed over a composition consisting of an amalgam of mercury, lead (or zinc) and tin, with a little grease, may be used, or in the absence of such a rubber, a soft dry silk handkerchief may be employed. For external experimentation, however, and to exhibit the mechanical, luminous and heating effects of the electrical discharge, we require the electrical machine. The first idea of such a machine originated with the celebrated Otto Guericke, of Magdeburg, who mounted a globe of brimstone on an axis and caused it to revolve rapidly against the palm of his hand. In the electrical machines now in use, the electric to be excited is either a hollow cylinder or a circular plate of glass. The cylindrical machine is more simple in construction and less liable to fracture.

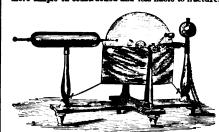


Fig. 923.—PLATE ELECTRICAL MACHINE.

The plate machine consists of a thick plate of glass The plate machine consists of a thick plate of glass mounted on a horizontal axis and turned by a crank. At each end there is a glass standard, the one summunted by a brass ball called the negative conductor, the other by a long cylinder of brass with rounded ends, called the prime or positive conductor. From the standard of the negative conductor project two brass strips, in the form of a clamp, which hold the rubblers against the glass plate. These rubbers are pieces of wash leather or woollen cloth covered with the amalgam above described. Connected with the nrime conductor. above described. Connected with the prime conductor are metallic points, nearly in contact with the surface of the glass, which serve to collect its electricity. The

lower half of the plate is covered with flaps of oiled silk which confine the electricity until it is collected by the points of the prime conductor. Besides the cylindrical and plate machines, there are several machines for collecting electricity, for which see: LEYDEN JAE; GALVANIC BATTERY, HYDRO-ELECTRIC MACHINE; INDUCTION COLL: The electrophorus (q. v.) displays a method of developing a practically unlimited amount of electricity by means of induction and convection which has been applied in a number of rotary machines, of which the first form was Nicholson's "revolving doubler." Thomas's "replenisher" is perhaps the simplest of these machines. It has a revolving vertical shaft of ebonite which bears, at the ends of a horizontal cross-piece of the same material, two metal places called carriers, which rotate between two insulated metal inductors. which rotate between two insulated metal inductors. These carriers when in one position come into contact with delicate springs attached to the neighboring inductors, and in a second position with springs connected by a metallic arc which is quite insulated from the conductors. In the operation of this machine each carrier, in a complete revolution, becomes once positively and once negatively charged, through a successive transfer of charge from one carrier to the other and a yielding of these charges to the inductors. As a result, the inductors increase steadily in positive and negative charges until they gain their highest degree of potential, or electric charge. Of late years the frictional machines have been quite replaced by what are called influence succhises, in which these principles of induction and convection are applied. Various such machines have been produced, of which the Wimshurst is the most

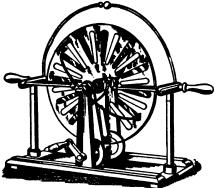


Fig. 2855.-WIMSHURST ELECTRICAL MACHINE.

satisfactory. In this there are two circular glass plates satisfactory. In this there are two circular glass plates, mounted on a common spindle, and capable of being rotated with equal speed in opposite directions. On the outer surface of each plate are from 12 to 16 strips of sheet metal, at equal distances apart and radiating outward. The main conductors stand on glass or vulcanite pillars at the ends of the horizontal diameters of the vertically mounted plates. In front is fixed a diagonal conductor, called the "neutralixing rod," and behind is fixed a similar rod at right angles to the former. These rods terminate at each end in a small metal brush which touches the metal strips as they pass. By this means conductor, tailed the "neutralining rot, and benind is fixed a similar rod at right angles to the former. These rods terminate at each end in a small metal brush which touches the metal strips as they pass. By this means each strips as it touches the brush, soon after passing the collecting combs of the conductors, is brought into metallic connection with the strip opposite it on the plate. If now the conductors be at different potentials, or carry opposite charges, each carrier, as it leaves the neutralising rod, will acquire a charge, negative or positive, as it may be nearer the negatively or positively charged conductor. But each carrier on one plate will act inductively to the carriers on the other plate, and thus add to the inductive effect of the main conductors. Thus the positive conductor is being fed by the positive charges brought by the strips on the upper half of the one plate and the lower half of the other, and the negative conductor by the opposite strips. These conductors are provided with arms which reach toward each other and between whose knobs the accumulated electricity can discharge itself. Electricity of very high potential is thus accumulated and sparks from 3 to 5 inches in length can be easily produced.—Theories of Electricity. We have seen that positive and negative electrification must always co-exist, it being impossible to generate a degree of negative charge, This fact lef Faraday to his conception of lines of electric force traversing the dielectric medium, or electric field—the non-conducting substance surrounding an electrified body. In and through this field the electric force traversing the dielectric force forms what is known as a sake of force. Each such tube of force has two ends, one resting perpendicularly on a positively charged conductor and the other perpendicularly on a negatively charged sube of force. Each such tube of force has two ends, one resting perpendicularly on a positively charged conductor and the other perpendicularly on a negatively charged conductor. According to the view now generally accepted, electric induction takes place along these tubes of force, so that the negative charge on the terminal area becomes exactly equal to the positive charge on the area from which the tube springs. The electric charge is always on the surface of the conductor. If this be a hollow body, no trace of charge can be found

within its interior. This is probably an effect of induction, since all portions of the inner surface being of the same potential and the lines of force emanating from them of the same reading, they must act to neutralize each other. If the body be charged positively, it will resist negative induction through any part of its interior and the lines of force emanate only from the servicer surface needs of the property of the surface. it will resist negative induction through any part of its interior and the lines of force emanate only from its exterior surface, passing outward to surfaces capable of accepting a negative charge. In current electricity this same outward action probably operates to keep the current flow fixed on the exterior of the conducting wire; and the belief is now entertained, from theoretical considerations, that the electrical current does not pass along the metallic conductor at all, but through the dielectric layer inmediately surrounding it. These various views and studies have led to new conceptions concerning the nature of electricity; and though we still talk of the electric fluid, of the separation of the electrical charges, and the flow of one or both to earth, of the current and rate of flow, of charge and discharge, these terms are used merely for convenience and not as indicating accepted theories. Electricity, as now looked upon, is not a substance but a form of energy, and its activities are transformations occurring in the energies of matter. Electrification involves the loss of energy from one substance, or its transfer to another under a different form, the result being a difference of conditions between the energy of the affected body and that of neighboring ones, or between parts of the same body, with a strong natural tendency to overcome this difference of condition (or of potential), and restore the disturbed equilibrium of energy. To this effort at equilibration all the phenomena of electric discharge and current flow are due. The study of electric discharge and current flow are due. The study of electric denergy has led more and more from the gross to the more rarefied conditions of matter, and it is now to the more rarefled conditions of matter, and it is now to overcome this difference of condition (or of potential), and restore the disturbed equilibrium of energy. To this effort at equilibration all the phenomena of electric discharge and current flow are due. The study of electric energy has led more and more from the groes to the more rarefled conditions of matter, and it is now considered established that the true field of electrical action is not in ordinary matter, but in the ether associated with it. Theoretical considerations of this kind led Clerk Maxwell to his interesting and now well-established hypothesis that light and electricity are closely similar phenomena, or that light is an electromagnetic phenomenon. He considered that light and electricity were both due to certain motions of the ether—light being due to oscillations, and electricity and magnetism to rotations, of the ethereal particles. Later studies of this subject render it probable that electricity and magnetism, as well as light and radiant heat, are due to vibrations or oscillations in the ether. Various hypotheses in this direction have been offered, some holding it possible that ether and electricity are identical; negative electrification arising from an excess, positive from a deficiency, of ether. Others believe that electrostatic phenomena are due to a strain or deformation of the ether; others that electro-motive force arises from differences of ether pressure; others that an electric current consists of a real motion or translation of the ether through a conductor. Still other theories have been advanced, and it seems highly probable from recent investigations that light and electro-magnetic radiations are the same in character and origin and are propagated with the same velocity through free ether. Through fixed ether (that between the molecules of substances), the speed varies with different substances. These theoretical views have been largely confirmed by the remarkable experiments of the late Dr. Hertz, of Carlsruhe, who showed that when an impulsive discharge is passing thr of plant or animal, is the result of complete deprivation of electrical stimulus. This theory contemplates electricity as purely a force acting upon matter, not matter itself—not even an imponderable ethereal fluid. Its advocacy is based in part upon the general theory of duality in all nature—electricity being the universal positive, and matter, in its various forms, the universal positive, and matter, in its various forms, the universal negative; the phenomena of life and death being due to the positive action of the life-giving principle, proceeding from the sun, and its ultimate negation through the influence of the earth—the great magnet which eventually reclaims every living organism that springs from its bosom.

Direct Production of Power.—Various efforts have been made of recent years to produce electricity directly from carbon, without the great loss which arises from the intermediate production of heat. It is well known that many fishes and other ocean animals-yield light without heat, thus showing that this is a possible result of nature's conditions, and one worth striving for by man. Edison and other electricians have taken this subject into consideration, and a number of experiments have Direct Production of Power .- Various efforts have b

been made, in which the effort has been to consume carbon chemically without heat emission. In doing this, carbon has been employed as an electrode in a voltaic cell. The method employed by Dr. W. W. Jacques, of New England, consists in blowing air through a solution of fused caustic soda, constituting a voltaic cell with a carbon anode and an iron cathode. voltaic cell with a carbon anode and an iron cathode. He claims to have obtained in this way a very large current with low voltage. Dr. Alfred Coehn, of Germany, explains his method more at length. He takes as the basis of his work the principle that the development of electricity directly from the oxidation of carbon should be sought by determining the conditions under which carbon can be attacked in an electrolytic bath by aid of an external current, and adapting these conditions for the production of a current. In an experiment with dilute sulphuric acid as an electrolyte between carbon electrodes, carbonic acid and carbonic oxide appeared, mixed with only one per cent. of oxygen. At high temperatures the carbon anode was not dissolved, but the acid became dissolved, which he supposed to be due to a solution in it of carbon. His efforts were directed toward the attainment of a cell in which carbon should be the soluble electrode, he using lead peroxide as the other electrode; and he claims to have succeeded in proving that it is possible, by electrolysis, to produce a as the other electrode; and he claims to have succeeded in proving that it is possible, by electrolysis, to produce a solution of carbon. From such a solution carbon may be separated as a cathion, and an element may be formed of which carbon is the soluble electrode. At present it may be said that this question is still in an embryotic state, though the experiments thus far made are not without encouraging features.

INDUCTION OF CURRENTS. Attention has been given in this article to the inductive effects of static electricity; something now needs to be said about the very interest-

may be said that this question is still in an embryotic state, though the experiments thus far made are not without encouraging features.

INDUCTION or CURRENTA. Attention has been given in this article to the inductive effects of static electricity, something now needs to be said about the very interesting induction phenomena of dynamic or current electricity. These phenomena are of the very highest importance in practical electricity, as in the transmission of power and many other applications of electric force. They are based on the following principle: If there be two wire circuits, parallel and near each other, and an electric current be caused to flow through one (which may be called the primary), at the instant of its starting a momentary current appears in the other (the secondary circuit), flowing in the opposite direction. This only continues until the primary current appears in the secondary, now in the same direction as the primary also momentary in duration. Every time the primary also momentary in duration. Every time the primary also momentary in duration. Every time the primary current is made and broken these phenomena reappear; and if arrangement be made for a rapid interruption and re-formation of the primary current will appear in the secondary, each make and break in the primary pitcling two currents, in opposite directions, in the secondary. By a continuance of this process, the secondary can be made to induce currents in a third wire, this in a fourth, and so on. These extended inductions, however, have only an experimental significance, and are of no practical utility, while the secondary is of the highest practical usefulness. One circumstance connected with this current it is important to motion: The primary current, on making, rises to its full strength more slowly than it sinks to zero on breaking. In consequence, the induced current due to making, circuit is less rapid in rising and falling than that due to breaking. The latter, therefore, being more sudden in its action, possesse g

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extended horizontally, can very readily be accomplished by winding them into colle (employing insulated wire so as to avoid direct communication of the current) and bringing the colle close together. We may, for instance, wind the primary and secondary wires on bobbins, and insert the former into the latter, so as to get the greatest possible number of turns of wire into proximity. In this way miles of wire may be employed; and, as the total length of the primary exerts an inductive effect on the total length of the secondary, an induced current of the total length of the secondary, an induced current of great strength results. The effect is greatly increased if a bundle of iron wires be inserted into the primary coll. The iron is broken up into wires to prevent the formation in its mass of induced currents, which would retard the rise of the induced currents, which would retard the rise of the induced currents, which would retard the rise of the induced currents as magnetic one, which its velocity may be easily calculated. great strength results. The effect is greatly increased if a bundle of iron wires be inserted into the primary coil. The iron is broken up into wires to prevent the formation in its mass of induced currents, which would retard the rise of the induced currents which would retard the rise of the induced currents in the secondary wire. The effect of the soft iron wires is a magnetic one, they being converted into magnets by the action of the current coil. This effect, therefore, does not belong to the present subject, but is treated under Electron-anantries. It must suffice here to speak of the importance of the magnetic induction from the wires, in strengthening the induced current. As regards the practical effects of induced current. As regards the practical effects of induced current. As regards the practical effects of induced currents of the subject of electricity. Their physiological effects are very striking, so much so that the nerve and muscle experiments of the physiologist afford a very delicate method for detecting them. (For these effects, see Electro-Therapturics.) The most important effect of induction is the facility which it affords to yield currents of high electro-motive force from sources of large quantity but small voltage. This is done by making the primary circuit of thick wire and few windings, so as to have small resistance and a low coefficient of self-induction; and to make the secondary circuit of fine wire in many windings, it being often, in large nachines, of many miles in length. To prevent disruptive discharge between parts of the insulated wire, the coil is divided up by insulating septa, so that parts at very different potential are separated. The condenser, a very important part of the apparatus, is made of a number of sheets of tin-foli, separated by sheets of oiled silk or varnished paper. The purpose of the condenser is to provide a way for the iercitity when the current is the primary which, by prolonging the full of the primary conting the primary high provides and the prim

TYPE; &c.

Elec'trifiable, a. That may be electrified; capable of receiving electricity, or of being charged with it; that may become electric.

Electrifiea'tlom, n. Act of electrifying, or state of being charged with electricity.

Elec'trified, p. a. Charged with electricity; suddenly roused or excited.

roused or excited.

Elec'trify, v. a. [Electric, and Lat. facio, to make.]

To render electric; to communicate electricity to; to charge with electricity; to effect by electricity; to give an electric shock to; to excite or rouse suddenly; to give a sudden impulse to.

—To euchant; to charm.

—s. s. To become electric.

measures the time of the projectile's flight between the screens, from which its velocity may be saily calculated. Elec'tro-biol'ogy, s. [Gr. elektron, amber, bios, life, and logos, discourse.] That branch of electrical science which treats of the electric conditions of living plants and animals, and the effects of electricity upon them. It includes electro-physiology and electro-therapy or therapeutics. The term is also applied to a phase of measurement in its mental results.

It includes electro-physiology and electro-inerapy or therapeutics. The term is also applied to a phase of mesmerism, in its mental results.

Electro-chemical, a. Belonging or relating to Electro-chemical Theory, a. (Chem.) This theory, founded by Davy and Berzellus, assumes that the constituents of every binary compound are always in opposite electrical states; one being electro-negative, the other electro-positive. When an electric current is passed through such a compound with sufficient force to decompose it, its electro-negative constituent is disengaged at the wire connected with the positive pole of the battery, and its electro-positive element at the wire connected with the negative pole. The elements and many compounds have been classified according to this theory. Thus hydrogen, the netals and their oxides belong to the class of electro-positive substances, while the non-metallic elements and the acids belong to the other class. This distinction, however is relative, as a

the non-metallic elements and the acids belong to the other class. This distinction, however is relative, as a substance may be electro-positive to one body, but electro-negative to a third. See Electro-Lysis. Electro-cut'stion, s. [A newspaper coinage, completely irregular in its etymology, but now almost universally adopted.] Capital punishment by electricity; a method by which the barbarous character of hanging is sought to be overcome by substituting an instantaneous and painless mode of putting condemned criminals to death. This method of execution was first adopted in the State of New York, where a law was passed on June 4, 1888, declaring that on and after January 1, 1889, all death sentences in that State should be executed by the electric current, the law requiring that a current of at 4, 1888, declaring that on and after January 1, 1889, all death sentences in that State should be executed by the electric current, the law requiring that a current of at least 3,000 volts should be employed, an alternating current being considered preferable. Experiment has shown that the strength and electro-motive force of current necessary to cause death differs with different circumstances. A current of low potential is almost harmless, its only danger being that it may give rise to induced currents of much greater voltage. In the case of the alternating current, the danger increases as the alternations become more rapid, up to a certain limit, beyond which the danger grows less; and a current of very rapid alternation becomes harmless. Nikola Tesla has passed currents of 200,000 volts through his body without injury. The first criminal to suffer under the new law was a murderer named Kemmler, who was put to death August 6, 1890. He was fastened in a specially constructed chair, and the current passed through his body from the top of the head to the lower part of the spine, contact being made with moistened sponges. The alternating dyname employed was capable of producing a current of a maximum pressure of 2,376 volts, the voltage actually employed being something over 1,500. The application of the current threw the body into a state of extreme muscular rigidity, consciousness and sensation being apparently suspended. After 17 accounts the subject was propounced dead and body into a state of extreme muscular rigidity, consciousness and sensation being apparently suspended. After 17 seconds the subject was pronounced dead and contact was broken. Complete muscular relaxation followed the rigidity, and after half a minute there occurred slight spasmodic movements of the chest, with expulsion of a small amount of mucus from the month. expussion or a small amount of nucus from the mouth. Contact was made again and kept up for 70 seconds, when death was undoubtedly evident. The fact of a seemingly slight delay in death gave rise to much opposition, though it is very probable that no consciousness accompanied the movements observed, and that death was very much more nearly instantaneous than in execution by banding. In all leter accustions are all extending the second of the seco was very much more nearly instantaneous than in execution by hanging. In all later executions one electrode has been so applied as to cover the forehead and temples and the other applied to the calf of the leg. An electrocution law was passed in Ohio, April 6, 1896, which took effect on July 1, 1896. [Gr. elektron, and odos, a way.] A term substituted by Faraday for the term pole, as applied to one of the terminations of a voltaic battery. It signifies the way or door by which a current enters or leaves a substance. See Electrocurss.

a substance. See ELECTROLYSIS.

Elec'tro-dymam'ic, elec'tro-dymam'ical, a. Relating to ELECTRO-DYNAMICS.

Elec'tro-dymamics, s. pl. [Gr. elektron, and dynamics power.] That part of the science which treats of the effects of the phenomena of electricity as a moving force. See ELECTRIC MOTORS; ELECTRO-MANNETISM.

Electro-etch'ing, s. A mode of etching upon metals during electro-chemical decomposition. If two plates of copper be connected with the upposite ends of a voltaic battery and placed in a vessel containing water mixed with a little sulphuric acid, the plate connected with the positive end will be stacked by the oxygen which is released during the decomposition of the water. This destructive action can be localized at pleasure, by cover-

ing certain parts of the plate with a protecting stratum of varnish. Now, as the varnish effectually shields a plate from the effects of electrolytic action, it is evident that a drawing traced through it in the ordinary manmer may be etched without difficulty by exposing the plate to the action of the nascent oxygen. A stout wire must be soldered to the plate; and this as well as the back of the plate, must be varnished with a solution of shellac in alcohol. Thus prepared, the plate is placed in a decomposition cell opposite a plate of somewhat similar size, and the two are connected respectively with the copper and zinc of a Daniell's or Smee's battery. (See GALVALISM.) After the lapse of about ten minutes the prepared plate is removed, for the purpose of "stopping out." the fine parts of the design with Brunswick black. This being done, the plate is returned for ten minutes more. The half tints are thus stopped out and the plate is once more exposed to the action for ten minutes, in order that the stronger lines of the drawing may be deepened. When the etching is completed, the varnish is removed by heat. The duration of the several exposures, as well as their number, will of course be regulated by circumstances. To etch upon iron or steel, a solution of common salt may be used as an electrolyte; and to etch upon silver, a solution of sulphate of silver. This mode of etching is, in many respects, superfor to the common mode by the use of acids. It can be conducted with considerable regularity, and be rendered slow or rapid at pleasure. Also, the plate can be taken out of the cell from time to time to be examined, and re-submitted to the action in a moment.

Electrol'Ogy's, [Gr.deletron, and logo, a discourse.] (Physics.) That department of science which treats of electricity.

(Physics.) That department of science which treats of electricity. 
Electroly'sis, n. (Chem.) [Gr. elektron, amber, and loo, I loose, I dissolve.] The process of electro-chemical decomposition. When certain compounds are introduced into the circuit of the voltaic current, it has the power of loosening and separating their elements. Substances thus susceptible of decomposition are termed electrolytes. They are all binary compounds containing single equivalents of their components, which are held together by very powerful affinities. The amount of electrical power required to effect decomposition varies greatly with different electrolytes: solution of iodide of potassium, melted chloride of lead, hydrochloric acid, water mixed with sulphuric acid, and pure water, demand very different degrees of decomposing force, the resistance increasing from the first-mentioned substance to the last. Fluidity is an indispensable condition of electrolysis; for bodies which, when reduced to the liquid state by fusion or solution, freely conduct electricity and readily suffer decomposition, are frequently excellent insulators when solid. When a liquid is electrolyzed, its components are disengaged solely at the limiting surfaces, where the current enters and leaves the liquid, all the intermediate portions appearing perfectly quiescent. Faraday proposed the terms anode and cathods. readily suffer decomposition, are frequently excellent insulators when solid. When a liquid is electrolyzed, its components are disengaged solely at the limiting surfaces, where the current enters and leaves the liquid, all the intermediate portions appearing perfectly quiescent. Faraday proposed the terms cased and cathods, respectively, for the surfaces which are supposed to receive and let out the current of positive electricity. The anode is therefore directly against or opposite the positive pole of the battery, or the positive electrode; and the cathode against or opposite the negative pole or electrode. The bodies which are set free by electrolysis are termed tows. Those ions which go to the anode, and appear at the positive electrode or pole, are distinguished by the term cathons. In the phraseology of the electrochemical theory, anions would be called electro-positive bodies, and cathions electro-negative bodies, from the assumption that they are under the influence of direct attractive forces residing in the opposite poles of the battery. Faraday has shown by conclusive experiments that the decomposing force is not at the poles, but witffin the substance that is acted on by the current; and the new terms introduced by him express the phenomena actually observed in all cases of electrochemical decomposition. The following illustrations of electrolysis are interesting: When a pair of platinum plates are plunged into a glass of water to which a few drops of sulphuric acid have been added, and the plates connected by wires with a voltaic battery, the water is decomposed into its two constituents, oxygen and hydrogen; the former being disengaged at the positive electrode, and the latter at the negative electrode. The sulphuric acid is added to the water merely to increase its conducting power. A solution of hydrochloric acid colored with a little gelations starch. The decomposition for beautiful blue color which it will form with a little gelatinous starch. The decomposition and Carlise, and the decomposit

circulating electricity, and might be taken as accurate and trustworthy measuring of the latter. Guided by this important principle, he constructed his voltameter, an instrument which has rendered the greatest service to electrical science. This is merely an arrangement by which a little acidulated water is decomposed by the current, the gas evolved being collected and measured. By placing such an instrument in any part of the circuit, the quantity of electrical force necessary to produce any given effect can be at once estimated; or, on the other hand, any required amount of the latter can be, as it were, measured out and adapted to the end in view. The use of this instrument led to the discovery that the relative decomposing effects produced by the can be, as it were, measured out and adapted to the end in view. The use of this instrument led to the discovery that the relative decomposing effects produced by the same current in different electrolytes is exactly expressed by the atomic weights or chemical equivalents of the electrolytes. For instance, the same current which decomposes but 9 parts of water will decompose ließ parts of loddle of potassium and 139 parts of chloride of lead. Electrolysis can be affected by the electricity of the common electric machine, but only on a very minute scale. This arises from the small quantity of the common electricity set in motion by the machine, compared with that generated by the voltaic battery. A pair of small wires of zinc and platitum dipping into a single drop of dilute acid, develop far more electricity, to judge from the chemical effects, than very many turns of a large late electrical machine. The wonderful powers of the electricity generated by the machine depend on its lession, or that property which enables it to overcome difficulties and pass through imperfect conductors. The electrolysis of metallic salts is now carried out on a large scale in the beautiful arts of electrolysing (q. v.). The more recent arts of electrolysing to the chemical action of the voltaic current. The se-called storage of electricity is a process of electrolysis, the electric current which passes through the storage cell decomposing the liquid electrolyte and depositing its cathlons on the plate connected with the negative, and its anions on that connected with the negative, and its anions on that connected with the negative, and its anions on that connected with the negative, and its anions on that connected with the positive pole of the battery. The similar metallic plates, being thus rendered chemically disminilar, set up a reverse current through galvanic action, and yield electric energy. Electrolytic decomposition may be positive pole of the battery. The similar metallic plates, being thus rendered chemically dissimilar, set up a reverse current through galvanic action, and yield electric energy. Electrolytic decomposition may be effected by means of alternating currents, if a break be made in the secondary circuit so that the discharge has to pass as a spark. In this case comparatively feeble alternating currents yield signs of electrolysis, the gases collected at both electroles having the same composition, unless the quantities of electricity that siternate in opposite directious are unequal, in which case the electrodes are polarized, and a secondary current may be produced.

Electrolyte, a. (Chem.) A substance susceptible of direct decomposition by the action of the electric current. See Electrolytis.

Electrolytic, a. Belating to electrolysis.

Electrolytic, a. Belating to electrolysis.

Electrolymphonym

Elec'tro-mag'net, s. A bar of iron temporarily magnetized (see ELECTRO-MAGNETISM), causing a current of electricity to pass through a wire coiled around it. Elec'tro-magnet'ie, a. Belonging or relating to

Elec'tro-magnetism.

Elec'tro-

was made to pass through the mercury; and the magnet, buoyed up by the mercury, rotated about it. If the positive current descended, the rotation was in the direction from east through south to west; but if the current was made to ascend, then the direction of the motion was reversed. Ampère subsequently caused a magnet to rotate round its own axis; and Barlow devised an ingenious apparatus for exhibiting the rota-tion of a conducting body round its axis. The first useful application of Oersted's discovery of the reciprocal

useful application of Oersted's deforce exerted between magnetic bars and conducting wires, was made by Schweigger, a German physicist, in the construction of an instrument for indicating the direction and measuring the intensity of voltaic currents. (See Galvanouriza.) The laws of electro-magnetic action were fully developed by Ampère, who must be regarded as one of the greatest philosophers of this century. In the course of his investigations he discovered a number of extremely interesting phenomena resultinteresting phenomena result-ing from the action of electrical



Fig. 924. Electro-magnet.

currents on each other, which become evident when arrangements are made for giving mobility to the con-ducting wires. He found that when two currents flowing arrangements are made for giving mobility to the conducting wires. He found that when two currents flowing in the same direction were made to approach each other, strong attraction took place between them, and when in an opposite direction, an equally strong repulsion. These effects have absolutely no relation that can be traced to ordinary electrical attractions and repulsions, from which they must be carefully distinguished. They are purely dynamic, having to do with electricity in motion; and hence they are generally treated of under the head of electro-dynamics. Upon those attractions and repulsions of conducting wires Ampère founded a most beautiful and ingenious hypothesis of magnetic actions in general, which explains very clearly the influence of the current on the needle. He found that a striking analogy existed between wires conducting electricity and magnets, when the former were turned corkscrewfashion, into helices. A helix has indeed all the properties of a magnet, but the nature of the pole at either end will depend on the direction of the turns of the helix; if these be from left to right, then the extremity at which the current enters will have the magnetic properties of a north pole; but if the helix be a left-handed one, then the extremity at which the current enters will have the magnetic properties of a south pole. The analogy extends to fracture. If a magnetic attractions and repulsions are consequences of the actions of the currents on each other. In applying this theory to the explanation of the phenomena of terrestrial magnetism, it is necessary to suppose the incessant circulation of electrical currents round the globe from east to west perpendicular to the magnetic meridian. (See Magnetism.) A consideration of the influence exerted by electrical currents on magnets naturally led to the conclusion that the neutral condition of bodies susceptible of magnetism would be disturbed by an electrical current, and this conclusion was quickly verified by experiments. When an electrical current is passed at right angles to a piece of iron or steel, the latter acquires magnetic polarity, either temporary or permanent, as the case may be, the direction of the current determining the position of the poles. This effect is prodigiously increased by causing the current to circulate a number of times round the bar, which then acquires extraordinary magnetic power. This effect is prodigiously increased by causing the current to circulate a number of times round the bar, which then acquires extraordinary magnetic power. A steel bar may be permanently magnetized in this way, but a bar of pure and soft iron retains the magnetic force only so long as the electrical current is circulating round it. Bars of iron thus temporarily magnetized are called electro-magnets. The strongest are horse-shoe-shaped, and the conducting-wire, which is wound several times round them, is the ordinary copper bell-wire, covered with silk or cotton for the purpose of insulation. The power of the electro-magnet depends on the dimensions of the bar, the purity of the iron, the intensity of the current, and on the length and thickness of the covered wire. One of the largest artificial magnets in the world is that constructed several years ago, at Willett's Point, N. Y., by Col. King, U. S. A. The core consists of two discarded Rodman guns, of 15-inch caliber, weighing 25 tone each. The addition of many tons of heavy iron plates formed a "club-footed" magnet. Fourteen miles of torpedo cables, carrying some 25 amperes, form the coli; while the armature consists of six platform plates bolted together. As a test of strength, an effort was made to pull off the armature, but the chain employed broke under a strain of 44,800 pounds. Four cannon balls weighing 320 pounds each have been held suspended like a chain from the end of this magnet (Fig. 2856). At a distance of 1 feet the magnetism of this device equals that of the earth, deflecting a compass needle 46 degrees. The entire mass, including guns, carriage, armature, etc., weighs about 138,000 pounds.

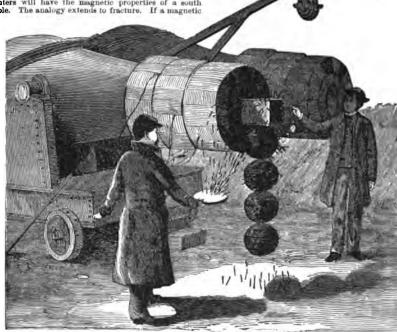


Fig. 2856.—THE GREAT CANNON MAGNET.

bar be broken in two, each piece is a perfect magnet, and the fractured parts have opposite poles; so it is with the helix, which, if divided in the middle, exhibits attraction between the fractured ends. Now, according attraction between the fractured ends. Now, according to Ampère's theory of magnetism, the phenomena exhibited by a magnet depend on voltaic currents circulating round its molecules. In their excited state, these molecular currents move in all directions, and thus neutralize one another; but when the bar becomes a magnet, the currents move parallel to each other, and in the seme direction, and the effect produced is that of a uniform current moving corkscrew-fashion round the bar, which thus becomes in effect a helix; and the

Electro-metal Turgy, n. The application of electricity to metal-working. The more important branches of electro-metallurgy are fully described under the heads of ELECTRO-EVANIA. ELECTRO-ETCHING.

The Elmore Process of Producing Pure Copper. A new process for the electro-deposition of copper invented by Mr. Elmore, an English metallurgist. This process is leased on the following fact: A Mr. Wilde who had at Manchester a plant for the electro-deposition of copper by the aid of a current produced by the dynam machine, sought to increase the density of the copper for use in calico-printing and some other industries, by removing

It from the bath and employing on it the pressure of a roller or burnisher. This was done several times during the process, with the unexpected result that, during the removal of the copper from the bath, a coating of oxide of copper formed on its surface, and when redeposited the new coating of copper did not adhere; so that a copper cylinder gradually built up in this way consisted of a seriec of superimposed cylinders, capable of separation. The improvement made upon this process by Mr. Elmore, may be briefly stated. It was to apply the burnisher continuously without removal of the copper cylinder from the bath. He thus avoided the formation of oxide, and kept the cylinder continually under pressure, producing a homogeneous and dense deposit. Copper, when deposited electrolytically, displays a crystalline structure, and the surface in time presents a rough, granular appearance, which requires greater electrical work to increase the thickness. This result can only be avoided by making the rate of deposit very slow; and even in and the surface in time presents a rough, granular appearance, which requires greater electrical work to increase the thickness. This result can only be avoided by making the rate of deposit very slow; and even in this case the microscope shows a crystalline structure. By the continuous application of the burnisher this difficulty is avoided, a smooth surface being continually produced, while the pressure upon the comparatively soft copper rubs out the crystals into a fibrous, coherent mass. In this process the deposit is not made upon a stationary object, but upon a revolving tube, which is immersed in a suitable electrolyte, such as sulphate of copper. Plates of metal from which the deposit is made are placed on each side of this tube, and at the bottom is another electrode consisting of a flat sheet of perforated copper, the perforations permitting the impurities in the copper to fall into a wooden tray beneath. These several copper plates are so connected as to form the positive pole or anode of the bath. As the tube revolves by mechanical power it is passed upon by a small plate of agate, which moves automatically backward and forward from end to end of its surface, against which it is kept pressed by springs. Thus every layer of copper of infinitesimal thickness is compressed from the crystalline into a fibrous structure, it taking 144 hours to deposit an eighth of an inch of metal, during which the burnisher moves over its surface from 30 to 60 times, according to the nature of the metal being worked. The process, on account of the burnishing action, is three times as rapid as ordinary electro-depositing, and can be made six times as rapid if desired. On completion of the work and removal of the tube of copper from the bath, it can be separated from the basic tube by heating or pressure, and yields a tube of pure copper of remarkable qualities. Its tenacity is found to be about double that of ordinary copper, which contains impurities from which this is free; while fits due to the burnishing increases be electricity of this copper enables it to be drawn many times without annealing, and adapts it to the production of electric cables, whose resistance to conduction it is very important to reduce. The homogeneity, tenacity and ductibility of the copper tubes thus made render them highly suitable for employment as steam pipes where high pressures are used. Sheets of copper can also be produced as thin as tissue paper, if desired, and free from blemish of any kind. This is done by emptying the tank when copper of the desired thickness has been formed, permitting a layer of copper coxide to form, and then refilling the tank. A succession of fillings and emptyings will yield a succession of easily detachable layers. If now the copper tube thus formed be removed from its inner tube, cut through in the direction of its length, and flattened out by a roller, the layers of which it is made up may be separated from each other like the leaves of a book, and yield a series of sheets of equal thickness, each smooth and polished on both sides, and far superior in quality to sheet copper on both sides, and far superior in quality to sheet copper produced by any other means. Large plants for the manufacture of copper by the Elmore process have been established in France and Germany, that in France having a current of 3,600 amperes, with which current 1,400 pounds a week can be deposited on a single man-

dril.

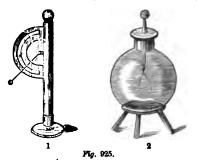
Electrom/eter, n. [Fr. Aectromètre, from Gr. elektron, and metron, measure.] Electrometer and electroscope are instruments constantly employed in electrical investigations. The two words are generally taken as synonymous; electroscope, however, should be applied to those instruments which give evidence of electrical excitement without giving the exact measure of it; and electrometers to such as show both. The quadrant electrometer (1, Fig. 925) consists of a conducting rod, generally of box-wood or brass, with a graduated semicircle attached above, in the center of which is a pivot for the rotation of a straw carrying a pithball at its outer circle attached above, in the center of which is a pivot for the rotation of a straw carrying a pithball at its outer end. It is used for electricity of high tension, such as that of the electric machine. When placed on the prime conductor of the machine, the whole becomes charged with positive electricity, and the ball is repelled first by the electricity of the rod, and then by that of the prime conductor, the height to which it rises being seen on the semicircle. This is not an electrometer in the strict sense of the word; for although it tells us, by the straw is lowly lost, through convection or dampness.

Electro-physiological, a. Pertaining to electrical results produced through physiological agencies or by change of action in a living being.

Electro-physiology. Believing the convection or dampness.

Electro-physiology is a generic trickly represent the sense of the word; for although it tells us, by the straw is lowly lost, through convection or dampness.

rising and falling, when one tension is greater or less than another, it does not tell us by how much, the conditions of its repulsion being too complicated for simple mathematical expression. It can show us, however, by the indicator standing at the same point, when the electric tension of the machine is the same at one time as at another. Bennett's gold-leaf electroscope—a much more delicate instrument, and one of great value in all electrical investigations—consists (2, Fig. 925) of two slips of gold-leaf suspended parallel to each other within a glass receiver, and communicating with a metal cap or disk above. When the cap is touched with an electrified body, the leaves separate, but instantly collapse



when a second body, charged with the opposite kind of electricity, is brought near the cap. Cavendish conwhen a second body, charged with the opposite kind of electricity, is brought near the cap. Cavendish constructed an excellent electrometer, with two slender reeds terminating with two cork balls, the divergence of which was indicated by a scale. In Coulomb's torsion-balance, the force of electrical repulsion is estimated by the reactive force of a fine wire suspended vortically, and twisted more or less from its quiescent position. Harris's biflar balance—an exceedingly delicate and useful electrometer—may be regarded as a modification of Coulomb's. One of the latest improved electrometers is that of Sir W. Thomson, used in connection with telegraphic instruments. telegraphic instruments.

Electromet'rical, a. Pertaining to, or made by, an

electrometer.

Elec'tro-mo'tive, a. That which excites, or produces, electro-motion

Elec'tro-meg'ative, a. Being in such a state, with respect to electricity, as to be repelled by bodies negatively electrified, and attracted by those positively elec-

A substance which, in electro-chemical decomposition, makes its appearance at the anode, or electro-positive

pole.

Electro-neg'ative I'ons. See Electrolitis.

Electroph'orus, n. [Fr. électrophore, from Gr. elektron, and phorus, bearing.] An instrument which consists of a resinous plate, A, which may be made of equal parts of shellac and resin, with a little Venice turpenting.

tine, melted and cast into a circular disk of somewhat less than and an inch thick from six to ten inches from six to ten inches in diameter; it should rest upon a metal plate or sheet of tinfoil; upon its upper surface is placed a so me what smaller brass plate, B, with a glass handle. When the resinous plate is excited, by rubbling it with a warm and dry with a warm and dr flannel, and the metal lic cover put down
upon it, a spark of
negative electricity
may be drawn from
it; and if it then be

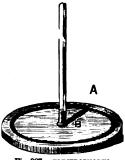


Fig. 927.-ELECTROPHORUS.

may be drawn from Fig. 927.—ELECTROPHORUS. it; and if it then be raised, it affords a second spark of positive electricity. On replacing the cover, and again touching it, it gives a negative spark, and on again raising it, a second positive spark, and on these sparks thus obtained may be repeated any number of times, so that the instrument forms a useful and portable electrical machine. In practice it is necessary to keep the electrophorus in connection with the ground, which is usually done by a metallic pin passing through B to A, or a piece of tinfoil pasted in B and connected with A. When the plate A, is brought down on the lower part of the apparatus, it is charged positively on its under surface, negatively on its upper. If it is then touched, the negative charge escapes and the cover is charged with positive electricity; and if removed and applied to any conductor it will give it a positive charge. The charge of B is very slowly lost, through convection or dampness. Electro-physiological, a. Pertaining to electrical results produced through physiological agencies or by change of action in a living being.

Electro-physiology, s. Electrical results produced through physiological agencies.

Electro-phase, a. To plate with silver by electricity.

Electro-phase, a. To plate with silver by electricity.

is the same as that employed in the electrotype and in electro-metallurgy generally. Theoretically, the process is one of great simplicity, but for its proper accomplishment great skill is a requisite. The articles subjected to the electro-plating process are generally made of brass, bronze, copper, or nickel silver. When Britannia metal, iron, lead or zinc are to be electro-plated its necessary first to deposit copper on them, since silver will not adhere to these metals. The best electro-plated goods are of nickel silver. The surface of the metal to be treated needs to be first carefully cleansed of any impurities, grease being removed by boiling in caustic potash, and rust or oxide by the action of dilute nitric acid; they being finally scoured with fine sand. Before being put into the silvering bath they are washed with nitrate of mercury. A thin film of mercury adheres and acts as a cement between the article and the silver. The electrolyte bath is a large trough of earthenware or other non-conducting substance, which contains a weak solution of cyanide of silver in cyanide of potassium. The positive electrode is formed by a plate of silver, and the articles to be plated form the negative. They are hung by pleces of wire to a metal rod lying across the trough. When the silver plate is connected with the positive pole of a voltaic battery or subjected to a magneto-electric current, and the rod holding the articles is connected with the negative pole, chemical articles is connected with the negative pole, chemical decomposition at once begins in the bath, the silver of the cyanide depositing itself on the suspended objects, the cyanide depositing itself on the suspended objects, while the cyanogen is set free at the silver plate, which it begins to dissolve, forming new cyanide of silver. As fast as the solution is weakened by the deposition of silver, it is strengthened by the formation of new cyanide. By this means, without mechanical exertion, it is easy to convert a piece of silver into any shape and cover with it articles of the most complicated and delicate forms, the silver adhering tenaciously to the metal beneath. When taken from the bath the objects appear of a dull white. This dullness is removed by friction from a brush of brass wire driven by a lathe, and polish then given by burnishing. Electro-gilding, or covering with gold, is performed in the same manner as plating. The burnisher is a piece of highly polished hardened steel, sometimes of blood-stone, flint or agate, fitted to a handle, and imparts to the smooth metallic surfaces, by steel, sometimes of blood-stone, flint or agate, fitted to a handle, and imparts to the smooth metallic surfaces, by friction, an exceedingly brilliant and lasting polish. Other metals, besides copper, silver and gold, can be electrically deposited from their solutions; of these, the most successful and useful as yet employed is the coat-ing of iron with zinc, a solution of the sulphate of zinc being used for the purpose. Alloys of the metals have ing of iron with zinc, a solution of the sulphate of zinc being used for the purpose. Alloys of the metals have also been deposited, but the processes are attended with practical difficulties. Paper and other fibrous material may be electro-plated by first rendering them good conductors of electricity. This may be accomplished by immersing them for one or two hours in a solution prepared by taking a solution of nitrate of silver, and adding ammonia until the precipitate first formed is entirely dissolved again. After drying them well, they are exposed to a current of hydrogen gas, by which means the silver is reduced to a metallic state, and they are rendered so good conductors of electricity that they may be electro-plated in the usual manner. See also ELECTROTYPE. ELECTROTYPE.

Electro-pos'itive, a. In such a state with respect to electricity as to be attracted by bodies negatively electrified.

A substance which, in electro-chemical decompo

—n. A substance which, in electro-chemical decompositions, makes its appearance at the cathode, or electronegative pole.

Electro-pos'itive l'ons. See Electrolysis.

Electropume'ture, Electropunctuation, n. (Surg.)

The operation of inserting two or more wires, and then
connecting them to the electrodes of the electric or
galvanic apparatus. It has been employed therapeutically in cases in which electricity, galvanism and
acupuncturation have been indicated.

Electroscope. w. See Electronatrie.

Electroscope. w. See Electronatrie.

Electroscope. in [Gr. elektron, and statikos, causing to stand.] That part of the science which treats of
electricity in equilibrium, as distinguished from electrodynamics.

ing to stand.] That part of the science which treats of electricity in equilibrium, as distinguished from electrodynamics.

Electro-therapeutties, s. The use of the electric current as a remedial agent (also known as electro-therapy and medical electricity) has grown until it is now a recognized and useful agent in various complaints, and its employment is widening. Electricity is employed for this purpose in three forms, the static, the galvanic, and the Faradic or induction; though the first named has been little used of late years, on account of the uncertainty of the action of the old frictional and even the Holtz machines. The recently introduced Wimshurst machine, whose action is independent of atmospheric conditions, is creating a renewed interest in the use of static electricity for medical purposes.

—Galomic. The current produced by the galvanic or voltaic battery is largely employed as a remedial agent, a battery of a considerable number of cells being needed, as the electricity has to traverse the skin, whose electrical resistance is high. Some form of the bichromate cell is commonly employed, the most convenient batteries comprising from 30 to 50 of these elements. Such a battery, in good working order, will yield a current of from 40 to 70 volts. The cells are usually made small, so that the battery may be portable, the current being used for short periods only. But in cases where measures are taken to reduce the resistance, and the current needs to be kept up for a considerable period—as in the electrolysis of tumors—larger cells must be used, and a rheostat should be employed so as to vary the external resistance with perfect gradations and

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avoid the danger of shock on the increase or decrease of current. A collector should also be used, so that the cells may be added successively to the current, as reavoid the danger of shock on the increase or decrease of current. A collector should also be used, so that the cells may be added successively to the current, as required. Formerly the strength of the current was sestimated only by the number of cells; but this is a very uncertain method, and galvanometers are now usually employed, by which the exact amount of current passing may be determined. The ampere, the unit of current strength, is much too large for medical purposes, and the thousandth part of this, the milli-ampere, is employed as a unit, currents varying from 1 to 300 milli-amperes being employed. The effect depends not only on the quantity, but also on the density of the current, this increasing as the diameter of the conductor is decreased. Thus, a current of 200 milli-amperes, conveyed to the body by two conductors with terminals 10 inches in diameter, can be borne with little inconvenience; but if one of the terminals be reduced to 1 inch in diameter, with the same current, intense pain may be felt and dessication and destruction of tissue quickly follow. As this is what is desired in the electrolysis of tumors, &c. currents of large quantity and great density are employed for that purpose. In the conveyance of the current there are employed fieldle wires of good insulation, which terminate in electrodes of sizes and shapes adapted to the various purposes in view. For the ordinary treatment of muscles, nerves, etc., disks, plates, or cones of brass or carloon, covered with finnel or wash-leather, are used. In the case of the employment of large currents there are used large with finnel or wash-leather, are used. In the case of the employment of large currents there are used large to the skin, should be sosked in warm salt water, to diminish the resistance and reduce the pain of the current.—Foradic Currents. A simple form of induction coil suffices for the production of the alternating Faradic current, the primary coil of thick wire being wound round a tube in which slides a bundle of iron wire;



Fig. 2857 .- BLECTRO-THERAPEUTIC BATTERY.

over this there fits a secondary coil of fine wire. In the best instruments the strength of the current can be regulated in two ways, one being the sliding of the iron bundle in and out of the primary, and the other the sliding of the secondary coil on or off from the primary. Some form of simple magnetic interrupter of the primary current is necessary, with a suitable means of regulating the rate of interruption. At each action of the interrupter two currents are induced (in opposite directions) in the secondary coil. In the primary there is a current induced in the reverse direction on the making, and in the same direction on the breaking of the directi. The currents from a faradic machine thus alternate in direction, and also differ in strength, the breaking current, being reinforced by the "extra stream" of the primary, being considerably the stronger. —Physiological Effects. When a direct current is employed of from 10 to 15 milliamperes, with electrodes of 1 to 2 inches diameter, a pricking sensation is felt in the skin, followed by a burning. On breaking the circuit the skin will be found bright red in color, thus showing increased vascularity. On a gradual diminution of the current, the sensation first vanishes under the positive pole; and on slow increase, first appears under the negative, showing that the latter is the more vigorous in action. The effect of such a current on the muscles is to produce contraction. By applying a large sponge electrode to the spine in the dorsal region and a smaller conical one to some such muscle as the biceps of the arm, a current of sufficient strength will cause this muscle to contract at the moment of making and breaking circuit. To yield electrolytic effects it is necessary to apply to the surface a broad electrode connected with one pole, and to use a platinum or steel be selled to remove, or applied to any mucous surface, and a current of from 15 to 250 mill-amperes, but at the pointed one, whose current density is large, the over this there fits a secondary coil of fine wire. In the best instruments the strength of the current can be at the pointed one, whose current density is large, the

result will be marked. If this electrode be positive, the products of decomposition will be strongly acid, as shown by their reddening litmus paper, and the tissue will contract around the electrode. If it be negative, shown by their reddening litmus paper, and the tissue will contract around the electrode. If it be negative, the tissue will decompose rapidly and the products of decomposition will manifest a strong alkaline reaction, a frothy material passing from the electrode, which will have free movement in a sinus caused by its action. The negative pole has thus a much more considerable disintegrating effect than the positive.—Effect of Induced Currents. When a weak induced current is applied to the skin, a sensation of gentle pricking or tingling is felt, which grows painful as the current strength is increased, but never harms as in the case of the direct current. If applied to a muscle, a muscular contraction ollows; and if the shocks be repeated with sufficient slowness a series of such contractions will take place. But if the shocks follow rapidly, the muscle will be thrown into a state of tetanus or continued contraction, each shock occurring before the muscle has relaxed from the preceding.—Electrical Diagnosis. Electrical currents serve a useful purpose in the diagnosis of certain affections of the nerves and muscles. Thus, in some diseases of the spinal cord and the cerebro-spinal nerves the normal phenomena of muscular contraction are found to be much altered. In some cases a muscle may fail to respond to a faradic current of any strength, and yet contract when interrupted primary currents are employed. In other cases the response to voltaic current stimuli may vary in character from that shown and yet contract when interrupted primary currents are employed. In other cases the response to voltaic current simuli may vary in character from that shown under normal conditions of health. These phenomena are termed the "reactions of degeneration."—Applications to Discase. Static electricity is found of value in the treatment of various nervous affections, such as neuralgia of old standing, chorea, hemi-ansesthesia, hysteria, and hystero-epilepsy. The voltaic current is employed in acute neuralgias, such as sciatica, tic-doulou-reux, &c.; in atrophy of muscle following hemiplegia, diabetes, &c.; in spinal irritation and chronic myelitis; in the stiffened joints from chronic rheumatism and in lumbago; in chronic pharyngitis; glandular laryngitis, reux, &c.; in atrophy of muscle following hemiplegia, diabetes, &c.; in spinal irritation and chronic myelitis; in the stiffened joints from chronic rheumatism and in lumbego; in chronic pharyngitis; glandular laryngitis, and chronic tonsilitis; and in other diseases associated with chronic inflammation and defective nutrition. Faradization is of use in nervous exhaustion attended with theorem in flammation and defective nutrition. Faradization is of use in nervous exhaustion attended with insomnia, in functional disorders of the generative organa, in acute articular rheumatism, in which it gives great relief to the inflamed and paintul joints, and in various other disorders of the nervous and muscular system.—Electrolysis. The employment of electricity in the removal of abnormal conditions of tissue is of much usefulness. Newi and aneurisms are frequently cured by electrolysis, needles which are insulated to within a quarter of an inch of their points being plunged into the tumor and the current sent through them. The contents coagulate around the needles, forming a nucleus around which further clotting takes place, the result being the obliteration of the newus or the strengthening of the walls and filling of the sac in in an aneurism. For uterine hemorrhage a current of 100 to 250 milli-ampere is used, the positive current being carried by a thick platinum wire to the nuccus membrane of the uterus, a large surface electrode lying on the abdomen. The positive current set as a powerful hemostatic, and this process, in skillful hands, checks most cases of hemorrhage. Fibroid tumors of the uterus are treated by currents of similar strength applied in the same way. In this case the dishnegrating effect of the negative current is meployed in various inflammatory conditions of the uterus, both internal and external. All these effects depend on certain conditions, as the strength of the current, the reduction of the resistance of the skin by the use of a large surface electrode, and the density of the current at the it cannot be said that these benefits are discernable. It is possible in this way to produce a more or less constant current of electricity, and it may be that in some cases benefit has resulted. But the action is irregular, the current cannot be directed or controlled, and troublesome ulcerations have been produced in the skin from prolonged contact with the negative pole. As regards the so-called "magnetic belts," there is nothing to show that they have any influence whatever on the issues or functions of the body. Powerful magnets have no apparent influence upon the body, and none can be expected from these pieces of magnetized watch spring or wire. If any relief from pain follows their application, it is most probably due to the heat-preserving effects of the finnel in which they are sewn. Electrotims, s. An art by which drawings are made with any substance insoluble in the solution of sulphate of copper. When the design is completed, the plate is

ELEC

with any substance insoluble in the solution of sulphate of copper. When the design is completed, the plate is immersed in the solution, and a reverse made by the electro-coppering process ready for the printer. It is the application of the electrotype to the art of engraving. It was invented in 1840 by E. Palmer, who gave it afterward the name of glyphography.

Elec'trotype, a. [Fr., from Gr. elektron, and typos, an impression.] The art of depositing copper and other metals in or upon suitable molds, through the agency of voltaic electricity, so as to produce faithful copies of coins, medals, types, engraved blocks, and other works; invented in 1837 by Professor Jacobi, of St. Petersburg. The following examples of electrolysis (q. v.) will elucidate this important branch of electro-metallurgy: If two platinum plates be connected with the opposite ends of a voltaic battery in action, and be placed in a

vessel containing water and sulphuric acid, the water will be electrolyzed, or decomposed by electricity; the hydrogen gas will be released at the plate connected with the negative end of the battery, and the oxygen at that connected with the positive. If into the acid liquid some crystals of sulphate of copper (blue vitriol) be now thrown in, electrolysis will still take place, but only one of the elements of the water, namely, oxygen, will be evolved; for the hydrogen, on being released from the water, will take the place of the copper in the solution, and the copper thus liberated will be deposited on the negative plate. This experiment may be continued until all the copper that liberated will be deposited on the negative plate. This experiment may be continued until all the copper slabstracted from the solution. If a copper plate be now substituted for the platinum one, forming the positive electrode, the water will be decomposed, but neither of the gases will escape. The hydrogen, as before, will take the place of the copper in the solution; the oxygen, instead of appearing at the positive plate, will combine with the copper of which that plate is composed, forming oxide of copper, which will unite with the sulphuric acid to form sulphate of copper. The chemical forces called into action by the current are so beautifully balanced, that, in the last experiment, the quantity of copper supplied by the positive plate equals exactly the quantity withdrawn from the solution, and deposited on the negative plate. The practice of electrotyping consists in preparing models or molds of objects to be copied, and in so arranging the battery, or apparatus, which generates the voltaic current, as to deposit the metal in a compact and solid form upon these models. There are many materials fitted for forming electrotype moulds; of these, fusible metal, wax, stearine, plaster of Paris, and guitapercha, are mostly used. Non-metallic molds are rubbed over with plumbago or black-lead, which is an excellent conductor for electr sulphuric acid; the outer vessel with a saturated solution of sulphate of copper, with a little sulphuric acid in it; and the shelf is well furnished with crystals of sulphate of copper to keep the solution saturated. Certain precautions must be observed in using this apparatus. Thus the mold must not be too small in projection to the size of the zinc; for when this is the case the copper is deposited as a dark powder. Again, it must not be too large, because then the copper is deposited very slowly, and is of a brittle texture. The single-cell apparatus is now only used for copping medals, seals, and other small works. For electrotyping large objects, or for operating upon a number of small molds, a separate decomposition cell is used, with a single cell of a Daniell's or a Smee's lattery for producing the current. The decomposition cell is filled with a dilute acid solution of sulphate of copper. Two brass rods, connected respectively with the zinc and copper (or platinized silver) of the generating-cell, are laid across the top; to one of these the molds are attached, and to the other a plate or plates of copper. By a series of chemical changes, to which reference has already been made, the copper from the solution is transferred to the molds; and the copper plates are dissolved with such regularity that the strength of the solution is kept up. The introduction of powerful magneto-electrical machines, driven by steam, have displaced the old galvanic tattery in electroplating or electrotyping, enabling the work to be done in a few hours which took a day or two under the old method. The copper deposit can be easily removed from its matrix by inserting the point of a knife between the impression and the edge of the plate, and displays, on the side next the matrix, a perfect copy of the original. Electrotyping is of the greatest importance in the arts. One of its special applications to two under the old method. The copper of pages of type, as has been done in the case of the pages of this work. Engraved copper

copied, and numerous such appitations to the arts can be made.

Elec'trotype, v. a. To copy, or make a fac-simile of, by the electro-chemical process of depositing metals from their solution upon a mold.

Elec'trotyper, a. One who electrotypes.

Elec'trotyping, a. Belonging, or relating, to electrotype or electrotyping, n. Same as Electrotype (q. v.).

Elec'trotyping, n. Same as Electrotype (q. v.).

Elec'trotyping, n. Same as Electrotype (q. v.).

Elec'trotyping, n. Same as Electrotype (q. v.).

Electrosvi'tal, a. (Physiol.) Applied by some physiologists to two currents supposed to move in the nerves of animals: the one external and cutaneous; the other internal, and proceeding from that axis.

Elect'uary, n. [L. Lat. electratium; Gr. ekleikton—ek, and leicho, to lick up, to lick.] (Med.) A form of medicine to be taken by licking it up, or letting it melt in the mouth; a mixture composed of powders, or other ingredients, incorporated with some conserve, honey, or syrup.

burg. syrup.

will Elegist, s. [Lat. 3d pers. sing. of elegi, perf. tense of urgy: eligere, to choose; from e, out, and legere, to gather, choose. See Klern.] (Law.) A writ of execution founded on the statute of Westminster the Second, by which Digitized by

after a plaintiff or defendant has obtained judgment in an action, the sheriff gives him possession of the lands and tenements of the opposite party, to be occupied and and telements of the opposite party, to be occupied aim enjoyed until the money due on such judgment is fully paid, and during that period he is tenant by elegit. Upon this writ the sheriff impanels a jury, who appraise the debtor's goods and lands, and if the former are insufficient to pay the debt, then the latter are also delivered over to the creditor. The writ is still in use in the U.S., with some modifications varying in the different

States.

El'egy, n. [Lat. elegia; Gr. elegeia, from eleges, from el el el legein, to cry woel woel] (Poetry.) A short poem composed on a mournful occasion, generally on some one's death. Among the ancient Greeks, the elegou was a strain of lament, and usually consisted of a poem was a strain of lament, and usually consisted of a poem made up of alternate hexameter and pentameter verses. The elegiac was also the favorite metre for epigrams. It was used, however, by different poets in different ways. The elegies of Callinus and Tyrtsus are political and warlike; those of Minnermus are contemplative and melancholy; those of Theogais and Solon are moral and political, &c. The first Latin elegiac writer of note was Catulius, and he was followed by Tibulius, Tibutius, and Ovid. The elegiac verses of Catulius are either mournful or satirical, while those of the other poets of the Augustan zera are devoted to subjects connected with successful or unsuccessful love. In more modern times, the poets of nearly every nation have practised this

successful or unsuccessful love. In more modern times, the poets of nearly every nation have practised this species of composition.

Ele'i. (Anc. Hist.) People of Elis, in Peloponnesus. In their country was the temple of Jupiter, near which were celebrased the Olympic games, of which they had the superintendence. Their horses were held in great

repute.

El'ement, n. [Fr. elément; Lat. elementum. Etym. unknown.] A rudiment; a first principle; the first or
constituent principle or minutest part of anything; an
ingredient. — That which cannot be divided by chemical
analysis; a simple or uncompounded substance.

—The substance which forms the natural or most suitable
habitation of an animal; the proper state or sphere of
anything; the state of things suited to one's temper or
habits.

"Our torments may, in length of time, become our ele

The outline or sketch. — The moving cause or principle;

"Our torments may, in length of time, become our elements."

"Millon.

The outline or sketch. — The moving cause or principle; that which excites action.

—pl. The letters of the alphabet.—The first rules or principles of an art or science.

(Eccl.) The bread and wine used in the Lord's supper.

(Math.) Rudiments; data employed in calculation.

(Chem.) The old philosophers applied this term to imaginary principles of matter; such as fire, water, earth, and air. The elements of the alchemists were salt, sulphur, and mercury. The term element is now used as synonymous with simple body.

(Astron.) Those numerical quantities, obtained by observation and calculation, which are used in compiling tables that exhibit the epheneris of a planet's motions. The principal are its greatest, mean, and least distance from the sun; its mean daily motion; its mean annual motion; the eccentricity of its orbit and its inclination to the ecliptic; the longitude of its ascending node and perihelion; and its mass and density.

Elementiality, a. Pertaining to, or produced by, elements; arising from first principles.

Elementiality, a. Combination of ingredients. (R.)

Elementiality, a. Combination of ingredients. (R.)

Elementiality, a. [Fr. elementaire, from L. Lat. elementarius.] Relating to or explaining elementary principles; primary; simple; uncompounded; uncombined; initial; rudimental; containing, teaching, or discussing first principles, rules, or rudiments; treating of elements; collecting, digesting, or explaining principles.

Elementa'tion, Instructing in the first principles.

El'emi, n. [Fr. élémi; It. and Sp. elemi.] (Chem.) A fragrant resinous substance, obtained from different species of the natural order Amyridacez, and somewhat similar in properties to copal. It was formerly brought chiefly from Egypt or Ethiopia, and was referred to a tree called Amyris elemifera. Part of the E of commerce is now brought from America, and is obtained from trees of other genera, but of the same natural order, particularly leaca leacariba, which grows in Brazil. Etaphrium elemiferum is believed to yield the greater part of the E of Mexico. E. is usually in large, paleyellow, semi-transparent masses, fragile, softening by the heast of the hand, with a smell somewhat resembling that of fennel. It is soluble in alcohol, except a white crystallizable residue, which is very light, inodorous, and tasteless, and which is called Elemine. The properties of E, however, chiefly depend on a volatile oil, which may be obtained from it by distillation. E is used in the preparation of stimulant plasters and ointments. Elemen', or Elemen' us, n.; pl. Elemens, or Elemens. (Chem.) See Elemi.

Elemen', or Elemen' us, n.; pl. Elemens, or Elemens. (Log.) A vicious or fallacious argument; a syllogism by which an adversary is forced to contradict himself. Elemen' icall, a. Pertaining to an elench. Elemen' icall, a. Pertaining to the court adict himself. Elemen' icall, a. Pertaining to an elench. Elemen' icall, from obs. root alaph, to accustom one's self to become gentle, tame. Bos Lucas, the Lucanian ox, was the name originally given to this animal by the Romans, because they first saw it in Lucania, in the army of El'emi, n. [Fr. élémi; It. and Sp. elemi.] (Chi

Pyrrhus.] (Zoöl.) A member of the family KLEPHAN-

ryrrus.] Q. v. El'ephant, a name indicating various localities in Assardant Arrica.—1. Elephant Point, a promontory at Pegu, in Further India, marks the west extremity of the mouth of the Rangoon, the most easterly arm of the Irrawaddy. It is in Lat. 16° 28' N., and Lon. 96° 22' E.—2. Elephant Bay, an inlet of the Atlantic, on the coast of Benguela, South-west Africa, in Lat. 13° 14' S., and Lon. 12° 33' E.; has excellent auchorage, but no fresh water.—3. Elephant Leland in Sangeymbia is short water.—3. Elephant Island, in Senegambia, is about 100 miles up the Gambia.—4. Elephant River, in the Cape Colony of South Africa, enters the Atlantic after a course of 140 miles, about Lat. 31½ S., and Lon. 18° E. Elephant ta, a small island near Bombay, remarkable for a huge unwieldy statue of an elephant, cut out of the solid rock.

the solid rock.

El'ephant-apple, n. (Bot.) See FERONIA.

El'ephant-beetle, n. (Zodl.) See SCARABHIDE.

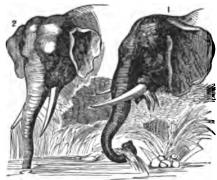
Elephant-tiac, a. (Med.) Afficted with elephantiasis.

Elephanti'asis, n. [Lat. and Gr., from elephan, elephant, so called from its likeness to the elephant's hide.]

(Med.) A disease common in the East and West Indies, (Med.) A disease common in the East and West Indies, and so called from the skin of the afflicted limb becoming rough, scaly, and enormously thickened, so as to resemble the leg of an elephant. It generally comes on with great heat of the skin, alternating with profuse perspiration and ardent thirst. The part becomes red, hot, swelled, and painful, increases to great size, and becomes a burden to the patient. Though it is the leg that is generally affected by this disorder, other parts of the body are liable to its attack; but it is not usual for more than one part to be morbidly enlarged in the same individual. In the treatment of this disease in its earlier stages the use of laxatives and disphoretics is earlier stages the use of laxatives and disphoretics is recommended, together with the application of iodine ointment to the part, and firm bandaging. In the later stages little can be done for its alleviation, and amputa-

onthein to the past stages little can be done for its alleviation, and amputation of the part is generally discountenanced.

Elephan'tidee, n. pl. (Zozi.) The Elephant family, order Fuchydermata, containing the largest terrestrial animals in existence. They are distinguished by having a cylindrical, prehensile, very mobile probosci, furnished at the tip with a small finger-like appendage, two large projecting tusks in the upper jaw, representing the incisors of other animals, and five toes on each foot included in a hard skin. This family contains the elephants, mammoth, and mastodon, &c. The full-grown foot included in a hard skin. This family contains the elephants, mammoth, and mastodon, &c. The full-grown adult elephant (fig. 928) may be said to possess only one molar tooth on each side of each jaw, and they are very peculiar for the manner in which they shed or change these teeth. The first-formed teeth, as they grow older, become thinner and shorter, a fresh set forming behind them. These new teeth press from behind forwards, and as the jaws continue to grow they come partially into use. These in their turn are pushed out by another new set forming behind; and this process is repeated till the elephant has changed its teeth eight times. At each dentition the number of plats of which these molar teeth consist are increased. The tusks, which, being implanted in the incisive or intermaxillary bones, may be considered as answering to the tusks, which, being implanted in the incisive or intermaxillary bones, may be considered as answering to the incisive teeth, are only shed once in the animal's life. This takes place between the first and second year, soon after which the permanent tusks are cut, and gradually increase in size, the ivory being deposited by successive secretions of a vascular pulp in very thin layers from within. These tusks in the adult animal vary much in size, and continue to grow throughout most of the animal's life. They are generally much larger in the male than in the female, weighing, in the case of the former, from 50 to 150 lbs. The greatest recorded weight is 350



Pig. 928.

1, head of African elephant; 2, head of Asiatic elephant

1, head of African elephant; 2, head of Asiatic elephant.

1bs., but this is extremely rare. Their average length is from 6 to 7 feet, with a diameter at the base from 5 to 6 inches. The proboscis or trunk, a most elaborate piece of mechanism, is hollow, and is always kept moist internally by a secretion of mucus from glands disributed upon its inner surface. It is endowed with exquisite sensibility, the utmost facility of motion, and immense strength. In its utility and power it is almost equal to the hand of man, and far excels that organ in the monkey tribe. Between 30,000 and 40,000 muscles are asid to enter into its structure, and by their action the elephant is enabled to extend this animated instrument, shorten it, and bend it in every direction, so that there shorten it, and bend it in every direction, so that there

is hardly any curve or position which it cannot assume at the will of the animal, nor any substance, large or small, with which it cannot grapple. This is the elephant's pump, his drinking-cup, his water-reservoir, his powdering apparatus with which he puffs the collected dust over his moistaced hide to protect it from flies, his foraging instrument with which he collects his food, and his all-powerful arm. The elephant is a huge, unwieldy-looking animal, with a naked, thick, callous, and wrinkled skin, generally of a dirty gray or blackish color. The head is large, and the skull is very thick, but light, owing to an extensive thin cellular texture largely developed between, and separating the outer and inner tables. The chamber which contains the brain is comparatively small, and though these animals are proverbially considered very intelligent, the brain itself is small in proportion to that of the dog or horse, and is only about equal to that of the dog or horse, and is only about equal to that of the pig. The eye is very small, but extremely quick, and the ears are of great size. The average height of the male elephant is about ten feet from the wither or top of the shoulder. In the wild state, elephants live in troops, and inhabit only the most solitary forests of tropical Asia and southern Africa. The old males march at the head of the troop, the females and the young following in their rear. They live upon vegetable food, and never attack man or brute animals, but when attacked by them, they defend themselves with great courage and fury. The hunting of elephants in sone places, as in Ceylon, it an important affair. A great many men are employed, the animals are taken alive, sometimes 100 or 130 at a time, and sold the native princes in different parts of India. They are caught without much difficulty, and are readily tamed. In captivity they show great intelligence and decility, and are easily rendered most useful animals to man, though their reasoning powers have been very much exagerated. In ancient ti and are easily rendered most useful animals to man, though their reasoning powers have been very much exaggerated. In ancient times they were used in war, but nowadays they are only employed as beasts of burden, and in processions (Fig. 212), or in the chase. They are by no means courageous animals, and at the sound of fire-arms they become panic-struck and fly. They couple in the same manner as other quadrupeds. The teats of the female are situated on the chest; and the young suckle the teat with their mouths, and not with their trunks, as has often been alleged. Only two species are found recent. One, inhabiting Asia, Elephas Indicus, the Indian elephant, tenanting many parks species are found recent. One, inhabiting Asia, Elephas Indicus, the Indian elephant, tenanting many parts of India, from the Indus to the Rastern Ocean, and the adjacent large islands, especially Ceylon, has the molar teeth with narrow transverse ridges, and possesses four nails to the hind feet; while the other, inhabiting Southern Africa, Elephas (Lowdonta) Africanus, and found extending from Senegal to the Cape of Good Hope, has the molar teeth with losenge-shaped ridges, only three toes on the hinder feet, and very large ears. The tusks in this species are generally larger than in the preceding, and the females have them of considerable size also. The ivory obtained from the African elephant is more esteemed in the trade than that from the Indian species.—To this family belong also the extinct genera Man—To this family belong also the extinct genera Man—

The ivory obtained from the African elephant is more esteemed in the trade than that from the Indian species.

—To this family belong also the extinct genera Manmort and Masroson, q. v.

Elepham'time, a. Pertaining to the elephant.—Huge; resembling an elephant (Pul.) Noting a period distinguished for large pachy-dermatous animals resembling the elephant.

[Pul.) Noting a period distinguished for large pachy-dermatous animals resembling the elephant.

Elepham'time, a small island of the Nile, lying opposite to Assouan on the confines of Egypt and Nubla, in 24° 5° N. Lat., and 32° 34° E. Lon. It was anciently called Abu, or the "ivory island," from its having been the entrepot of the trade in that precious material. The most important ruins are a gateway of the time of Alexander, and a small temple founded by Ameuophis III, and embellished by Rameses III. Another remarkable edifice is the ancient Nilometer, formerly mentioned by Straleo, and which appears to have been built in the time of the Caesars. This island had the honor of giving a dynasty (the 5th) to Egypt, and was evidently an important place, the inscriptions on the rocks attesting the adoration paid by Sethos I., Paametokidus II., and other monarchs, to the local deities. See EGYPT

See EGYPT.

El'ephantoid. Elephantoid'al, a. [Gr. elephas, elephant, and oidos, form.] Elephant-haped.

Elephant-paper, n. A large kind of drawing-paper. Elephant-topus, n. [Gr. elephas, elephant, and toys, foot, aluding to the form of the leaves in some species.] (Bot.) A genus of plants, order Asteracer. They are perennial plants, erect, with alternate, subscalle leaves. Corolla violet-purple. One American species, E. Curolinianus, is found from Pennsylvania W. to Ohio, and S. to Louisiana. S. to Louisiana.

S. to Louisiana.

El'ephant's-foot, n. (Bot.) See ELEPHANTOPUS.

Elephant, (White.) a Danish order of knighthood of great antiquity. The number of knights is limited to 30, besides members of the royal family. The badge is a collar of elephants towered, supporting the king's arms, and having at the end the picture of the Virgin

arms, and having at the end the picture of the Mary.

El'eroy, in Illinois, a post-village of Stephenson co., abt. 8 m. W.N.W. of Freeport.

Eleu'sime, n. [Gr. Eleuss, where Ceres, the goddess of harvest, was worshipped.] (Bot.) A genus of plants, ord. Graminacce. They are annual grassy plants, one species of which, E. Indices, the Wire Grass, is common in the Middle and W. States.

Eleusin'iam Mysteries. (Antiq.) Festivals held annually, in Sept., at Eleusis, a town of Attica, in honor of the goddess Demeter, or Ceres. According to some anthorities, they were instituted by Cadmus, Ec. 1550; others refer their origin to Erichthonius, 8.0. 1494; but the usual opinion is that they were commenced by

molpus, the first hierophant, B. c. 1356. Great secrecy s observed in the celebration of the festivals, consist was observed in the celebration of the lestrain, consisting of the greater and lesser mysteries; and it was a capital offence to reveal any of the rites. They existed about 18 centuries, and ceased during the invasion of Alaric I., in 396. Hales says they were brought from Egypt to Attica, about 2. C. 1399, by Erechtheus, and that they were ultimately borrowed from the Jewish front of the proceder. feast of tabernacies.

Teast of tapernacies.

Elemsis, (\*sis\*is,) a decayed village of Attica, but, in ancient times, a city of Greece, 12 miles from Athens. The ancient highway which led to Athens is still the modern road, and the plain around the village is covered

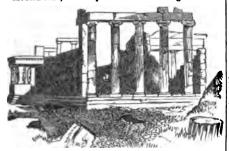


Fig. 929. - TEMPLE OF CERES

with scattered ruins. It was celebrated as the chief

with scattered ruins. It was celebrated as the chief seat of the worship of Ceres, whose temple here was the largest sacred edifice in Greece.

Eleu'thera, one of the Bahama islands; pop. 5,000.

Fileu'thera, one of the Bahama islands; pop. 5,000.

Fileu'thera, one of the Bahama islands; pop. 5,000.

It allow thera, islands of the Bahama islands; to exist; to exist to exist; to advance; to promote; to improve, refine, or dignify; to raise from or above low conceptions; to elate with pride; to cheer.

to cheer.

-a. Kraited; raised aloft; noble; as, "a temple proudly elevate." — Milon.

El'evated, p. a. Raised; exaited; dignified; elated; excited; made more soute or more loud, as sound.

El'evated, p. a. Raised; exalted; dignified; elated; excited; made more acute or more loud, as sound.

(Her.) Wings turned upwards.

Elevation, m. [Fr. dévation; Lat. devatio.] Act of elevating, or of raising or conveying from a lower or deeper place to a higher; act of exalting in rank, degree, or condition; state of being elevated; exaltation; an elevated state; dignity; exaltation of mind, character, or style; height; altitude; an elevated place or station; elevated ground; a rising ground; a hill or mountain; a passing of the voice from any note to one more acute; also a swelling or augmentation of voice.

(Eccl.) The E in the ritual of the mass, is the raising, first, the Host, then the cup, to receive the homage of the people as the body and blood of Jesus Christ. At the E a bell is rung for the people to look upon the Host. This ceremony was introduced into the Latin Church in the beginning of the 12th century.

(Arch.) A geometrical representation of a building measured vertically in respect of the horizon; called by the ancients the orthography. In general terms, the height of the building above the ground.

(Astron.) The angular height or the altitude of a celestial body above the horizon. Thus, the elevation of the pole and the horizon. Thus, the elevation of the pole and the horizon.

(Cen.) The inclination of the axis of the plece above the object aimed at, to allow for the failing of the shot by the action of gravity. It varies with the range.

(Gass.) The inclination of the axis of the piece above the object aimed at, to allow for the falling of the shot by the action of gravity. It varies with the range. (Dialling.) The angle which the style makes with the substyle line.

(Perspective.) Sometimes used for scenography, or perspective representation of the whole object or building Elevator, n. [Fr. élérateur.] He or that which ele

vates or raises.

vates or raises.

(Com.) The name given in the U. States to a building in which, by means of a mechanical contrivance, grain is stored direct from the ship or car.

(Surg.) An instrument with which surgeons raise any depressed portion of bone, especially of the cranial bones.

(Anal.) The term applied to various muscles of the body, whose action is to elevate the parts to which they are attached, as, the clerator muscles of the eyes.

are attached, as, the elevator muscles of the eyes.

(Mech.) A contrivance in buildings, for carrying persons, etc., from floor to floor, called in Eng., a lift.

Elevatory, a. Tending to raise, power to elevate.

Eleve, w. [Fr. Elev, from Elever, to raise, bring up, educate. See ELEVATE.] One brought up, or protected, by another; a pupil; a disciple; a scholar.

Eleven, a. [A. S. andelfene, endiufon, endlerfan—an for an, one, and larfan, to leave; Ger. ellf, elf.] One left after ten; one over the number of the fingers; ten and one added.

one added.

— A symbol of ten and one, as 11 or XI.

Eleven Points, in Missouri and Arkansas, a river rising in Oregon co., in the former State, and flowing S.E., enters the Big Black River in Lawrence co., Ark.

Eleventh, a. [Sax. andlyfta.] Next in order to the tenth

Elle Mer. [Heb., God is my help.] The natural servant of Mus.) The interval of the octave above the fourth.

Elf, n.; pl. Elves. [Sax. elf; L. Ger. elf; Dan. alf; Eligibil'ity, n. [Fr. eligibilite.] Quality or state of local. elf, a spirit, a demon, from el, a moving principle, a spirit, a demon, from el, a moving principle, a spirit.] A diminutive wandering spirit; a fairy; a hobmolim. Elves were honored more particularly by the Eligible, (el'i-jib-l.) a. [Fr. eligible, from Lat. eligo, and

Northern nations, in whose mythology they occupy a prominent place. They were divided into good and bad elves, and their exploits have given rise to a multiplicity of deliberation seems. of delightful stories.

Ye sylphs and sylphids, to your chief give ear, Pays, fairies, genii, elves, and demons, hear." — Pope,

A diminutive being; a dwarf.

-r. a. To entangle hair in so intricate a manner that it cannot be unravelled. — This was supposed to be the favorite work of elves in the night; and all hair so matted together received the name of elf-locks.

together received the name of el-locks.

Elf-arrow-head, Elfn-arrow, Elf-Bolt, Elf-Dart,
Elf-shot, Elf-shots, n. Popular names in Great Britain for those arrow-heads of flint which were in use at
an early period among the barbarous tribes of this country and of Europe generally, as they are still in use
among the American Indians, the Esquimaux of the

among the American Indians, the Esquimanx of the Arctic regions, and the inhabitants of some of the islands in the Pacific Ocean. It was believed that elves, or fairies, hovering in the air, shot these barbs of flint at cattle, and occasionally even at men.

El'fin, a. Relating, or pertaining, to elves or dwarfs.

—n. An elf; a little urchin.

Ell'fin, a. Resembling elves; clad in disguisc.

Elf'sin and Kinear'dine, Thomas Brucz, Earl or, an English stateman, B. 1777. He was ambassador to the Sublime Porte from 1789 to 1802, and availed himself of the opportunities of his station; he formed a vest collection of sculptures, and other antiquities, sold afterwards to the English government, and known as the Elgin Marbles. Much censure has been rightly lavished

wards to the English government, and known as the Elgin Marbles. Much censure has been rightly lavished on him by Byron and others, for mutilating the noblest monuments of Athens. D. 1841.

Elginmand Kimens dine, James Bruck, Earlor, an English statesman, E. 1811. He was appointed governor-general of Canada in 1846, and there very successfully grappled with the serious difficulties of the time, and carried out a conciliatory policy. In 1849 he was raised to the English peerage, with the title of Baron Eigin of Elgin. After administering the affairs of Canada for 8 years, he returned to England, and was sent as special ambassador to China, in 1857, where he signed the important treaty of Tientsin. Lord Elgin was again sent to China, in 1860, in consequence of a violation of the treaty by the Chinese government, entered Pekin in state, and obtained the enforcement of the treaty. Immediately after this success he was appointed governor-

state, and obtained the enforcement of the treaty. Immediately after this success he was appointed governor-general of India, where he died, 1863.

Eligin, a town of Scotland, co. Eligin or Moray, on the Lossie, 120 m. N. of Edinburgh; celebrated for the ruins of its cathedral, bullt in 1224, and one of the most mag-nificent in Great Britain. Php. 8,086.

nificent in Great Britain. Pop. 8,086.

El'gim, a S. W. co. of Prov. of Ontario, on the N. shore of Lake Erie; area, about 700 sq. m. Rivers. Otter and Thames creeks. Pop. (1885) 50,659. Cap. St. Thomas. Elgim, in Arkansas, a post-office of Jackson co.

Elgim, in Illisois, a thriving city of Kane co., on Fox river, 42 m. N. W. of Chicago. It is well-built, very pleasant, a manufacturing place, especially noted for its watch manufactures. It has four banks and good schools. Pop. (1897) about 27,000.

Elgim, in Iosa, a post-village of Fayette co., on Turkey river, about 66 m. N.W. of Dubuque.

Elgim, in Michigan, a post-office of Ottawa co.

Elgim, in Michigan, a post-office of Ottawa co.

Elgim, in Michigan, a post-office of Ottawa co.

Elgim, in Minnesota, a post-village and township of Wabashaw co., on the Minneska River, abt. 14 m. E. N.E. of Rochester.

Waddaniaw Co., so and Rochester.

Elgim, in New York, a post-village of Cattaraugus co., abt. 300 m. W. by N. of Albany.

Eli. [Heb., an offering.] A high-priest of Israel, and the last of the Judges, except Samuel, succeeded Samson abt. 1156 s. c. His too mild and gentle rule of the the last of the Judges, except Samuel, succeeded Samon abt. 1165 B.C. His too mild and gentle rule of the people, and excessive indulgence toward his wicked and alandoned sons, are powerfully recorded in 1 Samuel, chape. iv., xiv., and xxii. After a turbulent reign of 40 years, he p. 1116 B. C.

Eli'ab. [Heb., God, my father.] The elder brother of

DAVIG.

Eli'akim. [Heb., God of the resurrection.] The treas-urer to king Hezekiah.

Elias. (Mount.) the name of many summits in Greece, the highest of which is in the Mores, 10 m. from Mistra. Height, 7,829 feet

Elias, (Mount St.,) a range of mountains in Alaska,

G.v.

Eliashib. (c-li'a-shib.) [Heb., God of conversion.] A high-pricet of the Jews, after the captivity.

Eli'asite. n. (Min.) An oxide of uranium, of a dull reddish-brown color, with thin edges, red. Lustre, greasy or resinous. Found in amorphous masses more or less resin-like in aspect, or like gum.

Elic'it. v. a. [Lat. elicio. elicitus—e, ez, and anc. lacio, to entire, to allure; from anc. laz. lacis, fraud, deception.] To draw out; to entice out; to lure forth; to bring to light; to educe; to extract; to deduce by reason or argument.

night; to denote; to extract; to deduce by reason or argument.

Eli'da, in *Illinois*, a post-village and township of Winnebago co., abt. 190 m. N. by E. of Springfield.

Eli'da, in *Ohio*, a post-village of Allen co., abt. 7 m. N.W.

of Lima.

Bilde', v. a. [Lat. clido — e, ez, and ledo, to strike or dash against. See LESION.] To strike or dash out; to force out; to cut off a syllable.

Elie'seer. [Heb., God is my help.] The faithful servant

Eligibil'12y, n. [Fr. digibilit.] Quality or state of being eligible; or or things or fitness to be chosen; the state or quality of a thing which renders it preferable to another, or desirable.

lego, to choose.] Fit to be chosen; worthy of choice; preferable; suitable; proper; desirable.

El'igibleness, n. Eligibility.

El'igibly, adv. In a manner to be worthy of choice;

suitably.

suitably.

Eli'hu. [Heb., He is my God Himself.] The youngest and wisest of the four friends of Job.

Eli'jah, an eminent prophet of Israel, in the reigns of Ahab and Ahaxiah. He was greatly persecuted by Jezebel, the wife of Ahab, but escaped all her machinations, and was taken up to heaven in a chariot of fire, about 806 u.c.

Elim'elech. [Heb., my God is king.] The father-inlaw of Ruth.

naw of Ruin.

Elim'inant, n. (Math.) Same as Repellant, q. v.

Elim'inate, v. a. [Lat. elimino, eliminatus—e, ez, and
limen, threshold.] To turn out of doors; to expel; to

thrust out; to discharge or throw off; to set at liberty;

(Algeb.) To cause to disappear, as a quantity from an equation.

Elimina'tion, n. [Fr. elimination, from L. Lat. eliminatio.] Act of eliminating, or of expelling or throwing

Elimination, n. [Fr. timination, from L. Lat. climinatio.] Act of eliminating, or of expelling or throwing off; separation.

(Algob.) The operation by means of which, from a given system of equations, another is deduced in which one or more of the original unknown terms or factents no longer appears. Thus a system of m homogeneous eliminependent equations in m variables, or, what is equivalent, a system of m non-homogeneous equations containing m—1 unknown terms, cannot be satisfied by a common system of values of these variables unless a certain relation exist hetween the co-efficients. E. leads to the discovery of this relation; and the function which, equated to zero, expresses the same is called the resultant of the system of equations.

(Med.) The act of discharging or secreting by the pores.

Elimsport, in Pennsylvania, a post-village of Lycoming co., about 20 m. from Williamsport; pop. about 200.

El'10t, John, an American clergyman, commonly called "The apostle of the Indians," B. in England, 1604, was educated at Cambridge; but on embracing Puritanism, he, in 1631, emigrated to New England, and became pastor of a congregation of Independents at Roxbury, where he established a grammar-school. In 1646 he began to learn the Indian language, that he might devote himself to the conversion of the natives. In this he met with great success, and obtained a considerable influence over the various tribes. He translated the Bible into their language, and also several pieces of practical divinity. D. at Roxbury, 1600.—Baxter says of this divine, "There was no man on earth whom I honored more than him." A handsome memorial to perpetuate his name was erected in the Forest Hills Cemetery, at Roxbury.

Eli'phas. [Heb., the endeavor of God.] A son of Esan.

Eliquas'tion, n. [Lat. eliquatio, from eliquare, to liquefy, to melt out, from e, out, and liquary, to make liquid,

Int of usu.

Eliqua\*tion, n. [Lat. eliquatio, from eliquare, to liquefy, to melt out, from e, out, and liquare, to make liquid,
to melt.] (Metallurgy.) The separation of two metals
by fusion.

to meit.] (\*\*acadusrys\*\*) The separation of two metals by fusion.

E'lls, a country of Peloponnesus, lying to the W. of Arcardia and N. of Messins. It runs along the coast, and is watered by the river Alpheus. It was famous for the horses it produced, whose speed was so well known and tried at the Olympic Games.

Elisabeth. [Heb., God hath sworn.] The wife of Zacharias, and mother of John the Baptist.

Elisavetgrad, (\*ei-le-za-ret'grad.) a town and fortress of European Russia, govt. of Cherson, or Kerson, on the Ingul, 130 m. from Cherson; pp. 12,000.

Eli'sha, or Elissus. [Heb., salvation of God.] A Hebrew prophet, and the successor of Elijah, who called him from the plough. He performed numerous miracles, and was held in great respect by the kings of Israel and Syria. D. about 880 s.c.

Elish'eba. The wife of Aaron.

Eli'sha, n. [Fr. disson, from Lat. clisio. See Elide.] A striking or forcing out.

(Gram.) The cutting off or suppression of a vowel or syllable, particularly at the end of a word, for the sake of euphony.

Eli'ser, n. [Fr. diiseur, from clire, to choose. See Elizor.]

(Eng. Law.) Two persons appointed by the court to return a jury, when the sheriff and the coroner have been challenged as incompetent.

Elite', n. [Fr. diie; Lat. e, and log, lectus, to pick, to choose, to gather. See Elicoile.] A choice or select body; the chosen part, particularly of an army; the fluxus, boiled thoroughly—e, ex, and lix, lye, sahes, Arab. Asir; Hind. akseer.] That which is extracted by boiling, refining, &c.; the quintessence; refined spirit; an extract.

(Alchemy.) A liquor for transmuting metals into gold. Elis, a country of Peloponnesus, lying to the W. of Ar-

spirit; an extract.

(Alchemy.) A liquor for transmuting metals into gold.
(Med.) A compound tincture; any cordial; that substance which invigorates.

Ell'Es, in Alabama, a post-office of Jackson co.
Ell'es, in California, a village of Yuba co., on Feather river, about 5 m. 8. of Maryaville.

river, about o m. s. of marywine.
Eli'sa, in *Illinois*, a post-township of Mercer co.
Elis'sabeth, Queen of England, daughter of Henry
VIII., by his queen Anne Boleyn, g. 1633. When three
years of age, she lost her mother, who was beheaded,
and was herself immediately bastardised by Act of Parlament. By a last Act beyong the procession of the and was nersell immediately bastarilised by Act of ratifiament. By a later Act, however, the succession to the throne, was conditionally secured to her. E. was carefully educated, attaining, under the direction of Roger Ascham, considerable proficiency in Latin, French, and Italian, and some knowledge of Greek. She was brought

up in the Protestant faith. Marriage projects were early set on foot for her, and she entertained with more or less of sincerity numerous successive suitors; but he never married. She accompanied her sister Mary to London on her accession to the throne; but in the following year, immediately after the suppression of Wyatt's



Pig. 930. -- ELIZABETH.

(After a painting by Zucchero.) insurrection, she was arrested and sent to the Tower. insurrection, and was arreaded and self-to-distributed with the self-to-di The re-establishment of the Protestant lain and worship; conflicts in various forms with the adherents of the Romish system, who were also the enemies of E. as a Protestant sovereign; conflicts on the other hand with the Puritan party, ever growing stronger;—these were the staple of home transactions during this reign. For the staple of nome transactions during this regil. For-eign affairs also were almost entirely acts of the same drama, — the great struggle between the two religions. Pope Paul IV. refused to acknowledge E's title; Pius V. and Sixtus V. published bulls of excommunication against her, and absolved her subjects from their allegi-ance; the king of France supported the claim of Mary Queen of Scots, to the crown of England, and E. assisted queen of Scots, to the crown of England, and E. assisted the Protestants in Scotland, in France, and the Nether-lands; and above all, the struggle took outward shape and formidable dimensions in the threatened Spanish invasion and the "Invincible Armada." E. on her accession retained the principal advisers of her sister Mary, but added several eminent men to their number; among whom

among whom were Cecil, Lord Burleigh, who remained her first minister till his death; Sir Nicholas Sir Nicholas Bacon; and, at a later period, Sir Francis Walsingham. The imprison-ment and exe-cution of Mary, Queen of Scots, has been a fruitful occasion of reproach against Queen E; yet none can doubt that Mary sanc-tioned and took part in the plots and schemes which had for their object the dethroning of E, and the ele-



Fig. 931. - TOMB OF ELIZABETH. (Westminster Abbey.)

E, and the elevation of Mary (Westmioster Abbey.) vation of Mary to the through The personal character of E, has naturally been depicted in very different colors by Romanists and Protestants; exaggeration made on both sides, and the truth lying probably between the two extremes. Recent inquiries have resulted in a less favorable view than has been usual in England. Vanity in excess, selfishness, anwomanly hardness, love of exponse and display, indigence in bursts of passion, indelicate speech and manners, and fondness for worthless favorites (especially the earls of Leicester and Essex), are too obvious features of her character. But energy, and good sense, and a certain courage E, had too; for though the prosperity and progress that marked her reign must be attributed

to the wisdom and measures of her ministers, these ministers were her choice and had her support. Her reign was one of the greatest periods in English literary history,—the age of Shakspeare and Spenser, of Bacon and Raleigh and Hooker. It was an age too of the great enterprises and discoveries: as those of Drake, Frobisher, and other maritime heroes. E. D. at Richmond, March 24, 1603; her health and spirits having never recovered the shock they received by the execution of Essex, two years previously.

Elizabeth, Philippine Marie Heilene, commonly called Madame Elizabern, sister of Louis XVI. the faithful friend and companion of the royal family in their flight to Varennes, and during their imprisonment, b. 1764; executed, on the pretence of corresponding with

their flight to Varennes, and during their imprisonment, in 1764; executed, on the pretence of corresponding with her other brothers, afterwards Louis XVIII. and Charles X. by the revolutionists, May 10, 1794.

Elizabeth, Empress of Germany. Queen of Prusia. Princess Palatine, &c.

Elizabeth, in Milnois, a post-village of Jo Daviess co., abot. 18 m. S. E. of Gelena.

Elizabeth, in Milnois, a post-village of Jo Daviess co., abot. 18 m. S. E. of Springfield.

Elizabeth, in Indiana, a post-village of Harrison co., abot. 12 m. S. E. of Springfield.

Elizabeth, in Indiana, a post-village of Harrison co., abot. 12 m. S. E. of Springfield.

Elizabeth, in Indiana, a post-village of Harrison co., abot. 12 m. S. E. of Coydon.

Elizabeth, in Indiana, a post-village of Harrison co., abot. 12 m. S. E. of Coydon.

Elizabeth, in New Jersey, a city, cap. of Union co., abot. 5 m. S. by W. of Newark, and 15 m. W. S. W. of New Willington.

Elizabeth, in Onio, a township of Lawrence co.— abot. 35 miles E.N.E. of Zanesville.

A post-village of Hamilton co., abot. 18 m. W. of Cincinnati.

Elizabeth thown, in New Mexico, a post-village and township cap. of Essex co., on Boquet river, 35 m. S. by W. of Plattaburg. Pop. (1897) about 650.

Elizabeth town, in North Carolina, a post-village of Hamilton co., abot. 18 m. W. of Cincinnati.

Elizabeth town, in North Carolina, a post-village of Hamilton co., abot. 18 m. W. of Cincinnati.

Elizabeth, and the pretence of corresponding with the rother way. In Now Mexico, a post-village and town of Now Jersey. It contains many handsome and substantial public buildings, and several important manufacture co., on Pennsylvania R. R., 18 miles S. E. of Harrison co., on Pennsylvania R. R., 18 miles S. E. of Columbus.

Elizabeth, in Now Jersey. A city, cap. of Union co., abot. 2 m. S. by W. of Newark, and 15 m. W. S.W. of New Williage of Hamilton co., about 18 m. W. of Cincinnati.

Elizabeth in Now Jersey. A city, cap. of Union co., abot. 2 m. S. by W. of Newark, and 15 m. W. S.W. of New Williage of Hami

Eliz'abeth, in Pennigleania, a township of Allegheny co.—A township of Lancaster co., about 15 miles N. of Lancaster.—A post-borough in Alleghany co., on the Monongahela river, about 16 miles S. E. of Pittsburg.

Mononganeta river, about 10 mises. E. of Friesday. Fop. (1897) about 2,000.

Elizabeth, or Elizabethtown, in Virginia, a village of Wood co., on the Kanawha River, abt. 300 m. N.W. of Richmond.

N.W. of Richmond.

Elizabeth an, a. Pertaining to Queen Elizabeth, or to her times; as, the Elizabethun poets.

Elizabeth City, in N. Carolina, a post-town, cap. of Pasquotank co., on the Pasquotank River, about 215 m. E. by N. of Raleigh; pop. about 2,000.—On Feb. 10, 1862, E. was attacked by a National fleet of 7 steamers and a schooner led by commander S. C. Rowan. After a severe action of less than half an hour, the fort defending the tayen was executed, the town itself captured.

a severe action of tess than hair an hour, the fort defending the town was evacuated, the town itself captured, and the Confederate vessels burned in the harbor.

Eliz'abeth City, in Virginia, a S.E. co., bordering on Chesapeake Bay; area, about 50 sq. m. Rivers. Back River and Hampton Roads. It was one of the 8 original shires into which Virginia was divided in 1634.

Surface layed and factile Con Hampton Road. (1907). urface, level; soil, fertile. Cap. Hampton. Pop. (1897)

about 18,000. Eliz'abeth Furnace, in Virginia, a former post-office of Augusta co. Now Ferrol P. O. Eliz'abeth Island, in the Strait of Magellan; Lat 522 50' S. Lon. 90° 30' W. It is uninhabited.

Eliz'abeth Islands, in Massachusetts. They are 16 in number, very small, and lie between Buzzard's Bay and Vineyard Sound.

and Vineyard Sound.

\*\*Eliz'abeth Petrovna, empress of Russia, n. 1709, was daughter of Peter the Great. In 1741 she usurped the imperial throne, by dethroning the infant Ivan, which was effected without the shedding of blood. At which was effected without the sheeding or olosi. At her accession, she made a vow that no capital punish-ments should take place in her reign. But her human-ity was at least equivocal, for she afterwards inflicted upon the countesses liestuchef and Lapoukin the punishment of the knout, and had their tongues cut out for betraying some of her secret amours. Though dissolute in her manners, she was extremely superstitious, and performed her devetions with rigorous exactness. 1756 she joined Austria and France against Prussis. D. in 1762.

D. in 1762.

Eliz'abethport, in New Jersey, a manuf, and shipping town of Union co. on Staten Island sound; adjoining Elizabeth, of which it is now a part.

Eliz'abeth River, in Virginia, empties into Hampton Roads. A light-ship is stationed on Craney Island Flats, at its month.

Elizabeth, (St.,) daughter of Andreas II., king of Hungary, n. at Presburg, 1207. She early displayed what may be called a passion for the severities of the Christian life describing rooms avarice, ambition, cultivating may be called a passion for the severities of the Christian life, despising pomp, avarice, ambition, cultivating humility, and exhibiting the most self-denying benevolence. When only 14 years old, she married the landrave of Thuringia, Louis IV., who died in 1227. Great misfortunes soon befell her. She was deprived of her regency by the brother of her deceased husband, and riven out of her dominion on the plea that she wasted the treasures of the state by her charities. The inabitants of Marburg, whose miseries she had frequently relieved, refused her an asylum, for fear of the new regent. At last she found refuge in the monastery of Kitzingen, and when the warriors who had attended her nusband in the crusade returned from the East, she gathered them around her, and recounted her sufferings. het nusband in the crusade returned from the East, site gathered then ground her, and recounted her sufferings. Steps were taken to restore to the unfortunate princess her sovereign rights. She declined the regency, how-ever, and would only accept the revenues which accrued to her as landgraving. The remainder of her days were to her as landgravine. The remainder of her days were devoted to incessant devotions, almsgivings, mortifications, &c. There is something mournfully sublime in

her unnatural self-sacrifice. We shudder even in our sympathy when we read of this beautiful, tender-hearted creature washing the head and the feet of the scrofulous and the leprous. Murillo has a painting (now in the Museum at Madrid) of this act of evangelical devotion. At last her health gave way; and on the 19th November, 1231, she D. at the age of 24, and was canonized 4 years after her death. See Montalembert's Historia de Sainte Elisabeth de Hongrie, (Paris, 1836.) "Size" a heatheam in Transaceae a post-village, cap. of

toria de Sainte Elisabeth de Hongrie, (Paris, 1836.)

Elis'abethtom, in Tennessee, a post-village, cap. of Carter co., abt. 318 m. E. of Nashville. The village is pleasantly situated on an island at the junction of the Due and Watauga rivers.

Elis'abethtown, in Indiana, a post-town of Bartholomew co., about 7 miles S.E. of Columbus.

—A village of Jackson co., on White river, about 65 miles S. by E. of Indianajolis.

Elis'abethtown, in Kentucky, a city, cap. of Hardin co., on Valley creek, about 43 m. S. by W. of Louisville.

Pop. (1897) about 1,400.

Elis'abethtown, in New Mexico, a post-village of Colfax co.

cinnati.

Eliz'abethtown, in Pennsylvania, a post-borough of Lancaster co., on Pennsylvania R. R., 18 miles S. E. of Harrisburg. Has tannery, agricultural implement works, cigar factories, &c., and does a large trade in grain. Pop. (1897) about 1,500.

Eliz'abethville, in Pennsylvania, a post-village of Danable co.

Dauphin co.

Elizabetopol, a town of Russian Trans-Caucasia, Lat.
40° 42° N., Lon. 46° 20′ E.; pop. 15,000.

Elizaville, in Indiana, a post-village of Boone co.,
abt. 33 m. N.N.W. of Indianapolis.

Eli'maville, in Indiana, a post-village of Boone co., abt. 33 m. N.N. w. of Indianapolis. Eli'saville, in Kentucky, a post-village of Fleming co., abt. 70 m. E. by N. of Frankfort.
Eli'saville, in Kentucky, a post-village of Columbia co., abt. 42 m. 8. by W. of Albany.
Elik, n. [A.S. elch; Gr. alke.] (Zoll.) See Deer and Moose.
Elik, in Ionoa, a township of Clayton co.
—A post-office of Buena Vista co.
—A township of Sanilac co.
Elik, in Michigon, a post-township of Sanilac co.
—A township of Sanilac co.
—A township of Sanilac co.
Elik, in Penneylconia, a N.W. central co.; area, 760 sq. miles. Rivers. Clarion river, and the Bennetts and Driftwood branches of Sinnemahoning creek. Surface, uneven, and in the S. part mountainous, the most elevated part of which is Elk mountain, whence the name of the county. Soil, generally fertile. Cop. Ridgway. Pop. (1890) 22,239.
—A township of Chester co.
—Il Ka'der, in Iono, a post-town, cap. of Clayton co., on C. M. & St. P. R. R., 50 miles W. N. W. of Dubuque; in a dairying and stock-raising region. Pop. (1897) about 1,100.

Elik City, in Idaho, a post-village of Nez Percés co., on

Elk City, in Idaho, a post-village of Nez Percés co., on the S. fork of Clearwater river, about 140 miles E. by S.

of Lewistown.

Elk City, in *Minnesota*, a village of Sherburne co., abt.

5 m. N.W. of Humboldt.

5 m. N.W. of Humboldt.
 —A village of Todd co., on the Mississippi River, about 11 m. 8. of Fort Ripley.

 Elk Creek, in Indiana, enters the Muscatatuck River from Washington co.
 Elk Creek, in Iona, a thriving township of Jasper

Elk Creek, in Ioua, a thriving township of Jasper co.

Elk Creek, in Kansas, a township of Republic co.

Elk Creek, in Kansas, a township of Republic co.

Elk Creek, in Vensulonia, a post village of Spencer co.

Elk Creek, in Va., a former P. O. of Grayson co.

Elk Creek, in Va., a former P. O. of Grayson co.

Elk Creek, in Wisconsin, a P. O. of Trempealeau co.

Elk Creek, in Wisconsin, a P. O. of Susquebanna co.

Elk Cross Roads, in North Carolina, a village of Ashe co., about 20 W.N.W of Raleigh.

Elk Bale, in Pensulvania, a P. O. of Susquebanna co.

Elk Ford, in Ioua, a village of Jones co., about 35 m. N.E. of Iowa City.

Elk Grove, in California, a post-village of Sacramento co., abt. 18 m. S.E. of Sacramento.

Elk Grove, in Misconsin, a village of Iowa co., abt. 40 m. W. by S. of Madison.

A post-village and township of Lafayette co., abt. 20 m. N. of Galena.

El-k hargeh, (kar'gai,) a town of Upper Egypt, the cap. of the Great Oasis; Lat. 25° 28' N., Lon. 36° 40' E. Php. 6,000.

6.000 Elk'hart, in Illinois, a thriving township of Logan

co. Elk hart, or ELKHART CITT, in Ritnois, a post-village of Logan co., abt. 17 m. N.N.E. of Springfield. Elk hart, in Indiana, a N. co., bordering on Michigan; area, abt. 465 sq. m. Rivers. St. Joseph's and Elkhart rivers. Surface, undulating; soil, fertile. There are Digitized by GOOGLE

several lakes in the N. part, the largest of which is 2½ | Elktom, in Wisconsin, a village of Dunn co., on the m. in circumference. Cap. Goshen. Pop. (1890) 39,201. | Chippewa River, about 17 m. 8.E. of Menomonie. | An important city of Eikhart co., on the St. Joseph river and 3 lines of R.R., 15 m. E. of South Bend. Has good | Elkville, in Hinois, a post-office of Jackson co. including pe water-power and extensive manut., inc flour, starch, &c. Pop. (1897) abt. 15,200. A township of Noble co.

—A township of Noble co.

Elk'hart, in Iowa, a post-town of Polk co.

Elk'hart, in Wiscossin, a post-village of Sheboygan co.,
abt. 12 m. S.W. of Sheboygan.

Elk'hart Elver, in Indiana, rises in Noble co., and
flowing N.W., enters the St. Joseph in Elkhart co.
Length abt. 150 m.

Elk'horm, in California, a township of San Joaquin
co.

Elk'horn, in Illinois, a thriving township of Brown

A township of Carroll co.

—A township of Carroll co.

—A post-village of Logan co.

Elk Horn, in Iossa, a post-office of Shelby co.

Elk Horn, in Kassas, a township of Lincoln co.

Elk Horn, in Kassas, a village of Montgomery co.,
abt. 90 m. N.E. of Jefferson City.

—A village of Ray co., abt. 180 m. N. of Jefferson City.

Elk horn, in Wisconsin, a post-village and township,
cap. of Walworth county, about 40 miles W. of Ra-

Elk horn City, in Nebraska, a post-vill. of Douglas co., on the Elkhorn River, abt. 25 m. W.N.W. of Omaha

City.

Elkhorn River, in Kentucky, rises in Fayette co., and flowing N.W., enters the Kentucky River in Frank-

and nowing it. W., cases and in co.

Eik horm River, in Nebraska, rises in Holt co., and traversing Madison, Stanton, Cumming, Dodge, and Douglas cos., enters the Nebraska, or Platte, River abt. 30 m. above its junction with Missouri River.

Elk Lake, in Pransylvania, a P.O. of Susquehanna co. Elk lamd, in Michigan, a post-township of Tuscola co., abt. 40 m. E. of Bay City.

Elk lamd, in Pransylvania, a township of Sullivan

co.

A post-village and township of Tioga co., abt. 16 m. N. of Wellsborough.

Elk Lick, in Missouri, a village of Pike co., abt. 82 m. N. E. by N. of Jefferson City.

Elk Lick, in Pransylvania, a post-township of Somerset.

Elk Malls, in Temessee, a post-office of Carter co.

Elk Mountain, in Pransylvania, I. In the S. part of Elk co. a short distance S.E. of Little Tolly's creek.

II. In the S.E. part of Susquehanna co. Height of the latter abt. 2,000 feet.

Elik Peint, in South Dakota, a post-village, cap. of Union co., 20 m. N.W. of Sioux City, Ia. Pop. (1897) bt. 1.100.

abt. 1,100.

Elk'port, in lowa, a post-village of Clayton co., about 80 m. N. by E. of Iowa City.

Elk Rapids, in Michigas, a thriving post-township of Antrim co., on Grand Traverse Bay, 18 m. N.E. of Grand Traverse. Has saw-mills, chemical factory, blast furnace, &c. Pop. (1894) 1,514.

Elk Bidge Landing, in Maryland, on the Patapsco river, abt 7 m. 8.W. of Baitimore. Now a sub-station of Baitimore P. O.

Elk Biwer. in losser, a post-village and township of

Elk Elver, in lowa, a post-village and township of Clinton county, about 40 miles N.N.E. of Daven-

Nort.

Nort.

River, in Minnesota, a post-village and township, cap. of Sherburne co., on Elk River.

Elk (or C-waelly) Elver, in Missouri and Indian Territory, rises in McDonald co. of the former State, and flowing S.W., enters the Neosho River in Indian Territory.

Elk Elver, in Pennsylvania and Maryland, formed by the Big and Little Elk creeks, which rise in Chester co. of the former State, and unite in Cecil co., Maryland. Flowing S.W., it enters the Chesapoake Bay about 8 m. S.E. of Havre-de-Grace.

Elk Elver, in Transport and Alabama, rises on the

Elk Elver, in Tennesse and Alabama, rises on the N.W. slope of the Cumberland Mountains in Grundy co.

N.W. slope of the Cumberland Mountains in Grundy co. of the former State, and flowing S.W. Into Alabams, enters the Tennessee River from Limestone co.

Elk River, in W. Virginia, rises on the W. slope of the Greenbrier Mountain in Pocahontas co., and flows generally W. to the Great Kanawha River, which it enters at Charleston in Kanawha co.

Elk River Station, in Mismesola, in Sherburne co. See Elk River, Minn.

Elk Run, in Ohio, a township of Columbiana county.

Elk Run, in Pensylvania, a post-office of Tioga co.

Elk Run, in Pensylvania, a post-office of Tioga co.

Elk Run, in Kentucky, a former post-office of Warren county.

Elk Spring, in Missouri, a village of Pike co.
Elk ten, in Illinois, a village of Crawford co., abt. 130
m. S.E. of Springfield.

m. S.E. of Springfield.

Eliktom, in Kentucky, a post-village, cap. of Todd co., on Elk tom, in Kentucky, a post-village, cap. of Todd co., on Elk tom, in Maryland, a thriving manuf. town, capital of Cecil county, on the Elk river, at the confluence of its two branches. Pop. (1887) abt. 2,600.

Eliktom, in Missecota, a village of Carlton co., about 40 m. S.W. of Superior City.

Elktom, in Missecota, a post-village of Hickory co., abt. 100 m. S.W. of Jefferson City.

IN m. 8.W. of Jenerson City.

Elktom, in Ohio, a post-village of Columbiana co., abt.
159 m. N.E. of Columbias.

Elktom, in Oregon, a post-village of Douglas co., on the
Umpqua River, about 36 m. N.N.W. of Roseburg.

Elktom, in Transsee, a post-village of Giles co., on Elk

River, about 87 m. S. of Nashville

Elk ville, in N. Carolina, a post-office of Jackson co. Elk ville, in N. Carolina, a village of Caldwell co. Ell, n. [Sax. eine, el, elle; Lat. uina, from Gr. öléné, the elbow, the arm; W. elin, an angle, an elbow.] A meas-ure of length, said to have been originally the length between the ends of the extended arms, or a fathom. The English ell is 45 inches, or 5 quarters; the Scotch ell, 37-2 English inches; and the Flemish ell is 27 inches, or 3 cuarters.

eit, 3, 2 English inches; and the Fiemish eit is 21 inches, or 3 quarters.

Ellag ic Acid, n. [Formed from Fr. galle, gall reversed.] (Chem.) An insoluble acid found as a gray crystalline powder during the preparation of gallic acid. It is found as a product of animal life in certain intestinal concretions or besoars (q. v.) occurring in the

intestinal concretions or besoars (q. v.) occurring in the autelopes of Central Asia.

El'lagite, n. (Min.) Ferriferous NATIOLITE, q. v. El'laville, in Georgia, a post-village, cap. of Schley co., about 44 m. E. S. E. of Columbus.

Elleb'orine, n. (Chem.) An acrid resin obtained from the Hillehorne hyematis.

El'lenborough, in West Virginia, a post-village of Ritchle co., about 37 m. E. of Parkersburg.

El'lenborough, in Wisconsin, a township of Grant co., about 20 m. N. of Dubuque.

— A post-village of Grant co., on Platte River, about 7 m. S. E. of Lancaster.

Bl'lenburgh, in New York, a post-town of Clinton co., about 150 m. N. of Albany. El'lenburgh Centre, in New York, a post-office of

Ellemo'rah, in Maryiana, a p. C. Of Battimore co. Ellemo'rah, in Missouri, a post-office of Gentry co. El'Iensburg, in Washington, a thriving city, cap. of Kittitas co., on Nor. Pac. R.R., 126 m. E. of Tacoma; trade center of a large mining district and rich agricultural region. Pop. (1897) abt 3,400.
El'Ienville, in New York, a post-village of Ulster co., about 30 m. 8.8.W. of Albany.

El'Iersile, in *Georgia*, a post-village of Harris co., abt. 14 m. N.E. of Columbus.

14 m. N. E. of Columbus.
El Termilde, in Pensylvania, a village of Susquehanna
co., about 140 m. N.N.E. of Harrisburg.
El'Iery, William, one of the signers of the American
Declaration of Independence, E. at Newport, R. I., 1727.
He was appointed by President Washington collector of
his native town, and held this office till the end of his
long life. D. 1820.

El'lery, in *Illinois*, a village of Stephenson co.
El'lery, in *New York*, a post-village and township of
Chantauqua co., on Chautauqua Lake, about 56 m. S.S.W.

of Buffalo El'letsville, or Ellittsville, in *Indiana*, a post-village of Monroe county, about 7 miles N.W. of Bloom

ington. El'licott, in New York, a township of Chautauqua co.

El'Heett, in New York, a township of Chautauqua co, on Chautauqua Lake.

—A post-office of Eric co.

El'Heett City, in Maryland, a post-town, cap. of Howard co, on the Patapsco river, about 12 m. W. by S. of Baltimore. A portion of the town extends into Baltimore county. Pop. (1897) abt. 1,600.

El'Hiecttsville, in New York, a post-village and township of Cattaraugus county, on the Great Valley creek, about 400 miles W. of Albany.

El'Hiew, in Georgia, a post-village, cap. of Gilmer co.

El'Iljay, in Georgia, a post-village, cap. of Gilmer co... on the river of the same name, about 171 m. N.W. of on the rive.
Milledgeville.

mineugeville.

El'ijay River, in Georgia, rises in Gilmer co., and enters the Coosawattee at the village of Ellijay.

El'lington, in Connecticut, a post-village and township of Tolland county, about 20 miles N.E. of Hartford.

El'lington, in Illinois, a township of Adams coun-

ty.

El'lington, in Inua, a post-office of Hancock co.

El'lington, in Michigan, a post-township of Tuscola
county, on Cass River, about 95 miles N. of the city of
Detroit.

Detroit.

El'lington, in Minnesola, a post-village and township of Dodge co., abt. 16 m. S.E. of Faribault.

El'lington, in New York, a post-twp. of Chautauqua co., about 25 m. E. of Maysville.

El'lington, in Wisconsin, a village and township of Outagamie county, about 36 miles W. by S. of Green

El'lingwood's Corners, in Maine, a post-office of

York co.
El'11ot, in Maine, a post-village and township of York co., about 46 m. S.W. of Portland.
El'11ott, in California, a post-village and township of San Joaquin county, about 22 miles N. by E. of Stockton

Stockton.

El'liott, in Iowa, a post-township of Montgomery co.

Elliott, in Iowa, a post-township of Montgomery co.

Elliott, and Elliott, in Missessia, a village of Fillmore co., about 14 m. S.E. of Preston.

El'liottsburgh, in Penna., a P. O. of Cumberland co.

El'liottsville, in Ohio, a village of Jefferson co., on the Ohio river, about 145 m. E. by N. of Columbus.

El'liottsville, in Penna., a post-office of Fayette co.

Ellipse, n. [Fr., from Gr. Ellipsis, an omission or defect, from ellepsis, to leave—so called from being defective in one of its properties as compared with the parabola.]

(Geom.) A figure of an oval shape, representing approx-

imately the shape of the planetary orbits. It is a curve of the second order, and is a conic section, formed by cutting a right cone by a plane passing obliquely through its opposite sides. The section of a cone formed by a plane passing through it at right angles to its axis is a

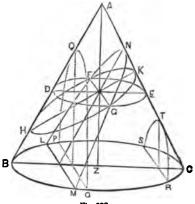
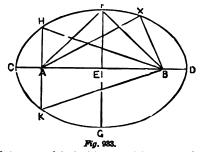


Fig. 932.

circle. If the plane cuts the cone in a direction parallel to its surface, the conic section so formed is a parabola; but any section formed by the passage of a plane through the cone at any angle to its axis between a right angle and the angle at which the surface of the cone is inclined to the base, is an ellipse. To make this clear, let ABC (Fig. 932) represent a cone; any section of this cone at right angles to the axis A Z, or parallel to the base, as the section D F E G, will be seen at once to be a circle. Let the plane passing through the cone in the base, as the section D F E G, will be seen at once to be a circle. Let the plane passing through the cone in the section D F E G be now supposed to revolve about F G, a diameter of the circle D F E G, as about an axis, any section of the cone, as II F K G, made in its revolution from its original position when it was at right angles to the axis, until it assumes a position L F N G M, parallel to the surface of the cone, is an ellipse. The section of the cone formed by the last-named portion of the plane is a parabola. When the cutting plane is in a direction parallel to the axis, as O Q P or R T S, the curve thus formed is a hyperbola. In Fig. 233, CF D G represents a perfect ellipse. The points A and B are called its foci, C D its greater axis, and F G its lesser axis. C is its center, and the fraction represented by E B as the numerator, and E D as the denominator, its eccentricity. The lines drawn from any point in the circumference to the



foci are termed the focal distances of that point, and the sum of these is the same for every point in the circumference, since the curve is generated by the revolution of a point controlled by a cord, equal in length to the greater axis C D, and fustened at the ends to the foci A B; thus, AC+CB=AH+HB=AF+FB=AX+XB, &c. The line drawn through either of the foci parallel to the lesser axis, as H K, is called the latus rectum of the sullings.—There are various contributes for describing the lesser axis, as H K, is called the latus rectum of the ellipse. — There are various contrivances for describing an ellipse, called ellipsographs or elliptic compasses. The simplest method of description is to fix on a plane the two ends of a thread with pins in the foci, and make a pencil move on the plane, keeping the thread constantly stretched. The end of the pencil will trace an ellipse, whose major axis is equal to the length of the thread.

\*\*THE WAIS A. \*\* OF THE PROPERTY [Gr. elleiptic See Fills W. 1988]

thread. Ellip'sis, n.; pl. ELLIPSES. [Gr. elleipsis. See ELLIPSE.] Defect; omission; an ellipse. (Gram. and Rhet.) The omission of a word necessary to complete the expression or sentence in its usual form; as, "The house we saw," instead of "The house that we saw." The object of E is shortness and impressiveness; accordingly to prevail in prevail in the content of the saw."

saw." The object of E. is shortness and impressiveness; accordingly it prevails in proverbs.

(Printing.) Applied to various marks used to denote the omission of letters or words, thus, [—] [\*\*\*] [....].

Ellip'sograph., n. [From Lat. ellipsis, and Gr. graphein, to write.] (Geom.) An instrument for describing an ellipse.—See ELLIPSE.

Ellip'soid, n. [Fr. ellipsoide, from Lat. ellipsis; Gr. elleipsis, and eidos, form.] (Geom.) A surface of the second order, which is cut by every plane in an ellipse. The most interesting species is called the Spheroid, q. v., from the fact of the form of the earth being spheroidal.

Ellip'soid, Ellipsoid'al. a. Relating to, resembling, or shaped as, an ellipsoid.

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of Watertown.

Ellisburgh, in Prinsylvania, a P. O. of Potter co.

El'lis Grove, in Illinois, a P. O. of Randolph co.

El'lis Islamd, in New Fork, abt. 1 m. below the city, in New York Bay. Here is located the principal immigration station of the port of New York.

El'lison, in Illinois, a post-township of Warren co.

El'lis Eliver, in New Humpshire, enters the Saco river from Consea.

El'lis River, in tree sampens,
Fin Cose co., abt.
140 m. W. by N. of Albany.
El'listom, in New York, a village of Onondaga co., abt.
140 m. W. by N. of Albany.
El'listown, in Mississippi, a village of Pontotoc co.,
about 45 m. S. E. of Holly Springs.
El'lisville, in Rinois, a post-village and township of
Fulton co., on Spoon River, about 45 m. W. by S. of Peoria.

ration co., on spool raiver, about as in. W. by S. of Feoria.

El'Iisville, in N. Carolina, a P. O. of Bladen co.

El'Iisville, in Mississippi, a post-village, cap. of Jones co., on Talishalia River, about 144 m. S.E. of Jackson.

El'Iisville, in Missouri, a village of St. Louis co., abt. 22 m. W. of St. Louis.

El'Iisville, in Virginia, a post-village of Louisa co., about 60 m. N.W. of Richmond.

El'Iisville, in Wisconsin, a P. O. of Kewaunee co.

Ello'ra, Elora, or Eluxu, a village of Hindostan, in the Nizam's dom., prov. Aurungabad, in abt. Lat. 19° 58' N., Lon. 72° 22' E.; celebrated for some remarkable cave temples, excavated in the solid rock, which in magnitude and perfection surpass all other constructions of the kind in India. The greatest and most splendid is the Kylaz, or "Paradise" (Fig. 934), a pagoda consecrated to Siva, 100 ft. high, surrounded by five chapels



Fig. 934. — TEMPLE OF KYLAS ("THE PARADISE"). (Ellora.)

nearly similar in form; the whole, together with the area in which they are situated, being excavated in the solid rock, and covered with sculpture from top to bottom, both within and without. The extreme depth of the excavation is 401 feet; the area itself is 323 feet in depth, by 186 feet in its greatest breadth.

Ellis worth, in Connecticut, a post-village of Litchfield co., about 50 m. W. by N. of Hartford.

Ellis worth, in Kassas, a central co.; rolling prairie and fertile soil; very little timber. Area, 729 sq. m. Pop. (1890) 8,873. Cap. Elisworth.

—A city, cap. of above co., 66 m. E. of Hayes City; in grain and live stock region. Pop. (1897) about 1,600.

Ells worth, in loses, a post-town of Hamilton co.

Elliptic, or Aliptical, a. [Gr. elleipticos.] (Geom.) Pertaining to an ellipse: having the form of an ellipse.
(Gram. and Rhet.) Having parts or words untited; as, an elliptical sentence.

Elliptically, ac. According to the figure called an ellipse.
(Gram. and Rhet.) With a part omitted.

Elliptic Compasses, n. (Geom.) A name given to various contrivances for describing an ellipse being elliptical; deviation from the form of a sphere or circle. (Applied to the figure of the earth.)

Elliptic-lant/coolate, a. (Bot.) Having a form between elliptic and lanceolate.

Ell'iis, in Teras, a N. E. central county: area, 260 sq. m.

Ell'iis, in Teras, a N. E. contral county: area, 260 sq. m.

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Ell'iis, in Teras, a N. E. contral county: area, 260 sq. m.

Ell'iis, in T about 30 m. S.E. of Bangor.

Ell'well, in Panayleania, a post-office of Bradford co.

Ell'well, in Panayleania, a post-office of Bradford co.

Ell'well, in Panayleania, a post-office of Bradford co.

Ell'well, in Panayleania, a the state of the Friends, a at Crowell, 1639. He was bred in the tenets of the Church of England, but was induced to join the Quakers, through which he lost the favor of his father. He became reader to Milton, and turned to good account the opportunity thus afforded him of making up for the deficiencies of his early education. E. suffered imprisonment for his religion, and wrote a number of books in its defence. He also edited George Fox's Journal, and published a history of the Old and New Testaments; a sacred poem on the life of David, &c. During the raging of the plague in London, in 1665, he obtained a retreat for Milton at Chalfont; and here he is said first to have suggested the idea of the "Paradise Regained." D. 1713. D. 1713.

to have suggested the idea of the "Faraduse Regained." D. 1713.

Ell'wood, or Elwood, in \*Minoris, a post-village of Will co., about 9 m. 8. by W. of Jollet.

Ell'wood, in \*Maryland, a P. O. of Dorchester co.

Ell'wood, in \*Pennyland, a P. O. of Schuylkili co.

Ellm, a [Sax.elm; Du. olm; Ger. slme; Dan. sem, alm; Icel. dimer; Lat. slmus. Etym. unknown.] (Bot.) A well-known tree, several species of which are valuable for their timber. See Ulmus. Putnam co.

Ellm, in \*Michigon, a post-office of Wayne co.

Ellm, in \*Michigon, a post-office of Jackson co.

El'ma, in \*New York, a post-township of Erie co., 10 m.

E. S. E. of Buffalo. \*Pop. (1897) about 2,250.

El'ma, in \*Washingdon, a post-own of Chehalis co., about 15 m. E. of Montesano.

Elm Branch, in \*Missuri, a village of Lawrence co.

Elm Branch, in \*Missuri, a village of Lawrence co.

Elm Branch, in \*Texas, enters the Nucces river in Dimmit co.

Dimmit co.

Dimmit co.

Elimendar'o, in Kansas, a village of Lyon co., about
15 m. S. E. of Emporia.

El'mer, in New Jersey, a post-town of Salem co., 126 m. S.
of Camdon; has manuf. interests. Pop. (1887) abt. 1,400.

Elim Grove, in Illisois, a post-office of Adams co.

Elim Grove, in Iosea, a flourishing township of Louisa
county.

county.

-A village of Marion co., abt. 88 m. W. S.W. of Iowa City.

- A village of Marion co., abt. 88 m. W. S.W. of Franklin co. Elm Grove, in Massachusetts, a P. O. of Franklin co.
Elm Grove, in Missouri, a village of Clay co., on
Smith's Fork of Platte River, 28 m. N. by W. of Inde-

pendence.
Elmi'ma, (St. George DEL MINA,) a seaport-town of W.

Elmi'sma, (8r. GEORGE DEL MINA.) a seaport-town of W. Africa, in Ashantee, former cap. of the Dutch settlements, and burned by the English in 1873 during the Ashantee war. Pop. 10,000.

Elmira, in New York, a city, cap. of Chemung co., 160 m. W.S.W. of Albany and 275 m. W.N.W. of New York by rail. It is handsomely laid out in a broad and fertile valley. The Chemung canal connects it with Seneca lake, the Junction canal with central Pennsylvania, and the Erica and Norther Control relined with New lake, the Junction canal with central Pennsylvania, and the Eric and Northern Central rallroads with New York, Philadelphia, &c. Newtown creek furnishes abundant water-power. There are rolling-mills and other iron works, manuf. of boots and shoes, flour-mills, and the result of the results abundant water-power. There are rolling-mills and other iron works, manuf. of boots and shoes, flour-mills, breweries, &c. Here are located a State Reformatory and the Elmira Female College. The city is handsomely laid out and contains many beautiful residences and several fine parks; has an excellent fire department and water system, and an extensive and growing trade. Pop. (1897) about 35.000.

El'ano, (Fire of St.,)m. A name given to the meteor known as Castor And Pollux, q. v.

El Monte, (elmon'tā,) in Culifornia, a village and township of Los Angelos county, about 13 miles E. of Los Angelos

Angelos. **El'more,** Alfred, a.B.A.

snip of Los Angelos county, about 13 miles E. of Los Angelos.

El'smore, Alfred A.R.A., a distinguished Irish artist, B. at Clonakilty, Cork, 1816. Among his works, which are numerous, we may specify The Inventor of the Stocking-loom; Lenore; On the Housetops; Two Women at the Mill. The last three were at the "Centennial" Exhib. (Philadelphia, 1876). His methods of handling and coloring were extremely refined and delicate. D. 1881. El'smore, Go. a vill., of Talbot co., about 62 m. W. of Macon.—In Ill., a p.-vill. of Peoria co., about 30 m.N.W. of Peoria.—In Ind., a twp. of Daviess co.

Elmore, in Minnesota, a post-township of Faribault co., about 5 m. S. of Blue Earth City.

Elmore, in Nebruska, a former P. O. of Richardson co. Elmore, in Otho, a post-village of Ottawa co., on Portage river, about 17 m. S. E. of Toledo. Pop. 1, 200.

Elmore, in Vermont, a post-town and township of Lamoille co., about 7 m. N. by E. of Montpeller.

Elm Point, in Illinois, a former post-office of Bond co. Elm Elwer; in Illinois, a former post-office of Bond co. Elm Elwer; in Illinois, enters the Little Wabash in Wayne co.

Wayne ∞

Eln ford, in New York, a post-office of Westchester

Elecu'tionary, a. Pertaining to elecution, or containing it.

Elecu'tionist, n. One who is versed in elecution, or who treats of the subject.

Elege', n. [Fr., from Lat. elegism, a short saying, an inscription on a tombetone, from legus, Gr. leges, speech, from legein, to speak; It. elegis.] This word, which, literally, denotes praise, is more particularly applied to orations delivered in honor of a deceased person. When a member of the French Academy dies, it is the custom for his successor to deliver a meneviries cration setting. for his successor to deliver a panegyrical oration, setting forth his labors and merits. These éloges are generally printed and published, and some of them form eloquent and valuable contributions to literature.

and white the contributions to interactive.

Bullow, imm, or El'oux, n. [Fr. lloge; Lat. elogium. See
Euloux.] An utterance; a short saying or maxim; the
praise bestowed upon a person or thing; panegyric; an

enlogy.

Elo'him, s. [Heb.] One of the names given to God in

Elohis'tie, a. (Scrip.) Applied to those parts in the Old Testament, where the word Elohim is used instead of Jehovah.

of Jchovah.

Eloigm, (c-loin',) v. a. [O. Bng. cloigne; Fr. Cloigner, from
L. Lat. clongre.] To put at a distance; to remove far
from another; — written also clois. (a.)

Elom, the twelfth judge of Israel, and the second after
Jephthah, succeeded Ilean about A. M. 3830; he was descended from the tribe of Zebulun, and after governing
the republic for the space of ten years, died A. M. 3840,
or, according to the nearest computation, B. O. 1870.

Elom'gate, v. a. [L. Lat. clongo, clongatus — e, ez, and
longus, long.] To lengthen; to extend; to remove
further off.

Elon'gate, Elon'gated, a. (Rat.) Applied to any

further off.

Elon'gate, Elon'gated, a. (Bat.) Applied to any
part in a plant which exceeds the common proportional
length by its breadth.

Elon'gated, p. a. Lengthened; removed to a distance.

Elongation, s. [Fr.] Act of stretching or lengthening; state of being extended; distance; space which
separates one thing from another; extension; continuation.

tion.

Elonga'tion, n. (Astron.) [Lat. e, and longus. long.] The apparent angular distance of a planet from the sun. The greatest E. of Mercury is about 28½°; that of Venus, about 47° 48′. The E. of the superior planets may have any value from 0° to 180°.

(Surg.) An incomplete luxation, in which the ligaments of an articulation are stretched, and the limb lengthened, without total luxation.

Elope', r. i. [Sax. hleápan, to leap. See Leap.] To start away: to run away: to quit one's station, without permission or right; to escape privately; to run away from a husband with another man, or to quit a father's or guardian's house privately with a gallant.

or guardian's house privately with a gallant.

Rope'ment, n. Act of eloping; private or unlicensed departure from the place or station to which one is as-

Elope ment, n. Act of eloping; private or unlicensed departure from the place or station to which one is assigned by duty or law, particularly of a wife from her husband, or a daughter or ward with a gallant.

Elops, n. [Lat. elops, ellops, helops; Gr. elops, ellops, originally signifying mute.] (Zold.) The Sein-fish, or Sea galley-wasp of the W. Indies, a small fish about 15 inches long, and of a silvery-gray color.

El'oquence, n. [Fr. eloquence, from Lat. eloquentia, from eloquor, eloquena—e, ex, and loquor, to speak.] A speaking out; the force of speaking; power, beauty, and appropriateness of language; the expression of strong emotions in a manner adapted to excite similar emotions in the minds of others.—The art of clothing the thoughts in the most suitable expressions, in order to produce conviction or persuasion.—See Rheyous.

—In its primary signification, E had reference to public speaking alone; but as most of the rules for public speaking alone; but as most of the rules for public speaking are applicable equally to writing, the word was extended to both.

El'oquent, a. [Fr. eloquent; Lat. eloquens.] Relating to or having eloquence; having the power of oratory; having the power of expressing truth or strong emotions in a vivid and appropriate manner; adapted to express truth or strong emotion with elegance and power.

El'oquently, adv. With eloquence; in an eloquent manner.

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El'ora, a village of Hindostan. See ELLORA.

El'ora, a village of prov. of Ontario, co. of Weilington, at the junction of the Irvine and Grande rivers, abt. 12 m. N. W. of Guelph. Pop. 1,498.

El Pas'e, or El Paso del Norre, or El Passo, a line of settlements, abt. 10 m. in length, extending along a fertile and narrow valley upon the Rio Grande, in the Mexican State of Chilushua, about 350 m. S. by W. of Santa Fé. It is the principal thoroughfare between New Mexico and Mexico. Pop. (1897) abt. 5,000.

El Passo, in Colorado, an E. central co.; area, about 2,600 sq. in Riesers, Squirrel creek, and other small tributaries of the Arkansas river. Surface, generally mountainous, the most elevated point being Pike's Peak, in the W. part, which is 14,147 feet high. Soil, in some parts fertile. Miss. Gold. Cap. Colorado Springs. Pop. (1890) 21,239. 1890) 21,239.

(1890) 21,239.
El Paso, in Illisois, a city of Woodford co., about 18 m. N. of Bloomington. Pop. (1890) 1,353.
El Paso, in Missouri, a village of Atchison co., about 75 m. N. W. of St. Joseph.
El Paso, in Tezza, a W. co., bordering on Mexico and New Mexico; crea, 9,750 sq. m. Cop. El Paso. Pop. (1890) 15 678.

New Mexico; crea, 9,750 sq. m. Cap. El Paso. Pop. (1890) 15,678.

A city, capital of El Paso county, on the Rio Grande, opposite El Paso in Mexico. Pop. (1897) abt. 12,500

El Paso, in Wisconsin, a post-village and township of Pierce co., on Rush river, about 22 m. E. of Prescott. Pop. (1897) about 950.

El Pen'on, a fortified elevation, about 8½ m. E. of the city of Mexico, to which it commands the E. approach. El'phin, a town, parish, and bishop's see, of Connaught, co. of Roscommon, Ireland, about 17 m. W.N.W. of Longford. Bullyoughter, in the vicinity, is the reputed birthford. co. of Roscommon, Ireland, about 17 m. W.N.W. of Longford. Ballyoughter, in the vicinity, is the reputed birthplace of Oliver Goldsmith. Pop. of parish about 1,600.

El Rosa'rio, a town of Mexico, State of Cinalos, abt.
55 m. E.N.E. of Mazatlan; pop. abt. 5,000.

El'rey, in Wisconsia, a city of Juneau co., on the Baraboo river, 70 m. N.W. of Madison. Pop. (1885) 1,600.

El'sah, in Illinois, a post-village and twp. of Jersey co.

Elise, a. or pron. [A. S. elles, else; O. Ger. alles, another;
Lat. alias, Gr. allar, other, not the same.] Other; one or
something besides.

something besides.

something besides.

-adv. Otherwise; in the other case; if the fact were different; besides; except that mentioned.

Else/where, adv. In any other place; in some other place; in other places: indefinitely.

Else/Beth, a town of Oldenburg, on the Weser, 12 m.

Else, in Michigan, a post-office of Clinton co.

Else, in Michigan, a post-office of Clinton co.

EXIMPOPOUGH, in New Jersey, a township of Salem co.

Elsimopre, or ELSINEUR, (el'ac-nor.) a seaport of Denmark, on the E. coast of the island of Zealand, 24 m. from Copenhagen; Lat. 56° 2' 11" N., Lon. 12° 36' 49" E. It stands in the narrowest part of the Sound, on a declivity inclining towards the shore. It has no harbor, but an excellent roadstead, generally crowded with vessels going upor down the Baltic, and anchoring here to take in stores of some kind or other, the supply of which forms the great traffic of the place. On its N.E. side is the fortress of Kronborg. Php. 11.376. — This town is the scene of Shakspeare's tragedy of "Hamlet," and the vanits of the castle of Kronborg are the fabled residence of Holger Danake, the mythic hero of the Danes. The Sound-dues were here collected from all merchantvessels, except those of Sweden and Denmark. They were originally instituted for keeping up lights and landmarks on the Cattegat and neighboring coasts. In April, 1867, a treaty was concluded between Denmark and the principal European powers, for the redemption of the Sound-dues.

April, 1607, a treaty was concluded between Demmark and the principal European powers, for the redemption of the Sound-dues.

EisTer, Theresa, and Fanny, eminent dancers, B. at Vienna, the former in 1808, and the latter in 1811. Though the two sisters almost invariably danced together, the younger was the more celebrated. In 1830 they made their appearance at Berlin, creating an extraordinary sensation. After this, the career of Mdlle. Fanny in particular was one continued ovation, and at Vienna, St. Petersburg. London, and Paris, her receptions were most enthusiastic. In 1841, the two sisters came to this country, where they excited unwonted enthusiasm. In 1851, Fanny E., having amassed a fortune, retired to a villa purchased by her near Hamburg. D. 1884. While Therese E. contracted a morganatic marriage with Prince Adalbert of Prussia, and D. in 1878.

Effective Essay, in Alaska, an arm of the Arctic Ocean, a short distance E. of Port Barrow; Lat. 71° N., Lon. 186° W.

Elster, two rivers of Germany, one of which, the White Elster, rises in Voightland, Bohemia, and falls into the Saale, 3 m. from Halle; the other, called the Black Els-

Saale, 3 m. from Halle; the other, called the Black Eleter, rises 2 m. from Histra, in Saxony, and falls into the Elbe, 8 m. from Wittenberg.

El'40m, a sait-lake of Russia, 170 m. S.S.E. from Saratov;
Lat. 45 69 N. Lon. 46 40 E.; area, 130 sq. m. 100,000 tons of sait are annually obtained from this collection of water. It is at no place more than 15 inches in depth.

El'40m, in New York, a post-village of Cattaraugus co., about 300 m. W. of Albany.

El'40m, in Wiscossia, a post-office of Langlade co.

El-Tyh, (Desert of 90 years. The name is applied to the peninsula between the gulfs of Suez and Akabah, and Egypt and Palestine.

Elm'eddate, v. a. [Fr. élucider, from L. Lat. elucido. elucidatus — e, ex, and lucidus, clear, bright.] To make clear, bright, or manifest; to free from obscurity; to ilustrate; to clear up; to explain.

lustrate; to clear up; to explain.

Elucida 'tiom, n. [Fr. flucidation.] Act of elucidating; act of explaining or throwing light on any obscure sub-

ject; explanation; illustration; exposition; annotation;

ject; explanation; illustration; exposition; annotation; comment.

Elu'cidative, a. Making clear; explanatory.

Elu'cidator, n. One who explains; an expositor.

Elu'cidatory, a. Tending to elucidate.

Elude', v.a. [Fr. cluder; Lat. clude-e, ex, and ludo, to play.] To avoid by artifice, stratagem, wiles, deceit, or exterity; to baffe; to foil; to evade; to escape; to shun Elud'ible, a. That may be eluded or escaped.

Elul, n. [Heb., from dlad, to gather, reap, harvest; Aramaic, alal, corn, grain.] The 12th month of the civil Jewish year, and the 6th of the ecclesiastical, answering to a part of Angust and September.

Elu'sion, n. [L. Lat. clusio.] Act of eluding; an escape by artifice or deception; evasion.

Elu'sively, a. That eludes; practising elusion; using arts to escape; evasive; delusive.

Elu'sively, a. Tending to elude or deceive; evasive; fraudulent; fallacious; deceitful; deceptive.

Elut'sory, a. Tending to elude or deceive; evasive; fraudulent; fallacious; deceitful; deceptive.

Elut'sory, a. [Lat. clutre, clutum, from e, out, and lucre, to wash.] To wash off; to cleanse; to clutriate.

Elu'triate, v. a. [Lat. clutrio, clutratus, from cluo-e, ex, and tuo, lutum, to wash.] To purify by washing; to cleanse, as a pulverulent substance, by separating four matter, and decanting or straining off the liquor.

Elutriation, n. [Lat. clutrio, it cleanse.] (Chem.) A process employed for separating substances reduced to powder, when of different specific gravities, by means of water. The materials being placed in a vat of water and kept in a state of agitation, a stream of water flowing through the vat floats away the finer particles, which being allowed to settle in other vata, the water may be run off from the surface. The process is employed in separating metals from their ores, in the

which being allowed to settle in other vats, the water may be run off from the surface. The process is employed in separating metals from their ores, in the manufacture of materials used in pottery, and in the preparation of pigments. Gold-washing is a rough E. El'wan, a. Relative to elves; elvish.

Elvan, (ailwass,) a strong frontier-town of Portugal, in the province of Alentejo, situate on a rocky hill, not far from the Guadians, and 10 m. from Badajoz. It is one of the most important strongholds in the kingdom, and has a cathedral, several churches, convents, a college, seminary, hospital, arsenal, and a bomb-proof barrack capable of containing 6,000 or 7,000 men. It is supplied with water by a Moorish aqueduct. — Manuf. Jeweiry and arms. Pop. 18,481. In 1808 it was captured and held for five months by the French.

neu for nve months by the French.
El'waston, in Elinois, a post-village of Hancock co.,
abt. 10 m. E. by N. of Keokuk.
El'wer, n. (Zoz.) A young Conger, or sea-eel.
Elver, n. The plural of Elr, q. v.
Elver, n. i lowa, a post-village of Clinton co., abt. 9 m.
W. of Lyons.

w. of Lyons.

Elv'ish, a. Same as ELVISH, q. v.

El'win, in Illinois, a post-village of Macon co.

El'wood, in Illinois, a post-village of Will co., 9 m.

S. by W. of Joliet.

El'word, in Illinois, a post-village of Macon co.

El'wood, in Illinois, a post-village of Will co., 9 m.

S. by W. of Joliet.

Elwood, in Indiana, an important town of Madison co.,

44 m. S. E. of Logansport. Pop. (1897) about 12,000.

Elwood, in New Jorse, a post-village of Minlo co.

Elwood, in New Jorse, a post-village of Atlantic co.

Elwood, in New Jorse, a post-village of Atlantic co.

Elwood, in New Jorse, a post-village of Atlantic co.

Ely, a city of England, chief town of the Isle of Ely (see Bedden Level), and an episcopal see, 16 m. from Cambridge; noted for its fine cathedral, built between the religns of William Rufus and Edward III. Pop. 7,000.

E'ly, a demesne of Ireland, in Ulster, 4 m. from Enniskillen. It includes several woody islets about the head of Lower Lough Erne.

E'ly, a village of the province of Quebec, co. of Shefford, about 10 m. S. S. E. of Melbourne.

Elydoffe, a. [Fr. lludorique, from Gr. claion, olive-oil, oil, and ydor, water.] Applied to a mode of painting with a vehicle composed of oil and water.

E'ly Liek, in Missouri, a village of Ralls co., abt. 78 m. N.N.E. of Jefferson City.

Elymans, (alemats,) a Jewish sorcerer of Paphos, in Cyprus. He was struck with instant blindness by St. Paul, for opposing the religious inquiries of the proconoul Sergius Paulus, who was embracing the gospel, (Acts xill. 6-12.)

E'lymans, n. [Gr. clyo, to fold up; the spike being enveloped in the sheaths in some species.] (Bot.) A genus of planta, ord. Graminacez, distinguished by having, spikelets 2 or more at each joint of the rachis, 2-offowered; glumes 2, collateral, subequal, subulate; paless lanceolate, lowerone entire, mucronate or awned; scales ciliate. The principal American species are E. Virginicus, The Lime Grass; E. villosus, The Rye Grass; and E. Hystriz, The Hedgehog Grass.

2-ö-flowered: glumes 2, collateral, subequal, subulate; palese lanceolate, lower one entire, mucronate or awned; scales ciliate. The principal American species are E. Virginicus. The Lime Grass; E. villosus. The Rye Grass; and E. Hystriz. The Hedgehog Grass.

Elyr'ia, in Ohio, a post-village and township, cap. of lorain co., on the Black river, about 7 m. from Lake Erie and 25 W S. W. of Cleveland. Pop. (187) about 7,000 Elysburg, in Pennsylvania, a post-village of North-umberland co., abt. 70 m. N. of Harrisburg.

Elysburg, in Pennsylvania, a post-village of North-umberland co., abt. 70 m. N. of Harrisburg.

Elysburg, in Pennsylvania, a post-village of North-umberland co., abt. 70 m. N. of Harrisburg.

Elysburg; in Pennsylvania, a post-village of North-umberland co., abt. 70 m. N. of Harrisburg.

Elysburg (elictously soothing; exceedingly delightful. Elysium Fields, in New York. See Honourn.

Elysium, Elrysium Elreids, in New York. See Honourn.

Elysium, Elrysium Elreids, in New York. See Honourn.

Elysium, Elrysium Campri, Elrysium Fields.] (Myth.) The paradise in which the souls of the virtuous after death were rewarded by the enjoyment of perfect bliss. Their notions with respect to the life passed in these happy realms differed at different periods, as did their suppositions regarding the locality in which Elysium was situated. Homer places it in the west, near the ocean, distinct from Hades and Tartarus, or the realms of the

dead, and describes it as blest with another sun and dead, and describes it as blest with abother sun and stars, enjoying an everlasting summer, refreshed by gentle zephyrs, — exhibiting in fact, but in the utmost perfection, all that is most lovely in earthly scenery, and where translated heroes passed their time in following the pursuits most congenial to their nature. Homer ing the pursuits most congenial to their nature. Homer represented the ghost of Achilles as waging war with wild beasts, while other chiefs are recreating themselves by managing horses, or with admiring and handling arms and armor. Hesiod and Pindar place Elysium in the "isles of the blest," on the extreme western verge of Ocean; while Plato, in his "Timeus," relates e legend said to have been narrated to Solon by the Egyptian priests, from which arose the fabulous story of the island of Atlantis, celebrated by poets as the paradise of the souls of the heroic and the just, and which is conjectured to have originated in the glowing accounts dise of the souls of the heroic and the just, and which is conjectured to have originated in the glowing accounts given by the first discoverers—most probably the Phoeniciaus—of either the Azores or of the Canary Isles. Lucian places the Elysian Fields near the moon. Plutarch assigns them to the centre of the earth. Virgil describes them as a separate part of the lower world, or domain of Pluto; and according to others they are situated near the ancient Memphis, in Egypt.

Elysium, of chicky, yum, in Illinois, a village of McHenry co., abt. 50 m. N.W. of Chicago.

Elysium, or Elysian, in Minnesota, a post-village and township of Le Sueur co., about 16 miles E.N.E. of Mankato.

kato.

Elyton, in Alabama, a post-viliage of Jefferson co., about 100 m. N. N. W. of Montgomery.

Elytra, pl. of Elytron, q. v.

Elytriform, a. [Gr. elytron, sheath, and Lat. forma.]

(Zoil.) Formed like the elytron.

Elytrime, n. (Chem.) A substance in the horny covering of insects.

Elytroeele, n. [Gr. elytron, sheath, and cele, tumor.]

(Med.) A hernia in the vagina.

Elytroeld, a. [Gr. elytron, and eidos, form.] Formed like a sheath.

like a sheath.

Elytron, Elytrum, n.; pl. Elytra. (Zoil.) The wing-sheaths, or upper crustaceous membranes, which form the superior or top wings of the coleopterous and orthopterous insects, or those of the different tribes or genera that have sheaths and over-lapping wings. The elytra cover the body of the insect, and protect the true

elytra cover the body of the insect, and protect the true membranous wings.

21'sewis, a distinguished name in the history of literature, borne by a family of printers, remarkable for the choice and beautiful execution of their works.—Louis, the first of the family known to biographers, was a bookselier at Leyden, at the close of the 16th cent.—MATHEW, his son, B. 1865, was a bookselier at Leyden, 1618.—ISAAC, eldest son of Matthew, and first printer of the family, Leyden, 1617-1628.—Bonaventure and Abraham, brothers of the preceding, and the meet famous of the family. Leyden, 1617-1628.— BONAVENTURE and ABRAHAM, brothers of the preceding, and the most famous of the family, partners at Leyden, 1626-1652. — JOHN, son of Abraham, a 1622, in partnership with his cousin Daniel, 1662-1654, D. 1661. — DANIEL, the last printer of the family, son of Bonaventure, s. 1617; after the death of John associated with his cousin Louis, who had long flourished at Amsterdam, D. 1680. — The Elzevir edition of the classics, and other works, are still held in high esteem for their correctness and beauty.

Em., a prefix. See En. (Typog.) The standard letter (M) by the size of which compositor measures and calculates the amount of

a compositor measures and calculates the amount of his composition. It is assumed to be square. Emma'clate, (i-main'c-di, v. n. [L. Lat. emacio, emacriatus—e, ex, and macio, to make lean, from macer, lean, meagre.] To waste away; to become lean; to lose flesh gradually; to decay in flesh.

—v. a. To cause to waste away or lose flesh gradually; to waste the flesh of and reduce to leanness.

Emma'clate, Emma'clated, a. Reduced to leanness by a gradual loss of flesh; thin; lean.

Emmelia'tiom, n. Act of emaciating, or of making lean or thin in flesh, or a becoming lean by a gradual waste of flesh; state of being reduced to leanness; leanness. (Med.) E. or wasting of the body, is a symptom of many chronic and acute diseases, and when rupid and excessive, shows the gravity of the disease. E or wasting of the muscles, is always characterized by an unhealthy pellor of the skin, accompanied by great relaxa-

ing of the muscles, is always characterized by an unhealthy pallor of the skin, accompanied by great relaxation of that membrane; the cuticle often hanging in folds.

Em'anant, a. (Lat. emanan:) Resulting of something else; as, "the emanant act of creation." — Hale.

Em'anate, v. n. (Lat. emano, emanatus—e, ex, and mano, to flow; probably, by transposition of letters, from Gr. nama, anything flowing, from nad, to flow.]

To flow out; to issue from a source; to flow from; to proceed from a source or fountain; to flow; to arise; to proceed to issue; to spring.

proceed from a source or fountain; to flow; to arise; to proceed; to issue; to spring.

—a. Issuing out; emanant.

Emama'tion, n. [Fr. Emanation, from L. Lat. emanatio.] Act of flowing or proceeding from a fountain-head or origin; that which issues, flows, or proceeds from any source, substance, or body; efflux; effluxium.

(Phil.) The doctrine, in the ancient systems of philosophy, which regarded all things as emanating or flowing from the Supreme Being. According to it there was no spontaneous creation, but all things issued necessarily out of the divine fullness without any free action on the part of God. This E. from original perfection departs more and more from its source and gradually degenerates, which was thought to account for the origin of evil. This system came from the East, and exerted a powerful influence on the systems of ancient Greece, a powerful influence on the systems of ancient Gree a powerful intender of the system of ancent creece, particularly the Pythagorean. Traces of it are to be found in the Hindoo mythology at the present day. It has been employed in theology to explain the relationship among the persons of the Trinity, the Son and Spirit being regarded as effluxes or emanations from the Father

theing regarded as emuxes or emanations from the Father.

Emi'snative, a. Issuing from another.

Emi'snatory, a. That emanates; emanation.

Eman'cipate, v. a. [Lat. emancipo—e, ex, and mancipium, a legal formal purchase among the Romans, by taking a thing in the hand and weighing out the money; a slave, from manus, the hand, and capio, to take.] To declare free and independent; to set free from servinde; to liberate; to restore from bondage to freedom; to free from bondage or restraint of any kind.

-a. Set at liberty; free.

Emancipatio, from mancipatio, a. [Fr. émancipation, from L. emancipatio, from mancipatio, roum mancipatio, roum mancipatio, roum mancipatio, roum mancipatio, roum mancipation, servitude, subjection, or dependence; deliverance from bondage, slavery, or from civit, or any other restraint; liberation; freedom; release; enfranchisement.

(Law.) By the ancient Roman law, the son stood in

enfranchisement.

(Law.) By the ancient Roman law, the son stood in the relation of a slave to the father. By a fiction of that law, the son might be freed from this relation by being three times sold (mancipatus) by the father. Hence the enfranchisement of the son derived from this ceremony the name of emancipation. In course of time, various modes of emancipation, both tacit and express, became recognized by the Roman jurisprudence. The word, in modes of emancipation, both tacit and express, became recognized by the Roman jurisprudence. The word, in countries following that law, signifies the exemption of the son from the power of the father, either by express act, or by implication of law. By the present civil law of France, majority (and with it emancipation) is attained at twenty-one years of age; and the marriage of a minor emancipates him. (Code Civil, lib. 1, c. iii.)

(Hist.) See SLAVERY.

Emancipa'tionist, n. An advocate for the emanci pation of slaves.

Emancipa 'tionist, n. An advocate for the emancipation of slaves.

Emancipa ator, n. [L. Lat.] One who emancipates or liberates from bondage or restraint.

Eman'cipator, n. A convict who has been pardoned or emancipated; — used in Australia.

Eman'cipist, n. A convict who has been pardoned or emancipated; — used in Australia.

Emanuel, (-mdn'u-cl.) The Great, king of Portugal, succeeded John II. in 1495. He was the son of Duke Ferdinand of Viseu, grandson of king Edward of Portugal, nephew of king Alfonso V., and cousin of John II. His father, accused of conspiracy against John II., was slain by the latter with his own hand. E restored the nobility to their privileges, and encouraged maritime adventures, by which means a new passage to India was discovered by Gama, and, in 1511, to Brazil by Cabral. Emanuel also sent an "xpedition to Africa, and established a commercial intercourse with the kingdom of Congo. Soon after his accession he published an edict for the expulsion of the Jews from his kingdom. In the last year of his reign, grieved by the agitation caused in Germany by the preaching of Luther, Emanuel wrote to the elector of Saxony, Frederick the Wise, exhorting him to get rid of that great heresiarch. Emanuel married in succession three wives: the first, Isabella, daughter of Ferdinand and isabella; the second, Mary, her sister; and the third, Eleanor of Austria, sister of Charles V., who survived him and married Francis I. of France. D. 1521.

Eman'cuel, in Grogica. a S.S.E. co.: area, abt. 1,003 sq. m. River Oxeches River, and Pendleton's. Ohoapee, and Cannouches creeks. Surfuce, level; soil, sandy and generally sterile. Cup. Swainsborough.

Eman'cuel, in Grogica. a S.S.E. co.: area, abt. 1,003 sq. m. River Oxeches River, and Pendleton's. Ohoapee, and Cannouches creeks. Surfuce, level; soil, sandy and generally sterile. Cup. Swainsborough.

Eman'cuel, in Grogica of the primitive form truncated, each by one face.

(Zotl.) Having all the edges of the primitive form truncated, each by one face.

(Mn.) Having all the edges of the primitive form truncated, each by one face.

(Zotl.) Having the margin broken by an obtuse notch on the segment of a circle.

Emarginative, ade. In the form of notches.

Emargination, n. The act of taking away the

margin.
Emas'culate, v. a. [L. Lat. emasculo — e, ex, and mas culus, dimin. of mas, a mule. See Misculus.] To unman; to castrate; to geld; to deprive of virility. — To deprive of masculine strength or vigor; to weaken; to render

or macculine strength or vigor; to weaken; to render effeminate; to vittated by unmanly softness.

—a. Unmanned; vittated.

Emasculation, n. [Fr. imasculation.] Act of emasculating or depriving of virility; castration. — Act of depriving of vigor or strength. — Unmanly weakness.

Emasculator, n. One who, or that which, emasculates.

Emas'culator, n. One who, or that which, emasculates.
Emas'culatory, a. Tending to emasculate.
Em'aus, in Panayibania, a post village of Lehigh co.,
5 m. 8.W. of Allentown.
Em'aus, in Virginia, a post-office of Bedford co.
Embale', v. a. [Fr. embaler — em, for en, and balle,
q. v.] To make up into a bundle, bale, or package; to pack.
Embalum', v. a. [Fr. embalumer — em, and balme, balm,
for balsam. See Balm.] To anoint or preserve with
balm; to open a dead body, take out the intestines, and
fill their place with odoriferous and desiccated spices
and drugs, to prevent its putrefaction; to fill with sweet
scent, as the air; to preserve, with care and affection,
from loss or decay. from loss or decay.

from loss of decay.

Imm ball med', p.a. Filled with aromatic spices or plants for preservation; filled with sweet scent; preserved from loss or destruction.

Embalm'er, n. One who embalms bodies for prese

escape.

Embalming, (em-bäm'ing,) n. [Fr. embaumer; Lat. balsamum, balm.] The art, invented by the Egyptians, of preserving dead bodies from decay by means of aromatics, antiseptics, or dericcation. E was practised by the ancient Egyptians frue the earliest times. It was

associated with their religious belief, for they held that the soul, after completing its cycle of separate existences of several thousand years, again returned to the body, and if that were found decayed or wasted, it transmigrated. The invention of the art was ascribed to Anubis, the son of Osiris, who first performed this office to his father: hence, all deceased persons were supposed to be embalmed after the model of Osiris. The process of E is described by Herodotus and Diodorus. The corpses of a male

**EMBA** 

Diodorus. The corpse of a male was at once delivered to the embalmers; if a female, it was retained at home until decomposition had begun. A scribe first marked with a reed pen a line on the left side below the ribe; along this line the para-schizzes or flank-incisor made a deep incision with a rude knife of stone or flint, on which he was pursued with curses and pelted with stones as if he had committed some helnous offence. The tarichetes, or preparer, then proceeded to remove the entrails and lungs, leaving the heart and kidney. leaving the heart and kidneys. The brains were drawn through The brains were drawn through the nostrils by a crooked iron instrument. The entrails were washed with palm-wine and perfumed, and the cavities were then filled up with myrrh, cassia, and other aromatic drugs. The flank incision was then sewed up, and the body steeped in natron for seventy days, after which it was wrapped in linen bandages anointed with gums. The body thus prepared was put in a wooden coffin, and placed in an upright position either in a sepulchre or in one of their own spartments; for many of them kept their dead at home, and sometimes produced them at festive entertainments. Mod-



and sometimes produced them at festive entertainments. Modern discoveries in the tombs leave no doubt that the intestines were separately embalmed and deposited in four vases in the coffin. This method of E. was the most expensive, and adopted only by the wealthy classes. The cost was a talent of silver, or about \$1,220. Another and cheaper mode, costing only 20 mine, about \$210, was effected without any incision, by injecting the viscera with oil of cedar, and then steeping the body in matron for 70 days; after which the viscera came away, and nothing remained but skin and bones. The 3d method, used only for the lower classes, was performed by washing the body in myrrh and laying it in salf for 70 days. The success of the art as practised by the ancient Egyptians, is attested by the numerous mummies that are to be seen in all the great museums of Europe and America. All classes among them were embalmed, also the animals which their religion held sacred. Of these upward of 50 species have been found embalmed, among them the ibis, crocodile, cat. &c. The art was practised also by the ancient Jewa, Greeka, and Romans, though it never attained such perfection among them as among the people from whom it was borrowed. The Persians employed wax, the Assyrians honey: the Jews embalmed some of their kings with spices, with which also the body of our Lord was anointed; and Alexander the Great was embalmed with wax and honey. It appears that the early Christians embalmed their dead, and, according to St. Augustine, mummies were made in his time, at the end of the 5th century. An elaborate process of emearly Unristians embalmed their dead, and, according to St. Augustine, mummies were made in his time, at the end of the 5th century. An elaborate process of em-balming was also adopted by the Guauches or ancient inhabitants of the Canary Isles. (See Mumm.) The art of E. was probably never lost in Europe, but the mode of E. by injecting into the veins of the body a concenof E. by injecting into the veins of the body a concentrated solution of sulphate of alumina, discovered by Gaunal in 1834, has considerably diminished the cost of E. From that time many substances have been experimented on and employed as substitutes for sulphate of alumina for the preservation of dead bodies, one of the most successful being, we believe, sulphate of zinc at different degrees of strength. We know reputed embalmers who make a mystery of their process, and do not use other substances.

Embalm'ing, n. Act or art of filling a dead body with spices for preservation.

Embalm'ment, n. [Fr. embaumement.] The act of

Embaim ment, n. [Fr. embaumement.] The act of embaiming.

Embank, v. a. [En or in, and bank.] To inclose with a bank; to defend with a bank mound, or dikes.

Embank ment, n. Act of surrounding or defending with a bank; a mound or bank raised for various purposes, as for protecting against inundation, or for the passage of a railway.

Embar', v. a. [En and bar.] To shut, close, or fasten with a bur; to make fast; to inclose so as to hinder egress or escape.

authorities of a country to prevent vessels leaving or entering its ports. Embargoes are usually imposed only in time of war, or in apprehension of an invasion; in which cases the government employs the ships under E. in armaments, expeditions, transportation of troops, &c. Formerly, when it was necessary to conceal important movements from the enemy, an E. was laid upon all vessels that might be the means of conveying information. E. may also be laid by government upon the ships of its subjects, in order to employ them in its service.

ships of its surjects, in the service.

—v. a. To hinder or prevent, as ships from sailing for a limited time; to stop. —To hinder from being prosecuted by the departure or entrance of ships.

Embark', v. a. [Fr. embarquer, from bark; It. imbarcare; Sp. embarcar.] To put or cause to enter on locard a ship or other vessel, or boat.—To engage; to put to risk or venture; to engage, as a person in any affair. board a ship or other vessel, or boat.—To engage; to put to risk or venture; to engage, as a person in any affair.

—e. n. To go on board of a ship, boat, or vessel.—To engage in any business, or to undertake it; to take a share.

Embarkation, n. [Fr.] Act of embarking, or of putting or going on board of a ship or other vessel; that which is embarked.

Embar rass, in Illinois, a township of Edgar co. Pop. (1897) att. 1,800.

Embar rass, in Missesota, a post-office of St. Louis co. Pop. att. 440.

—A pest-office of Waupaca co.

—A post-office of Waupaca co. Embarras Point in "

—A per-office of Waupaca co.

Embar'ras Point, in Illinois, a village of Edgar co, abt. 100 m. E. of Springfield.

Embar'ras River, in Illinois, rises in Champaign co, and flowing generally 8. through Douglas, Coles, and Cumberland cos. to Newton and Jasper cos., turns to the S.E., traverses a part of Crawford co., and enters the Wabash River from Lawrence co.

Embar'ras River, in Wisconsin, enters Wolf River from Lawrence co.

from Waupaca co.

Embar'rass, v. a. [Fr. embarrasser—em, and barre, a bar.] To put a bar or difficulty in the way of; to involve in difficulties; to hinder; to perplex; to entaugle.—To confuse; to confound; to disconcert; to abanh; to distress; to embroil.—To render intricate, perplexed, or

entangled.

Embar'rassed, p. a. Perplexed; rendered intricate.

Confused; confounded.

Embar'rassed, p. a. Perplexed; rendered intricate.—Confused; confounded.

Embar'rassing, p. a. Perplexing; entangling; confusing; confounding; absahing.

Embar'rassingly, ddr. In an embarrassing manner.

Embar'rassingly, ddr. In an embarrassing manner.

Embar'rassingly, ddr. In an embarrassing manner.

Embar'rassingly, ddr. In an embarrassing; perplexity; intricacy; entanglement; trouble; distress; anxiety.—Confusion of mind; absahment.

Embase'ment, n. Deterioration; debasement. (a.)

(M.d.) Same as embasis.

Em'basis, n. [Gr.] (Med.) A bathing-tub or vessel filled with warm water.

Embas'sador, n. An Ambassador, q. v.

Em'bassy, n. [Fr. ambassade; Sp. embaxada; It. ambassador.] The charge, employment, or comnission of a public minister, whether ambassador or envoy; the person or persons intrusted with spublic or solemn message; any solenn message.

Embat'tle, v. a. [En and bathe.] To bathe.

Embat'tle, v. a. [En and bathe.] To arrange in order of battle; to arranged in order of battle.—n. n. To be arranged in order of battle.

battlements.

 -v. n. To be arranged in order of battle.
 Embat'tled, p. a. Arrayed in order of battle. — Furnished with battlements. — Having been the place of battle.

the title. (Her.) One of the eight crooked or curved lines used in addition to the straight line, in dividing one part of the field from another, or for the outline of any principal ordinary. When this outline, or line of nary. When this outline, or line of division, is in the form of the bat-tlements of a tower, it is said to be embattled. French heralds use the melle. term *crenelle.* Embat'tlement, n. Same as



Fig. 936.

BATTLEMENT, q. v.

Embay', v. a. [En and bay.] To inclose in a bay or inlet; to landlock; to inclose between capes or promon-

tories.

Embden, or Emden. (em'den.) a seaport-town of Hanover, being the second in that former kingdom in respect of size and importance, prov. Aurich, on the N. bank of the sestuary of the Ems. or rather of the bay called Dollart, 15 m. 8.W. of Aurich. There are ship-building docks. Pop. 15,827.

Emb'den, in Maine, a post-township of Somerset co., on the Kennebec River, abt. 40 m. N. by W. of Augusta;

pop. abt. 1,100.

Emb'den Centre, in Maine, a post-village of Somer-set co., on the Kennebec River, abt. 40 m. N. by W. of

Augusta.

Embeam', v. a. To clothe or cover with beams of

light

light.

Embed', or Insep, v. a. [En and bed.] To lay, as in a bed; to lay in surrounding matter.

Embed'ment, n. Act of embedding.

Embel'lish, v. a. [Fr. embellir—en, and belle; Lat. bellus, pretty, handsome, fine, neat, contracted from benulus, from benus = bonus, good ] To make beautiful or electral. benulus, from benus = bonus, good | To make beautiful or elegant by ornaments; to make graceful or elegant, as manners; to adorn: to deck; to decorate; to ornament; to beautify; to illustrate.

Embel lished, p. a. Adorned; decorated; beautiful, Embel lished, p. a. Adorned; decorated; beautiful, Embel lished; p. a. Doe who embellishes; one whe graces with ornaments.

Embel lishingly, adv. In such a manner as to em- | Embod'ier, n. He that embodies.

seegance. See days, n. pl. [Sax. yml-rrn, or ymb-ryne — ymb, about, around, and ryme, Goth. runs, a course, anniversary.] (Eccl.) In the Roman Catholic Church, certain days, first appointed by Pope Calixtus a. D. 220, to be set apart for fasting and prayer, and for imploring the blessing of God on the fruits of the earth, and on the ministers ordained at these times. The E.D. occur four times in the verse being the Wednardus Friday and blessing of God on the fruits of the earth, and on the ministers ordained at these times. The E.D. occur four times in the year, being the Wednerday, Friday, and Saturday after the first Sunday in Lent; after the Feasial of Pentecost or Whitsunday; after the Featival of the Holy Cross, on the 14th of September; and after the Festival of St. Lucia, on the 13th of December. The weeks in which E.D. fall are called ember-weeks. The Sundays immediately following these seasons are still appointed by the canons of the Church of England for the ordination of priests and deacons. Derivation of the term is doubtful. By some it is derived from the Greek Ameria, days; by others from the Saxon ymbrea, a circle or revolution. Others still, connect the term with the A. Sax. amyrians, (Dan. emmer.) in the sense of ashes, which the primitive Christians strewed on their heads at these solemu festivals.

Embergeose, n. [Ger. imber.] (Zool.) The great northern diver, a species of Chlymbus. See Colymnids. Emberdian, n. A. genus of birds in the classification of Gray, corresponding to the genus Plectrophanes, q.v.

Emberg. n. pl. [A. S. amyrian; Dan. emmer; Icel. cymyria, hot ashes.] Hot sahes or cinders; small coals of fire with ashes; the residuum of wood, coal, or other combustibles not extinguished.

Ember-weeks, n. pl. The weeks on which the emberdays fall.

Embersite, v. a. [Nor. embeasiler, to filch; O. Fr.

days tail.

mmbes'sle, v. a. [Nor. embeasiler, to filch; O. Fr.
besler, or besler, to deceive, to gull; Sp. embauco, to impose upon, to cheat. Etymol. unknown.] To purloin;
to appropriate fraudulently to one's own use what is ined to one's care and management; to waste; to dissipate in extravagance.

mbez'slement, n. (Law.) Act of embezzling, or

Combes Element, R. (Law.) one or emperating, or fraudulently appropriating to one's own use the money or goods intrusted to one's care and management; the thing appropriated; larceny by clerks, servants, or agents. An E. is in substance, and essentially, a laragents. An E is in substance, and essentially, a lar-ceny, aggravated rather than pulliated by the violation of a trust or contract, instead of being, like larceny, a

Ember'sler, s. One who embezzles.
Embil'low, v. c. To heave as the waves of the sea; to

**abit'ter,** v. a. To imbitter.

Embliftermment, n. The act of imbittering. (2.)
Embliftermment, n. The act of imbittering. (2.)
Embline, v. a. [En and blaze.] To set in a blaze; to
kindle; to adorn with glittering embellishments.
(Her.) To point or adoru with figures armorial; to

basion.

imbla'som, v. a. [Fr. blasoner. See Blason.] To display pompously; to adorn with figures of heraldry or ensigns armorial.

imbla somer, n. A blazoner; one who emblasons; a herald; one who publishes and displays with pomp.

nersia; one who punishes and displays with pomp.

Embla'sonment, n. An emblazoning.

Embla'sonment, n. Pictures on shields; display of figure; heraldic ornaments.

Em'blesm. n. [Fr. emblime; Gr. emblema, from emballo—ca, and ballo, to throw or cast.] In the primary sense of the word, a piece of messic, or any work in which bits of one kind of material are inserted or set into anbits of one kind of material are inserted or set into another.—In the general acceptation of the term, anything which, by association of ideas, appears to be a visible and suitable representation of some abstract quality, or it has a similar meaning to that of the word device, q. v. Thus the lamb is the emblem of meekness, ity, or it has a similar meaning to that of the word device, q. v. Thus the lamb is the emblem of meekness, humility, and docility; the lion, of courage and magnanimity; the dog, of fidelity; and the fox, of craft and cunning. The engle is the emblem of imperial power, as it is reputed to be the king of birds, and often styled the royal bird. Other things have been taken as emblems of persons, as they are associated with them by historical recollections: thus the gridiron is the emblem of St. Lawrence, as the instrument of his martydom: the wheel, that of St. Catharine, for a similar reason. An angel bearing a pen is the emblem of St. Markew; a lion, that of St. Mark; a bull, of St. Luke; and an engle, of St. John. Flowers are supposed to be emblematic of various qualities, and are, in consequence, sometimes used in the East as a means of communication.

Emblemma\*(2, or Emminional, a. Pertaining to, or comprising, an emblem; representing by some allusion or customary connection, or by similar qualities; using sublems.

Emblematically, adv. By means of emblems; in

Emblematically, adv. By means of emblems; in the manner of emblems.

Emblematicise, v. a. To emblematize. (a.)

Emblematist, n. A writer or inventor of emblems.

Emblematist, n. A writer or inventor of emblems.

Emblements, n. pl. [O. Fr. embler, to sow with corn, from bld, corn.] (Law.) The right of a tenant to take and carry away, after his tenancy has embed, such annual products of the land as have resulted from his own and labor.

tan bloomise, v. a. To emblematise. (a.)
tan blooms', v. a. [En, and bloom, q. v.] To cover or
enrich with bloom.

Embles'sem, v. a. To cover with bloom or blossos Embles'sed, p. a. Collected or formed into a body.

Embod'iment, n. Act of embodying; the state of

Embod'iment, n. Act of embodying: the state of being embodied.

Embod'y, v. a. [Em and body.] To form into a body; to invest with matter; to make corporeal.—To form into a collection or system.—To bring into a band, company, regiment, brigade, army, or other regular assemblage.—To collect.

—v. n. To unite in a body, mass, or collection; to coalesce.

Embogue', v. i. To discharge, as a river, its waters into the sea or another river.

Embogu'ing, n. [Fr. embouchure, from bouche, Lat. bucca, mouth.] The mouth of a river. (a.)

Embodi'em, v. a. [Em, and bold.] To give boldness or

bucca, mouth.] The mouth of a river. (k.)

Embold'em, v. a. [En, and bold.] To give boldness or courage to; to encourage.

Emboldsma, n. [Fr. embolisme; Gr. embolisma, from embollo—en, and ballo, to throw or cast.] That which is thrown in, or inserted; intercalation; the insertion of days, months, or years in an account of time, to produce regularity; intercalated time.

Embolismal, a. Pertaining to an embolism or intercalation; intercalated; inserted.

Embolismat'ie, or Embolismat'ical, a. Embolismic.

Embolismat'e, or Embolismat', a. Intercalated; inserted.

Em'bolite, n. (Min.) A chlorobromide of silver, color asparagus to olive-green, resembling horn-silver. I constitutes the principal silver ore of the mines of Chaffarsillo, Chili.

to put in.] Anything inserted and acting in another, as a wedge, or the piston of a pump, or of a steam-engine.

Embonpoint, (ang'bong-puolag.) n. [Fr.] Plumpness. Emborder, v. a. [O. Fr. emborder—en, and border.] To adorn with a border.
Embosa, v. a. [En, and boss.] To raise or form bosses or protuberances; to fashion in relievo or raised work;

to cut or form with prominent figures; to cover, as with

bosses or protuberances.

Embossed', p.a. Formed or covered with bosses

raised figures.
(Bot.) Projected in the centre like the boss of a shield

Emboss'ing., n. [Fr. embosser, from bosse, a stud.] (Arts.)
The art of obtaining patterns of any kind, or inscriptions, in relief, on cloth, leather, felt, metal, pasteboard, tions, in relief, on cloth, leather, felt, metal, pastetoard, or paper. It is effected by subjecting the material on which it is desired to raise any pattern to very great pressure, which may be applied vertically by the sharp blow of a die, or by a cylinder. For embossing crests, or names, on paper and envelopes, a small stamping-machine is used, and the device desired is cut in inmachine is used, and the device desired is out in taglic on the die. The paper is placed on a piece of soft metal stamped by the die, and therefore having the device in relief, and the impression is obtained by pressional to the device in relief, and the impression is obtained by pressional to the device in relief. For eming the die forcibly on it by means of a lever. For embossing woollen goods, the cylinders which are used must have the pattern cut on them in intaglio; but for must have the pattern cut on them in intagilo; but for velvets, and embossing paper of any size, the patterns must be in relief. The following is the process adopted when cylinders are used. The engraved cylinder, or embossing-roller, and another of the same diameter, called the bed-roller, are set closely together, and the material is passed between them. The bed-roller is material is passed between them. The bed-roller is made of paper (see CALENDERINO), and covered with felt, to prevent it from receiving and retaining any impression from the embossing-roller. The cylinder on which the pattern is cut is made hollow, to receive heated irons, or to be heated by steam. Leather may be embossed by pressure, or by rendering it supple by moisture, and then fashioning it into the desired shape on a mould cut for the purpose. Ornaments for picture-frames and the interior decoration of apartments, which closely resemble carval oek may be made in this menframes and the interior decoration of apartments, which closely resemble carved oak, may be made in this maner. The cloth which is used for binding books is embossed by passing the material between two steel rollers engraved with the required pattern, which are heated by gus jets from pipes passing through the centre of the rollers, which are hollow. When there is any peculiar device on the cover of a book bound in cloth, and there is much gliding about it, the cloth is first glued to the millboard covers, and subjected to great pressure from the die engraved for the purpose, after it has been laid on an iron plate, which is heated from beneath by gas.

Emboss'ment, n. A prominence like a boss: a jut:

Emboss'ment, n. A prominence like a boss; a jut; relief; a figure in reliero; raled work.

Embot'elle, v. a. [En, and bottle.] To put in a bottle; to bottle; to include or confine in a bottle.

Embouehure,' n. [Fr., from en, and bouche, mouth.] A mouth or aperture, as of a river, cannon, &c.

(Mus.) The mouth-piece of a wind-instrument.

Embow', v. a. [En, and bow.] To form like a bow; to arch; to vault.

Embowed', a. (Her.) Applied to anything which is bent like a bow. Embow'el. v. a.

imbow'el, v. a. [En, and bowel.] To take out the bowels or entrails of an animal body; to eviscerate; to take out the internal parts of; to sink or inclose in another substance

Embow'eler, Embow'eller, n. One who takes out the bowels.

Embow'elment, n. Act of taking out the bowels.

evisceration. Embow'er, v. n. [En, and bower.] To lodge or rest in a bower

To inclose in or cover with a bower; to shelter

Embox', v.a. [En, and box, q. v.] See Emboss.

Embrace', v.a. [Fr. embrasser — en, and bras, the arm; Lat. brachium.] To take or hold within the arms; to press to the bosom in token of affection; to hug; to clasp; to inclose; to seize eagerly or ardently; to lay hold on; to comprehend; to comprise: to encompass; to encircle; to include; to contain; to receive; to admit; to accept.

(Law.) To attempt to corrupt a jury.
v.n. To join in an embrace.

—v. n. To join in an embrace.

—n. Inclosure or clasp with arms; pressure to the bosom with the arms; a hug; a clasp; a grapple; reception of one thing into another; conjugal endearment.

Embraceer, n. (Law.) One who practices embracery.

Embraceery, n. (Law.) An attempt to corrupt a jury in favor of one party in a trial, by promises, persuasion, entreaties, money, entertainment, and the like. The punishment for this misdemeanor, of the person embracing and the inverse embraced is to the person embracing and the jurors embraced, is by fine and imprisonment.

Embranch'ment, n. The act or the process of form-

Embranch'ment, n. The act or the process of forming a branch.

Embra'sure, n. [Fr., from embraser, to fire, to set on fire—en, and braise, burning charcoal; root Teut. bras, or brass, a bright fire; [Fbrt.] An opening in a wall or parapet to hold a bright fire; the indent of a battlement through which cannon are pointed and discharged. (Arch.) The enlargement of the aperture of a door or window on the inside of the wall, for giving greater play for the opening of the door or casement, or for admitting more light.

(Gun.) A piece of iron which grants the trunnions of

ting more light.

(Gun.) A piece of iron which grasps the trunnions of a piece of ordnance, when raised to the boring-machine. Embreeville, in Pennsylvania, a P. O. of Chester co. Embright', v. a. To make bright; to brighten. Embroe. a village of prov. of Ontario, co. of Oxford, abt. 100 m. 8.W. of Toronto; pop. abt. 500.

Embroes'do, n. A pass in fencing.

Embroes'do, to fomentation, from embrethô, to foment—en, and brechô, to wot on the surface, akin to Lat. repare; Ger. regen; Eng. rain.] (Med.) To foment or moisten and rub, as a diseased part of the body, with a liquid sulstance.

and rule, as discussed part of the body, with a liquid substance.

Embroca'tion, n. [Fr., from L. Lat. embrocatio.] (Med.) Act of moistening and rubbing a discussed part with a cloth or sponge dipped in some liquid substance. — The liquid with which an affected part is washed.

Embroglio, (em-brot'yo,) n. See Embroil, and Inspection

Embrogine, (em-troys), N. See Easteri, and In-Broollo.

Embroi'der, v. a. [Fr. broder, from border, to border, by transposition of letters. See Bonder.] To surround with a border or edge; to border with ornamental needle-work or figures; to adorn with raised figures of needle-

Embroi'dered, p. a. Adorned with figures of needle

work.

Embroi'derer, n. One who embroiders.

Embroidery, (embroiders.) n. [Fr. broderic.] The art of working ornamental figures with a needle and thread. The art of E is one of the oldest, and has alart of working ornamental ngures with a needle and thread. The art of E is one of the oldest, and has always been one of the most important, domestic occupations among Oriental nations. It was practised among the Hebrews in the time of Moses; and the women of Sidon were famous for their embroidery before the siege of Troy. In after years, the women of Greece were celebrated for their proficiency in the same art; and some of their productions are said to have equalled, if not surpassed, many of the finest paintings then existing. The inhabitants of Peru, when discovered by the Spaniards, had in their possession elaborate embroideries of gold and silver on feathers, which they manufactured with great skill. In the Middle Ages, ecclesiastical tapestry, curtains, pricets' vestments, &c., were all embroidered with the needle; and screens, corridorinings, &c., were the daily handlwork of some of the noblest ladies, assisted by their handmaidens. In the present day, all E. may be divided into two classes, —E. on stuffs, and on muslin. The first class includes all present day, all E. may be divided into two classes, — E. on stuffs, and on muslin. The first class includes all ornamental needle-work upon articles of furniture, standards, church vestments, &c.; the second is employed usually upon articles of female apparel, such as caps, collars, &c. Stuff E. is performed by means of a loom, and is executed with gold, silver, silk, cotton, and woollen threads. Muslin E. is generally accomplished by hand, the fabric being stretched upon a frame. This kind of work has been very fashlonable of late years; although at first looked upon only as an elegant accomplishment for ladies, it now forms an article of considerable traffic, and gives employment to a large number of persons. Berlin-wool-work is a sort of E. which has been in vogue for many years among ladies. The fabric worked upon is generally stretched upon a frame, and the design to be embroidered is drawn upon it; or worked upon is generally stretched upon a frame, and the design to be embroidered is drawn upon it; or oftener, an engraving, in which lines are drawn corresponding with the threads of the fabric, is used. The mane is derived from the fact that a print-seller named Wittich, in Berlin, up to 1810, sold the best patterns for this kind of work. Machine E. has given a great impetus to the art, and some years ago a machine was invented by which one person could guide 80 to 140 needles, all working at the same time. Several kinds of sewing-machines can be used for embroidering. Embroill, v. a. [Fr. embrosiller. -en, and broustler, to jumble, mix, or blend together. See Brott.] To confuse; to confound; to perplex; to mingle: to intermix in confusion; to involve in troubles or perplexities; to entangle; to encumber; to confound; to distract; to distract; to disorder; to trouble.

v. s. To be in commotion; to become disturbed.

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Embroil'ment, n. A state of contention, perplexity, or confusion; disturbance.

or confusion; disturbance.

Embronse', v. a. To cover with bronse.

Embroth'el, v. a. See IMBRUM.

Embrown', v. a. See IMBRUM.

Embrown, a town of France, dep. Hautes Alpes, on the Durance, 20 m. E. of Gap; p.p. 5,118.

Embrute', v. a. See IMBRUTE.

Embrute', v. a. See Institute.
Embryo, n. [Fr. embryon; Gr. embryon, from en, al
bryo, to be full of anything, to swell therewith.] An oryon, to be fun of anything, to swell therewill.) Au organized being in a rudimentary condition, or the rudiment from which, under favorable circumstances, an organized body is to be developed.— The beginning or the first state of anything in its first rudiments or un-

The rudiment of the future plant existing in the vegetable fætus. The true E. is the essen-(Bot.) The rudiment of the ruture plant existing in the seed; the vegetable fetus. The true E is the essen-tial characteristic of the seed of flowering plants; for a spore, as the reproductive part of a floweriess plant is called, has no true E, the rudimentary plant being only developed from it after its separation from the parent. The E is divided into three parts, corresponding to the The E is divided into three parts, corresponding to the root, stem, and leaves of the perfect plant, termed, respectively, the radicle, the plumule, and the cotyledons. These parts may be readily recognized in many seeds, especially when the process of germination is a little advanced. Plants which have seeds with 2 cotyledons are called dicotyledonous, and those having seeds commonly possessing but one cotyledon are said to be monocotyledonous. Flowerless plants are said to be monocotyledonous. Flowerless plants are said to be acotyledonous. When albumen is present in a seed, the size of the E is in inverse proportion to its quantity; thus in grasses there is a larger deposit of albumen, but a very small E; while in the nettle the E is large and the albumen small. When the E is external to the albumen and in contact with the Integuuents, as in grasses, it is and in contact with the integuments, as in grasses, it is said to be external; when it is surrounded by the albumen on all sides, except at its radicular extremity, as in the pansy, it is said to be internal. The E. is so tena-cious of life under favorable circumstances, that there are well attested instances of its having preserved its

are well attested instances of its having preserved its vitality much beyond 1,000 years.

(Physiol.) A term applied to the festus in silero, before the 5th month of pregnancy, from its growth resembling the budding of a plant.—See Ovus.

—a. Pertaining to, or noting, anything in its first rudiments or unfinished state.

Embryogenic, a. Pertaining to the development of an embryo.

of an embryo.

or an embryo.

Embryog'eny, n. [Gr. embryon, embryo, and gennau, to produce.] The science of the production and development of embryos.

Embryog'eny, n. [Gr. embryon, embryo; and genë, generation.] (Anat.) The formation of embryos.

Broussais.

Embryog raphy, n. [Gr. embryon, and graphé, description.]

Embryolog ical, a. Belonging, or relating, to embryolog.

bryology.

Embryol'ogist, n. One skilled in embryology.

Embryol'ogy, n. [Gr. embryon, and logos, discourse, logoin, to speak; Fr. embryologie.] The study of the mode of formation of the feetus.

Em'bryon, n. Same as Emero. (L.)

-a. Unfinished; embryonic.

Em'bryonal, a. That belongs to an embryo; embryonary

onary.

Em'bryonary, a. Relating or belonging to the development of an embryo.

Em'bryonate, Em'bryonated, a. Embryonal.

Embryon'ie, a. Pertaining to an embryo, or in the state of one.

Embryot'ie, a. Same as embryonic.

Embryot'e., a. Same as embryonic.
Embryot'omy, n. [Fr. embryotomia, from Gr. embryon, and temnein, to cut, tome, a cutting.] (Surg.) The operation of cutting the foctus out of the womb.
Embryous, a. Embryonic.
Embu'de, in New Mexic, a village near a pass of the same name, about 50 m. N. of Santa Fé.
Em'dem, in Hanover. See Ember.
Em'deline, in love, a village of Jackson co., about 27 m. S. by W. of Dubuque.
Emend', v. a. Same as AMEND. (a.)
Emend'able, a. Amendable. (a.)
Emenda tion, n. [Lat. emendatio, from emendo, emendone

Emend'able, a. Amendable. (a.)
Emenda'tion, n. [Lat. emendatio, from emendo, emendatur—e, and mendum, a fault, an error.] Act of correcting faults or errors; a correcting what is erroneous or faulty; an alteration for the better; correction; correction of an error or fault.

correction of an error or fault.

Em'endator, n. [Lat.] A corrector of errors or faults in writings; one who corrects or improves.

Emendatory, a. [L. Lat. emendatorius.] Contributing to emendation.

Em'erald, n. [Fr. émeraude.] (Min.) A variety of beryl q. v. It is a precious stone, of a bright rich deep-greet q. v. It is a precious stone, of a prigne from the color, occurring in hexagonal prisms, in granite, gneiss, and mica rocks. It is a little less hard than beryl. The rich color is due to oxide of chromium. The most than the color is due to oxide of chromium. The most than the color of the K is Muso, in New The rich color is due to extee of chromium. The most celebrated modern locality of the Æ is Muso, in New Granada, in a limestone containing cretaceous fossils. Fine specimens occur in Peru, and inferior ones in Bararia, India, and Mt. Zalora in Upper Egypt. It is said this latter locality was the only one known to the ancients.

(Printing.) A type, in size between Minion and Non-

pareil.

(Her.) The green tincture; vert.

Em'eraid, in Minnesota, a post-township of Farihault co., 5 m. E. of Blue Earth City. Pop. (1897) about 850.

Emeraid, in Ohio, a post-office of Adams co.

Emeraid, in Ohio, a post-office of Adams co.

—A village and township of Paulding 10., about 61 m. W.S.W. of Toledo.

W.S.W. of Toledo.

Emersald in Wisconsin, a township of St. Croix co., about 30 m. N.E. of Hudson.

Emersald Grove, in Wisconsin, a post-vill. of Rock co.

Emersald-grown, n. (Puint.) A light-grown pigment prepared from arseniate of copper; the Scheele's grown.

green.

Emerald-nickel, n. (Min.) Same as Zaratite, q. v.

Emerald-nickel, n. (Min.) Same as Zaratite, q. v.

Emerald-nickel, n. (Min.) Same as Zaratite, q. v.

Emerald-nickel, n. (Lat. emergo—e, ex, and mergo, to dip,
to dip in, to plunge into water, to sink. See Mingl.)

To come forth or up; to arise; to rise out of a fluid or
other covering or surrounding substance; to issue; to
proceed from; to respect after being eclipsed; to leave,
as the sphere of the obscuring object.—To rise out of
a state of depression or obscurity; to rise into view.

Emer'genee, or Emeralcute, n. [L. Lat. emergentia.]
Act of emerging or rising out of a fluid or other covering or surrounding matter: act of rising or starting into
view; act of issuing from, or quitting; a sudden occasion; an unexpected event; unforceseen casualty; pressing necessity: urgency: exigency.

ing necessity; urgency; exigency.

Emergent, a. [Fr., from Lat. emergens.] Rising ou of a fluid or anything that covers or surrounds; issuing or proceeding from; rising out of a depressed state, o from obscurity; coming suddenly; sudden; casual unexpected.

Emer'gently, adr. By emerging. Emer'gentness, n. State or quality of being emer

er'ited, a. [Fr. émérile; Lat. e serilus, from

Emerited, a. [Fr. émérile; Lat. e seriéus, from e, ex, and merco, or mercor, to deserve, to 1 erit.] Allowed to have done sufficient public service.

Emeritus, n.; pl. Emert. [Lat., one who has served out his time, from emercre, emercri, to obtain by service, to serve out one's term, from e, out, and mercre, mercri, to merit, earn, serve.] (Roman Antiq.) This name was given to soldiers who had fulfilled the legal term of military service.

Applied in colleges and universities to professors who, after meritorious services, are honorably discharged

who, after meritorious on account of age, &c. on account of age, &c.

Emm'erodis, or Emzends, n. [Corrupted from hemorrhids: Gr. haimorroids, usually plural haimorroids:

(phlebs, veins, being understood, veins liable to discharge blood—haima, blood, and rheö, to flow.] (Med.)

Livid, painful, and bleeding tubercles about the anus; hemorrhoids; Piles, q. v.

Emerwed!, a. (Bot.) Standing out of, or raised above water.

water. Emer'sion, n. water.

Emer's on, n. [Fr., from Lat. emergo, emersum. See
EMERGE.] Act of rising out of a fluid or other covering
or surrounding substance.

(Astron.) The reappearance of a heavenly body after

(Astron.) The reappearance of a heavenly body after an eclipse; the reappearance of a star which has been hid by the effuigence of the sun's light.

Emrerson, Ralff Waldo, a celebrated American poet and cessyist, was born in Boston, 1803, and graduated at Harvard College, 1821. Having turned his attention to theology, he was ordained minister of the Second Unitarian Church of Boston; but soon after formed peculiar views with regard to forms of worship, abandoned his profession, and, retiring to the quiet village of Concord, devoted himself to his favorite study—the nature of man, and his relation to the universal village of Concord, devoted himself to his favorite study—the nature of man, and his relation to the universe. In 1838, Mr. E published Literary Ethics, an Oration; and in 1839, Nature, an Essay. In 1841, he published the Method of Nature, Man the Reformer, several loctures, and the first series of his Essays, the second series of which appeared in 1844. In 1846, he published a volume of poems. In 1848, he travelled in England, where he delivered lectures on The Mind and Manners of the 18th Century, and in 1849 delivered the series entitled Representative Men. In 1852, in connection with Mr. W. H. Channing, he published the Memoir of Margaret Fuller, Marchiomess d'Ossoli. Mr. E., in 1856, published a work entitled English Traits, and in 1860, The Conduct of Life. He delivered, at Concord, an oration on the death of President Lincoln in 1865, and received the degree of L.L.D. from Harvard University sceived the degree of L.L.D. from Harvard University 1866. He has contributed largely to periodicals in 1886. He has contributed largely to periodicals. Some of his works have been translated into French, and have excited considerable admiration among the Parlaian Transcendentalists. He is unquestionably one of the most eminent modern philosophers of the Panthe sitie school, and one of the most remarkable person-ifications of American genius. D. April 27, 1882. Em'erson, in *Michigan*, a township of Gratio

Emi-ersons, in Assouri, a post-village of Marion co-abt. 25 m. N.W. of Hannibal.

Emi-ersons, in Nebroska, a post-village of Dixon co., abt 33 m. S. of Ponca.

33 m. S. of Ponca.

Em'ery, n. [From Cape Emeri, in the island of Naxos.]

(Min.) A variety of corundum, consisting mainly of alumina, combined with a small quantity of silica, peroxide of iron, and a little water. E. occurs in Spain, Asia Minor, in the Greek islands, and in the island whence it takes its name. Ground to powder of different degrees of fineness, it is much used in the arts as a polishing-powder. It is mostly employed attached to cloth or paper.

Em'ery, in Ohio, a post-office of Fulton co.

Em'erylite, n. (Min.) Same as Margarite, q. v.

Emery's River, in E. Tenesse, rises in Morgan co., and flows S. into Clinch River, in Roane co.

Em'esis, n. [Gr., from emed, to vomit.] (Med.) A vomiting.

fluence of some peculiar and specific action on the nerves of the stomach, and independent of smell, taste, or local irritation. There are few diseases to which man is subject, especially active diseases, in which emetics may not only be found useful, but often of the emetts may not only be sound usered, but often of tine most signal service, not only by removing expeditiously from the system some crude or offensive authernoc-doing hurt by its presence, but by the reactionary in-fluence they exercise as stimulants, and also by the after-effects on the bowels and skin. E also act power-fully as febrifuges in acute fevers and inflammations by the names and relaxation they cause when ju-diciously employed—in other words, by preventing them acting as emetics, and giving them in such doses as will produce all the names and sickness without the as will produce all the names and sickness without the consummation and vomiting. E. are either of the mineral or vegetable kingdom: belonging to the mineral are mercury, sulphate, antimony tartrate and sulphuret, copper sulphate, and sinc sulphate; and of the vegetable are included ipocacuanha, squills, mustard, camomile-tea, asarabacca, and tobacco. E should never be administered to a patient who is disposed to apoplexy, or to a tendency of blood to the head, or when the patient is liable to hemorrhage from any organ, or is subject to hernia. During pregnancy, also, E. must be avoided. met/ie, Emet/ical, a. Inducing to vomit; causing hernia, Durin Emet'ic, Em

**EMIG** 

womiting.

Eme'tically, adv. So as to provoke to vomit.

Eme'tically, adv. So as to provoke to vomit. intensely emetic. It exists in ipecacuanha to the amount of about 16 per cent., and appears to be the sole cause of its emetic property.

Em'eto-cathar'tie, a. (Med.) Noting a remedy which

Em elo-cathar'ile, a. (Mcd.) Noting a remedy which at the same time excites vomiting and purging.

Emetof'ogy, n. [Gr. emetos, vomiting, and logos, discourse.] A treatise on vomiting and emetica.

E'meu, Emew, n. (Zooi.) See Emu.

Emeuse', (d-mit',)n. [Fr.] An uproar; a riot; a popular outbreak or disturbance.

Emication, n. [Lat. emicatio.] Sparkling; flying off in small particles.

Emic'tion, n. [Lat. emicatio.] Urine; what is voided by the urinary measures

Emic'tion, n. [Lat. emicism.] Urine; what is voided by the urinary passages.

Em'igrant, a. [See Emigrant.] Removing or having removed, from one place or country to another distant place, with a view to reside.

—n. One who removes his habitation, or quits one country or region to settle in another.

Em'igrate, v.a. [Fr. émigre; Lat. emigro, emigratus.—e, ex. and migro, to remove from one place to another. See Migrant.] To depart or remove; to quit one country, state, or region, and settle in another; to remove from one country or state to another for the purpose of residence. residence.
Emigra'tion, n. [Fr. émigration.] The movement of

residence.

Emigravion, n. [Fr. émigration.] The movement of one or a number of people out of one place or country with a view to their settling in another, into which they are said to immigrate, (Lat. in, and migrare.) Persons coming from Europe, or Canada, with a view of settling in the U. States, should be called immigrants, and not emigrants, as they are commonly. See Immigrants, and not emigration.

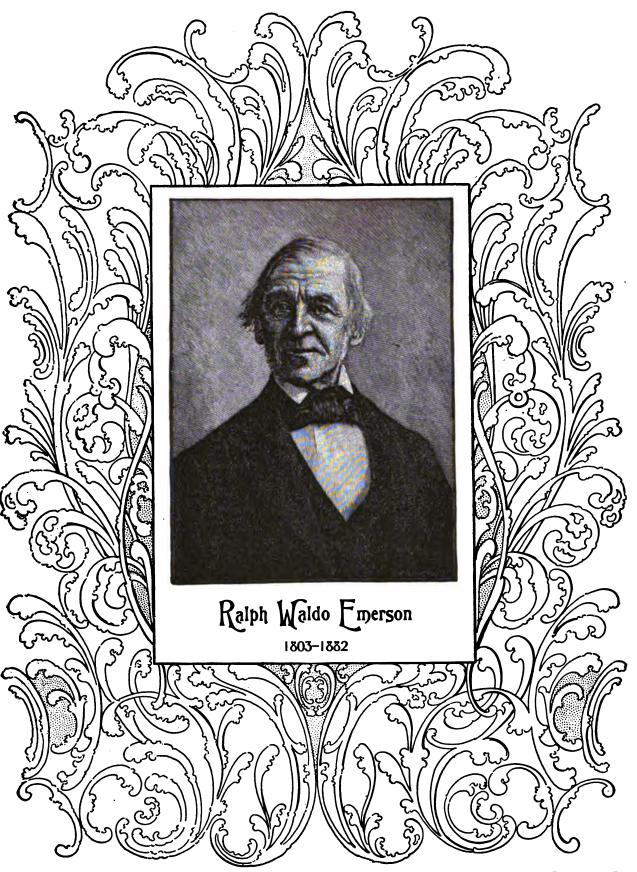
Emigravionia, a. Relating to emigration.

Emigravioniat, n. An advocate of emigration.

Emigravioniat, n. An advocate of emigration.

Emigras, (em'c-graix,) n. pl. (French Hist.) A term applied to those individuals who left France during the revolution. After the taking of the Bastle, the princes of the royal family, Monsicur (Louis XVIII.), the Count d'Artois (Charles X.), and the Prince de Condé, departed from France. They were speedily followed, in 1791, by all those who considered that their rights, privileges, and property had been interfered with improperly. Noblemen left their estates and domains; officers, with large numbers of private soldiers, priests, monks, and private individuals, passed over into Germany, Belgium, Itolland, Switzerland, and Pledmont. Very few of the émigrés had been able to save any property, and the greater proportion were consequently soon in a dreadful state of destitution. The princes themselves formed a court of Justice. Communications were kept up with the foreign courts, and thus the feelings of the revolutionary party in France were more and more embittered against them. At last a body of émigrés, under the command of the Prince de Condé, followed the Prussian army into Champagne. The republican government immediately put the strongest laws in force sgainst the émigrés. Any person found assisting or favoring them in any way was condemned to death, and the lands of all émigrés were conflacated. Although many of them had refused to fight against their country, 30,000 perin any way was condemned to death, and the lands of all imigries were conflicated. Although many of them had refused to fight against their country, 30,000 persons were put upon the list, and condemned to perpetons were put upon the list, and condemned to perpetons were put upon the list, and condemned to perpetons were put upon the list, and condemned to perpetons with the soil of France. The last attempt made by the interpeton to the Prince de Condé was broken up after the peace of Luneville, and sought a refuge in Russia. Under the Directory, many of the interpeton in Russia. Under the Directory, many of the interpeton in Russia. Under the Directory, many of the interpeton in Russia in the present annesty. By the largest proportion this was hailed with delight, and they return until after the restoration of Louis XVIII. Those who had remained loyal received many honors from the king, but were unable to regain their estates or their privileges, on account of the charter of 1814. In 1825, those in in the capture of the captu a compensation of 30,000,000 francs yearly, on the capital of 1,000,000,000 francs. This grant was, however, repealed during the July revolution of 1830.

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Em'igsville, in Pennsylvania, a post-village of York

zam agwvasse, in /zansyscania, a post-village of York.
Em'ille, in /zansyscania, a post-office of Bucks co.
Abraham occupied the country beyond the Jordan, afterwards possessed by the Mosbites. (Gen. xiv. 5;
Den'ille, in 10.)

Activate possessed by the Moshites. (Gen. xiv. 5; Dend. ii. 10.)

Em'inence, Em'inency, n. [Fr. éminence. See Eminence. Em'inence, Em'inence; elevated ground; elevation; height; a hill.—Highest part; summit; top.—A conspicuous place or position.—Exaltation; high rank; distinction; fame; celebrity.

A title of honor borne in Europe by various dignitaries at different times; but appropriated to cardinals by a papal decree of the year 1630.

Em'inence, in Illinois, a township of Logan co., abt. 40 m. N.E. of Springfield.

Em'inence, in Illinois, a township of Logan co., abt. 85 m. W.S.W. of Indianapolis.

Em'inence, in Kenincky, a post-village of Morgan co., abt. 40 m. E. of Louisville. Pop. (1890) 1,002.

Em'inence, in Kenincky, a post-village, cap. of Shannon co., on Current River, abt. 120 m. S.W. of St. Louis.

Em'inence, in New York, a post-village of Schoharie co.

Em'inent, a. [Fr. émient; Lat. eminens.] Rising up to be above others; high; lofty; elevated; exalted; exalted in rank; high in office; dignified; distinguished; conspicuous; prominent; famous; illustrious.

Eminent Domain, n. (Law.) The power to take private property for public use. It is well settled that such power exists only in cases where the public exigency demands its exercise. Whether the exercise of the right is justifiable in cases where the statute does not provide compensation is unsettled.

Eminetly, adv. In a high degree; in a degree to attract observation.

Eminematly, adv. In a high degree; in a degree to attract observation.

Emine ja, in Dukota, the old name of a frontier village in what is now Minnehala co., South Dakota, about 60 miles N. E. of Yankton.

Emain, (em'er.) n. [Ar., chief or lord.] The term applied to all independent chiefatins in the East, and in the north of Africa. The Caliphs took the title of Emiral-Numenia (chief or commander of the faithful). The title is now given by prescriptive usage to all real or supposed descendants of Mahomet by his son-in-law Ali, and his daughter Fatima. These are numerous throughout the Turkish dominions; but their prerogatives are minmportant, the principal being their exclusive right to wear turbans of a green color, which was a favorite with the prophet. The title is also applied to the rulers of provinces, and in connection with different words designates different offices. The master of horse to the sultants called E-Achor; the standard-bearer, E-Alem; the surveyor of markets. E-Bazaar; and the leader of caravans of pilgrims to Mecca. E-Hadji.

Emineary, n. [Fr. Emissuire: Lat. emissarius, from cmito. See Emir.] One sent forth or out; a person sent on a mission; a secret agent; a spy.

(Anal.) Vessels through which the excretions take place.

—a. Looking about: prying.

punce.

-a. Looking about; prying.

-a. Looking about; prying.

-a. Lat emissio, from emitto.]

Act of sending or throwing out; an issuing out; that

which is sent out or issued.

which is sent out or issued.

Emis'sory, a. Sending out; emitting.

Emis'sory, a. (Anat.) Applied to ducts, especially to certain veins, which convey fluids out of the body.

Emit', c. a. [Lat. emitto—e. e.z., and mitto, to send. See Mission.] To send forth or out; to throw or give out; to let fly; to discharge; to dart or shoot; to issue forth, as norther or deriver.

to let fly; to discharge; to dart or shoot; to issue forth, as an order or decree.

Emittent, a. Sending out; emitting.

Emilentom, in Pennsylvania, a post-village of Venango co, on the Alleghany River, abt. 20 m. S.S.E. of Franklin.

Emima, in Illinois, a post-village of White co., abt. 2 m. N.E. of the Lattle Wabash River.

Emimanuel, (cm.-mdn'u-cl.) [Heb., God with us.] A title of Christ, indicating the mystery and reality of his being God in human nature. (Ist. vi. 14, vili. 8; Matt. 1. 23.)

Emimanus, the village where Christ revealed himself to two of his disciples, on the afternoon of his resurrection-day. Essebius and Jerome locate it at the ancient Nicopolis, 20 m. W.N.W. of Jerusalem.

Emimanus, in Indiana, a former P. O. of Wabash co.

Em'mans, in Indiana, a former P. O. of Wabash co.
Em'mans, or Emans, in Pennsylvania, a post-village
of Lehigh co... 5 m. S.W. of Allentown: pop. abt. 900,

MEMBERS, O. 5 m. S.W. of Allenkown; pop. acmostly Moravians. See Enairs.

Em/mavillee, in Pennsylvania, a P. O. of Fulton co.

Em/mavillee, in Pennsylvania, a P. O. of Fulton co.

Em/men, two rivers of Switzerland, one rising in the
Bernese Oberland, and, after a course of 40 m., joining
the Aar, 2 m. from Soleure; the other also rising in the
Bernese Oberland, and, after a course of 30 m., joining
the Reuss 2 m. from Lucerne. The valley of the first is one of the finest in Switzerland.

ago, I drive or expel.] (Med.) A medicine to promote mental discharge.

ago, I drive or expel.] (Med.) A medicine w promove mentrual discharges.

Remmenol Yogy, n. [Gr. emmenia, and logos, a discourse.] (Med.) A treatise on menstruation.

Emi'met, n. [Sax. dmytta, dmet. O. Ger. amicsa, an emmet, from emaic, constant, sedulous; Lith. amis, a space of time, duration of time.] An ant or pismire, so named from its industrious and persevering habits. See Prayment m.

Emmerich, a town of Prussia, on the Rhine, 5 miles from Cleves. Manuf. Woollens, hosiery, &c.

Empar'adise, v. a. See IMPARALLE.

involved in the revolutionary troubles of 1802-3, and was arrested, tried, and sentenced to death, which he suffered, 20th Sept., 1803. E was engaged to be married to Sarah, daughter of the Right Hon. J. P. Curren (q. v.), who, after the untimely death of her lover, died of a broken heart. This event gave rise to one of the poet Moore's finest "Melodies," — "She is far from land where her young hero sleeps."

Empassionate, a. See Impassion.

Empassionate, a. See Impassion.

Empeach', v. a. Bee Impassion.

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Empeach', v. a. To cover with pearls, or anything resulting pearls.

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EMPA

40 m. R. of Macon.

Emn'mett, in Rinois, a township of McDonough county.

Emn'mett, in Iosea. a N.N.W. co., bordering on Minnesots; area, about 450 sq. m. Rivers. Des Moines, and one or two smaller streams. There are several small lakes near the N.E. border. Surface, level; soil, generally fertile. Cap. Estherville. Pop. 8,000.

—A township of Emmett co.

Emn'mett, or Emn'met, in Michigan, a N. co. of the lower peninsula, bordering on Lake Michigan; area, 438 sq. m. Surface, level; soil, fertile. Cap. Harbor Springs. Pop. (1894) 10,381.

Emmett, or Emnmett, in Michigan, a flourishing township of Calhoun co.

—A post-township in the N.W. part of St. Clair co.

Emmmett, in Wisconsin, a village and township of Dodge county, about 40 m. E.N.E. of Madison.

Emm'mettsburg, in Iosea, a city, cap. of Palo Alto co., on the west fork of Des Moines river, abt. 55 m. N.N.W. of Fort Dodge. Has manuf. interests and a large general trade. Also called Emm'rsburg. Pop. (1897) abt. 2,000.

Emm'mettsville, in Indiana, a post-village of Randolph co., abt. 75 m. E.N.E. of Indianapolis.

Emm'mittsburg. in Maryland, a post-village of Fred-

co., abt. 75 m. E.N.E. of Indianapolis.

Emmew', v. a. To confine; to coop up.

Em'mittsburg, in Maryland, a post-village of Frederick co., abt. 50 m. N.W. of Baltimore. It is the seat of St. Mary's College.

Em'monite, s. (Min.) Same as STEONYLANITE (q. v.).

Em'monsburg, in New York, a P. O. of Fulton co.

Emolies'cence, n. [Lat. e, out, and mollescere, to become soft.] The softening of a metal in beginning to met

melt.

Emol'linte, v. a. [Lat. emollio, emollitus—e, ex, and mollio, from mollis, soft, tender.] To soften; to render effeminate.

Emol'lient, a. [Lat. emolliens.] Softening; making

supple: acting as an emollient.

-n. (Med.) An external application which softens, soothes, or allays irritation, and alleviates inflammatory soreness, swelling, and pain. E. of honey, gum, sugar, and eggs are among the chief internal articles; and poultices, fomentations, and hot water, the best of the

and eggs are among the chief internal articles; and poultices, fomentations, and hot water, the best of the external.

Emolition, n. The act of softening. (a.)

Emolition emolior, to move out with effort—e, and molior, to exert one's self, from moles, a shapeless, heavy mass. See Mole.] The result of effort; gain; advantage; the profit arising from office or employment.—That which is received as a compensation for services.—Profit; advantage, in a general sense.

Emolimential, a. Useful; yielding profit.

Emolory, in California, a township of Stanislaus co., alt. 24 m. S. E. of Stockton; pop. about 800.

Emolory, in Virginia, a post-office of Washington co.

(Phil.) A state of feeling awakened through the medium of the intellect, and manifesting its existence and character by some sensible effect on the body. An Ediffers from a possion in this, that it passes amy without exciting any desire, whereas a passion is accompanied by desire. Emotions, regarded in themselves, can hardly be called springs of action. They tend rather to quiescence and contemplation, fixing the attention on the objects or occurrences which have excited them. But they combine with springs of action, and give them a character and a coloring.

Emolition, v. a. To nove; to excite.

Emps. A contraction for Emperen, from L. Lat. impalar—in, and palius, a pale, a stake.] To fence or fortify with pales or stakes; to set a line of stakes or posts for defence; to inclose; to set a line of stakes or posts for defence; to inclose; to

ing with stakes. — A terrible mode of torture and death in vogue among the Romans, and till lately of common practice among the Turks. The mode was, to run a long, sharp stake through the body, and out at the shoulder, and, fixing the end firmly in the ground, leave the writhing wretch to expire on this inhuman spit.

"And when I have the bloody Hector found,

Empels him with your weapons round about," - Shake, (Bot.) The calyx of a plant.
(Her.) A conjunction of coats of arms, pale-wise.

Empan'el, v. a. and n. See Impanel.

Empeach', v. a. Bee Impasionate.
Empeach', v. a. Bee Impace.
Empeach', v. a. Bee Impac

18, 1871; and Queen Victoria assumed the title of Empress of India in 1876.

Emprever-metha, n. (Zoil.) A species of the European moth, of the genus BATURNIA, q. r.

Emm'petraceem, n. [From Gr. em, upon, and petros, a stone; alluding to the places of its natural growth.]

(Bot.) The Crowberry family, an order of plants, alliance Euphorbiales. Diac. Definite, ascending, anatropal ovules, and an inferior radicle. They are small, heath-like, evergreen shrubs, mostly natives of N. Europe and N. America. Flowers dicecious. Calyx consisting of hypogynous, m.

ecious. Calyx consist-ing of hypogynous, im-bricated scales. Sta-mens equal in number to the inner sepals, and alternate with them. Ovary 3-9-celled, with a single erect ovule in each cell. Styles short or al together vanting. Stigmas lobed, and often lacerated. Fruit drupe seated in the often lacerated. Fruit drupe seated in the persistent calyx, con-taining 3–9 bony nu-cules. Seeds solitary ascending, a lbu mi-nous. Radicle inferior. The leaves and fruit are generally slightly acid. The berries of Empetrum negrum, the crowberry, are eaten in the very cold parts of Europe, and are also employed in



Fig. 937. - CROWBERRY. b. fruit out open ; c. flower.

are also employed in Greenland to prepare a fermented liquor. Also used in the preparation of a beverage which is said to have a medicinal value in febrile complaints. The order includes 4 genera and 4 species.

Empet trum, n. (Bot.) The typical genus of the order

Empertrum, n. (80c.) The typical genus of the order Empiracas, q. v.
Em'phasis, n.; pl. Em'phasis, (6r. emphasis—en, and phasis, a declaration, a saying, from phemi, to speak, from the ancient phao, to shine, to be bright, to appear.] A strong and energetic utterance or pronunciation; a stress of force of voice laid on a word or clause of a sentence, in order to enforce a meaning; a distinctive intonation given to one or more words in reading and speaking, in order to draw attention to their value in the sentence: impressivenes: significance: weight: in the sentence; impressiveness; significance; weight; the marked attention which a writer or speaker bestows na topic, by which it is brought into prominent notice.

Em'phasise, v. a. To read or speak with emphatic distinction; to place emphasis on; to make emphatical.

Emphat'ie, Emphat'ical, a. [Fr. emphatique; Gr. emphatikus.] Requiring emphasis; characterized by peculiar force or expressiveness; significant; expressive; forcible; earnest; strong; energetic.

Emphat'ically, adv. With emphasis; strongly; forcibly.

Emphat/icalness, n. State of being emphatical.
Emphly/sis, n. [Gr. cn, in or upon, and phlysis, eruption.] (Mod.) Eruption of vesicular pimples filled with an acrid fluid.

Emphrac'tie, a. [Gr. emphraktikos, obstructing, from

of the skin.

Emphysema, n. [Gr. emphysema, inflation, from emphysen, to inflate, from em, for en, in, and physen, to blow; Fr. emphyseme.] (Med.) E., or wind-dropsy, is a swelling of a part or the whole body, caused by the entrance of air into the cells of the cellular tissue. E is most frequently caused by a fractured rib, which, lacerating the lungs, causes — by constant inspiration of the lungs—the air to enter the cellular tissues, till it is gradually diffused over the body. It also arises from wounds in the throat, or from injury to the lungs or windpipe. The only disease with which E. can be confounded is that of general dropsy, or anasarca; from this, however, it is easily distinguished by the crackling sound produced under the fingers by handling the swollen parts, and by the absence of the pits when pressed, which always show when water is the cause of the distention.

Emphysem atous, a. [Fr. emphysemateux.] (Med.) Bloated; swollen; inflated.

Emphysem atous, a. [Fr. emphysemateux.] (Med.) Bloated; swollen; inflated.

Emphysem atous, a. [Gr. emphyteusis, from emphyteucin, to plant or improve land.] (Civ. Law.) A contract, by which the owner of a piece of land granted it to another, either in perpetuity or for a long time, on condition that he should improve it by building, planting, or cultivating it, and should pay for it an annual rent.

Emphyse, n. [Fr., from Lat. imprium, from impero, to command. See Empenc.] Absolute anthority; suppreme power in governing; imperial power; sovereignty; supreme control; governing influence; sway; rule.—Any region, land, or water, over which dominion is extended.

Emphre, in Illinois, a flourishing township of McLean county. Emphyse'ma, n. [Gr. emphysema, inflation, from en

Empire, in Michigan, a post-office of Leelenaw co.

Empire, in Michigan, a post-office of Leelenaw co. Empire, in Minesoda, a township of Dakota co., about 10 m. W.S.W. of Hastings. In Minnesoda, a post-village of Empire township, Dakota co., on the Vermilion River, abt. 20 m. S. of St. Paul. Empire, in Wisconssia, a post-township of Fond du Lac. Co., abt. 4 m. E. of Fond du Lac: Empire City. in Olifornia a village of Stantalane

co., abt. 4 m. E. of Fond du Lac:

Emplre City; in Culifornia, a village of Stanislaus
co., abt. 40 m. S.E. of Stockton.

— A town of Tuolumne co., on the Tuolumne River.

Emplre City, in Colorado, a post-town of Clear Creek
co., abt. 48 m. W. of Deuver.

Empire City, in Nevada, a village of Ormsby county, on the Carson River, about 3 miles E. by N. of Carson City.

Empire City, in Oregon, a post-village, capital of Coos county, on Coos Bay, about 5 m. from the Pacific

Empire Iron Works, in Kentucky, a P.O. of Trigg co.
Empire Junction, in Wisconsin, a post-office of
Columbia co.

Empir's sumettom, in wisconin, a post-omce of Columbia co.

Empir'le, n. [Fr. empirique; Gr. empeirikos, experienced, from empeirazo, to make trial of—en, and peiraō, to attempt, to try; allied to Lat. peritus, skilful.] One whose knowledge is founded exclusively on experience; also, a quack; an ignorant pretender to medical skill; a charlatan.

(Hist. of Med.) The empirics were a regular sect of ancient physicians in the time of Celsus and Galen, who gives us some insight into their modes of thought and practice. They laid great stress on the unprejudiced observation of nature; and thought that, by a careful collection of observed facts forming a history, the coincidence of many observations would lead to unalterable prescriptions for certain cases. The later adherents of the school excluded all theoretical study, even that ble prescriptions for certain cases. The later adherents of the school excluded all theoretical study, even that of anatomy, and were guided solely by tradition and their individual experience. By an empiric in medicine is now understood a man who, from want of theoretic knowledge, prescribes remedies by guess according to the name of the disease or to individual symptoms, without thinking of the constitution of the patient or other modifying circumstances. What are called *specifics* are administered on this principle, or, rather, want of principle.

Empirie, Empirical, a. Pertaining to exper ments, or resting on experience; versed in experiments following or relying upon experience; derived from experiments; used and applied without science; characteristic

Empir'ically, adv. By experiment; according to experience: without science; in the manner of quacks.

Empir'icism, n. [Fr. empirisme.] Dependence of a physician on his experience alone in practice, without the aid of a regular medical education; the practice of medicine without a medical education; quackery.

the aid of a regular medical education; the practice of medicine without a medical education; quackery.

Empiricist, n. An empiric.

Emplace'memt, n. [Fr.] Act of placing; foundation; pluce; site, as of a building.

Emplace'site, a. [Fr. emplactique.] (Med.) A constipating medicine.

Emplead', v. a. See Infland.

Emplead', v. a. [Fr. employer; Lat. implico—in, and plico, to fold. See Ply.] To engage; to occupy; to make busy; to keep at work; to exercise; to engrose. To make use of; to use; to engage, as an agent, substitute, instrument, or means.—To apply or devote to an object.—To fill up with occupation.

—n. That which engages the mind or occupies the time and labor of a person; business; object of study or industry; employment; occupation; engagement; duty; public office; agency; service for another.

Employ'able, a. Capable of being employed.

Employ'able, a. Capable of being employed.

Employ's left, a. Capable of being employed.

**EMS** 

Empoisoned, p. a. Poisoned; tainted with venom; imbittered.
Empoisoner, m. One who destroys by poison; a

poisoner.

Emppo'ria, in Kausas, an important city, cap. of Lyon
co., on Neosho river and the M., K. & T. and A., T. &
S. F. R. Rs., 61 m. S. S. W. of Topeka. Has extensive
manufacturing industries, and is the trade center of a
large region; seat of a State Normal School and of the
College of Emporia (Presbyterian). Pop. (1897) about

Emporia, in Virginia, a post-borough, cap. of Greenville co. Pop. (1897) about 1,500.
Emporiums, a. [L., from Gr. emporios, from emporenosa, to go, travel, or pass into, to travel for traffic or renoma, to go, travel, or pass into, to travel for traffic or business—en, and poroa, a way, passage, or thorough fare; from peraó, to pass through; allied to Sax, faras, to go.] A trading-place; a mart; a place for merchandise; a town or city of trade; particularly, a town or city of extensive commerce; as, New York, Philadelphia, and Boston are the great emporisms of the East. Empo'rium, in Penna, a post-b-rough, cap. of Cameron co., on 3 railroad lines, 73 m. N. W. of Lock Haven. Has some manuf. Pop. (1887) about 2,500.

Empow'er, v. a. [En and power.] To give legal or moral power or authority to; to confer authority upon; to authorize; to commission; to enable; to give power or authority for any purpose.

Emp'press, n. [Contracted from emperas; Fr. impératrice, from L. imperatriz.] The consort or spouse of an emperor.—A female invested with imperial power or sovereignty.

emperor. — A remain investor with imperial power of sovereignity.

Emprise', n. [O. Fr. emprise.] An attempt or undertaking of danger; enterprise.

Emprise' on, v. a. See Imprison.

Empronthot'onoa, n. [Gr.] (Med.) A spasmodic action of the muscles, by which the body is involundant formal.

Empression to romos, n. [Gr.] (Med.) A spasmodic action of the muscles, by which the body is involuntarily drawn forward.

Emp'timens, n. A state of being empty; a state of containing nothing but air; destitution; absence of matter; void space; vacuity; vacuum; want of solidity or substance; inability to satisfy desire; want of intellect or knowledge.

Emp'tion, n. [Lat. emptic.] The act of purchasing.

Emp'tional. a. That may be purchased.

Emp'tional. a. That may be purchased.

Emp'ty, a. [Sax. aemti, aemtig, emtig, vacant, free, idle; aemtian, to be at leasure, to be vacant. Etymol. unknown.] Vacant; evacuated; containing nothing, or nothing but air; not filled; void; devoid; destitute of solid matter, or of force or effect; unsubstantial; unsatisfactory; unsupplied; unburdened; having nothing to carry; hungry; vacant of head; ignorant; unfruitful; producing nothing; wanting substance; wanting solidity; destitute; waste; desolate.

-v. a. [A. S. aemtian.] To make empty, void, or destitute; to deprive of the contents; to pour out the contents of; to waste; to make desolate.

-v. n. To become empty; to pour out or discharge its

To become empty; to pour out or discharge its

-v. n. To become empty; to pour out or discharge its contents.

Emp'tying, n. Act of pouring out or making empty.

pl. Sediment or lees of beer, cider, &c.; yeast. (U. S.)

Empty'sis, n. [Gr.] (Med.) Expectoration of blood caused by hemorrhage of the lungs.

Empur'ple, v. a. [Em and purple.] To tinge or dye of a purple color; to discolor with purple.

Empur'pled, p. a. Stained with a purple color.

Empye'mas, n. [Gr., suppuration.] (Med.) A collection of purulent matter in the cavity of the thorax. This is an occasional termination of pleurisy, and is attended by difficulty of breathing and inability to lie on the side opposite that which is affected; an external swelling is sometimes perceptible, and the matter has occasionally been let out by making an opening between the sixth and seventh ribs.

Empye'sis, n. [Gr.] (Med.) A pustulous eruption.

tween the sixth and seventh riba.

Emply e'sis, n. [Gr.] (Med.) A pustulous eruption.

Emply e'sal, a. [Gr. empyros, from en, in, and pyr, fire.]

Formed of pure fire or light; refined beyond sérial; pertaining to the highest and purest region of heaven.

Emply e'san, n. The highest heaven, where the pure element of fire has been supposed to exist.

Emply eu'ma, n. [Gr., from empyroso, I kindle.]

That rank, burnt smell peculiar to wood when distilled under certain conditions. It is this odor that gives to tar, creosote, and smoked meats their distinguishing feature.

feature.

Empyreumat'ic, Empyreumat'ical, a. Having the smell or taste of burnt substances; as, empyreumatical oils.

Empyr'ical, a. [Gr. empyroris, prepared by fire.]

Belonging to combustion, or to combustibility.

Ems, a river of Germany, rising in Lippe-Detmold, traversing Westphalia, and after a course of 150 m. falling into the bay of Dollart, in the N. Sea.

Ems, a spa of Prussia, prov. Hesse-Nassau, on the Lahn, 7 m. 8. E. of Coblents. The springs vary in temperature from 93° to 103° Fahr., and have long enjoyed a European celebrity. Pop. 5,438.

emphrassein, to block up.] (Med.) Stopping up the pores of the skin.

Emphyse ma, n. [Gr. emphysema, inflation, from emphysen, to inflate, from em, for en, in, and physen, to inflate, from em, for en, in, and physen, to inflate, from em, for en, in, and physen, to inflate, from em, for en, in, and physen, to inflate, from em, for en, in, and physen, to inflate, from em, for en, in, and physen, to inflate, from em, for en, in, and physen, to inflate, from em, for en, in, and physen, to inflate, from em, for en, in, and physen, to inflate, from em, for en, in, and physen, to inflate, from em, for en, in, and physen, to inflate, from em, for en, in, and physen, to inflate, from em, for en, in, and physen, to inflate, from em, for en, in, and physen, to inflate, from em, for en, in, and physen, to inflate, from em, for en, in ed, in the Cassowary; they nearly equal the Ostrich in bulk, but have short legs and a shorter neck. It measures trade; profession; post; function.

Empluye'ment, n. Act of employing or using; that which engages the head or hands; business; vocation; occupation; a singular bird, native of Australia, allied to the Cassowary; they nearly equal the Ostrich in bulk, but have short legs and a shorter neck. It measures trade; profession; post; function.

Empluye'ment, n. Act of employing or using; that which engages the head or hands; business; vocation; occupation; a singular bird, native of Australia, allied to the Cassowary; they nearly equal the Ostrich in bulk, but have short legs and a shorter neck. It measures trade; profession; post; function.

Empluye'ment, n. Act of employing or using; that which engages the head or hands; business; vocation; occupation; a singular bird, native of Australia, allied to the Cassowary; they nearly equal the Ostrich in bulk, but have short legs and a shorter neck. It measures or the under parts; the nead the Cassowary; they nearly equal the Ostrich in bulk, but have short legs and a shorter neck. It measures on the cassowary; they nearly equal the Ostrich in b of the chin and throat nearly destitute of any, so that the purple color of the skin may be seen through them; the long feathers observable in the wings of the Casso-wary of the Old Continent are here wanting; but in-stead of them are real wings, though of so small a size as to be useless for flight; they are covered with feathers like the rest of the body, and when the bird is quite at rest, are scarcely discernible therefrom. The legs are

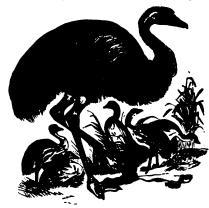


Fig. 938. - RMU AND YOUNG.

stout, similar to those of the Galeated Cassowary, but stont, similar to those of the Galeated Cassowary, but greatly indented or jagged at the back part; the three toes placed in the same manner, all forwards. So far the external appearance of the bird; internally, it is said to differ from every other species, particularly in having no gizzard, and the liver being so small as not to exceed that of a blackbird. It is shy and timid, trust-ing to its great speed for safety, except when hard pressed; it then strikes violently with its legs. The flesh of the young is delicate, but that of the full-groun bird is coarse; it is pursued, however, for the oil that is obtained from it, of which the akin produces six or seven quarts.

is obtained from it, of which the skin produces six or seven quarts.

Emr'uliste, v. a. [Lat. æmulor, æmulatus, to make one's self a rival, from æmulus, that strives after another earnestly; allied to Gr. hamillaomai, to contend with another, from hamilla, a contest for superiority, from hama, at once, together with; akin to Sansk. sam, with.] To strive or contend with; to strive to equal or excel, in quantities or actions; to imitate, with a view to equal or excel; to rival; to vie with; to be equal to.

Emmulation, m. [Fr. émulation, from L. æmulatio.]
Act of emulating or of attempting to equal or excel in qualities or action; desire of superiority; competition; rivalry; desire of excelience, attended with effort to attain to it; contention; contest; struggle; strife.

Emr'ulative, a. Inclined to emulation; rivalling; disposed to competition.

Emr'ulatives, m. [Lat. æmulator; Fr. émulateur.] One who emulates; a rival; a competitior.

Emr'ulatives, m. [Fr. émulative.] She who emulates.

Emmul'geont, a. [Lat. æmulgeo, emulgeus — e, ex, and mulgeo, to milk.] (Anat.) Belonging or relating to the renal artery and vein.

—n. (Anat.) The artery and vein which go from the aorta and vena cava of the kidney are so called, from the stidneys.

the ancient notion of the blood being, as it were, strained in the kidneys.

(Med.) Any medicine used to excite the flow of bile.

Em'ulous, a. [Lat. amulus.] Desirous or eager to emulate, or to imitate, equal, or excel another; desirous of like excellence with another; rivalling; engaged in

Em'ulously, adv. With desire of equalling or excelling another.
Em'ulousness, n. Quality of being emulous; rivalry;

competition.

competition.

Emul'sion, n. [Fr. émulsion; from Lat. emulsus, from emulgo.] (Med.) A milky preparation made by uniting oil and water through the intervention of some substance capable of combining with both.

Emul'sive, a. Milk-like; softening; producing or yielding a milk-like substance.

Emune'tory, n. [L. Lat. emunctorium, a pair of sunfers, from emungo, emunctus—a, ex, and obsol. mungo, to blow the nose; Gr. mysso.] (Anat.) Any part of the body which serves to carry off excrementitious matter; an excretory duct.

body which serves to carry off excrementations master, an excretory duct.

Emyd'oldee, n. pl. (Zodl.) See Terrapin.

Em, a prefix to many English words, and an inseparable particle borrowed from the French, and by them taken from the Latin. In many words, en is used for in, and in older writers the en is of perpetual occurrence, both

particles coinciding with the Lat. in and the Greek es. Many modern English words are written indiscriminately with either, as entire, enquire. The prefix of en issemetimes converted into em, especially before a labial, as employ, employer. By the Saxons, es was made a plural termination to a great number of words, as in known, excepts, etc., and is still preserved in that sense in exce and children.

in azza and children.

Ema Ble, v. a. [En, and able, q. v.] To make able; to supply with power; to furnish with sufficient power or ability; to empower; to strengthen; to authorize.

Emact's, v. [En and act.] To put in act or action; to establish by law; to pass, as a law; to give legislative sanction, as to a bill; to institute; to decree; to order; to act; to represent in action.

Enacting, p. a. Giving legislative forms and sanction.

Enactive, a. Having power to enact or establish, as

Enactiment, n. The passing of a bill into a law; the alaw, Enactiment, n. The passing of a bill into a law; the act of voing, decreeing, and giving validity to a law.

Enaction, n. One who enacts or passes a law; one who decrees or establishes, as a law.

Enaliesawiria, n. pl. [Gr. enalio, of the sea, and sauros, a lisard.] (Pat.) A name applied to the entire group of extinct Saurians, in the organization of which paddes, like those of the whale or turtle, were combined with the head and trunk of a crocodile.

En'allare, n. [Gr. enallarge, from enallasso.—en, and

win me nead and trunk of a crocodile.

Em'allage, n. [Gr. enallage, from enallasso — en, and allasso, to make other than it is, to change, from allos, Lat aluit, another. See ALIENATE.] (Gram.) An exchange or interchange; a change of words, or a substitution of one gender, number, case, person, tense, mood, or voice of the same word for another.

Reman'el. | Fr. femil | Accessed the Section | Accessed the Sect

mam'el, n. [Fr. &mail.] An opaque glass, which owes the opacity to the presence of binoxide of tin. Mixed with various metallic oxides and fused, it may be obwith various metallic oxides and fused, it may be obtained of different colors. The enamel for watch-faces is made from arsenic instead of tin. A coarse enamel made of white glass, free from lead, borax, and sods, is extensively used for coating the insides of culinary vessels. The process at first was unsuccessful, owing to the liability of the glass to split off under the influence of sudden heat; but great improvements have lately been made, and enamelled culinary utensils are now cheap and common.

sudden heat; but great improvements have lately been made, and enamelled cultinary utensils are now cheap and common.

—That which is enamelled. — A smooth, glossy surface of various colors, resembling enamel. — The smooth, hard substance which covers the visible part of a tooth. (Plint.) The art of applying vitrifiable colors on thin plates of metal (gold or copper) which are melted on to them, or on pottery, or even glass itself: the glass painting of the present time is chiefly enamelled. This art was practised by the aucient Egyptians and Etruscans. It was very commonly applied to ecclesiastical utensils and furniture during the Middle Ages, and was much in vogus with the Byzantina Greeka, and with the Moors. The town of Limoges, in France, acquired especial celebrity for this class of art, on metal plates. During the Revival in Italy, especially in the Cinque-cento period, it was much employed for table-services of pottery, and for the vessels of apothecaries. The famed Faenza or Majolica ware is simply enamelled earthenware. One of the first good enamellists, especially of portraits, was John Petitot of Geneva (1607–91). The various colors used are prepared from oxides of different metals, melted with some vitrescent mixture or flux, and laid on with a fine brush, the medium being oil of spike, or turpentite, or some other essential oil; and it is easy to conceive how much the difficulties of this nice art are increased where the object is not merely to lay a uniform colored glazing on a metallic surface, but also to paint that surface with figures and other designs that require extreme delicacy of outline, accuracy of shadowing, and election of coloring. The enamel painter has to work, not with actual colors, but with mixtures which he hows from experience will produce certain colors after the operation of the fire. This work requires several firings. The outline is first burnt in, after which the parts are filled up gradually with repeated burnings to the last finishing touches. The principal colors are

"Gured, p. a. Inflamed with love; charmed delighted.

congated.

Emanthe'sia, n. [Gr. en, in, and anthesis, blossom.]

(Mod.) An eruption on the skin, connected with an internal affectiou, ns measles.

Emanthiopath'ie, a. [From Gr. en, in; anti, against, and pathos, suffering.] (Med.) Relieving, but not curing; palliative.

and pathot, suffering.] (Med.) Helleving, but not curing; palliative.

Enanthiep'athy, n. (Med.) Allopathy.

Emantie'sia, n. (Gr., from enanties, opposite.] (Rhet.)

A figure by which what is spoken negatively is to be understood affirmatively.

Emana, (ai-na'ra,) a lake of Russia, in the extreme N. of Finland, is situated between Lat. 68° 30' and 60° 10'

B., and Lon. 27° 30' and 28° 45' E. It has an area of

ENCA

1,200 sq. m., and has numerous islands. Its superfluous waters are discharged into the Arctic Ocean.

Emar'ea, a country of Africa, south of Abyssinia, is situated within Lat. 7° and 9° N., and Lon. 36° and 38° E., but its limits have not yet been definitely ascertained. It is inhabited by a portion of the Gallas tribes, who, owing to the continued communication which they keep owing to the continued communication which they keep up with Abyssinia, and also to the residence of many Mohammedan merchants among them, are much more civilized than the Gallas in general. Their government is an hereditary and absolute monarchy. The principal rivers of E are the Gibbe and the Dodesa. Its coffee plantations are so extensive as to deserve the name of woods; they occur chiefly along the banks of the Gibbe.

E. is remarkable for its manufactures of ornamented E. is remarkable for its manufactures of ornamented arms, and of cloths with embroidered borders. Besides these, it exports slaves, gold, ivory, civet, and skins, into Abyssinia. The king and a small portion of the population are Mohammedans, and it is said that native Christians have been found here. The capital is Saka, a place of considerable importance, near the river Gibbe. Emargite, n. (Min.) A sulphite of copper and arsenic, of metallic lustre, and grayish to iron-black color. Emarthro'sis, n. [From Gr. en, in, and arthron, a joint.] (Anat.) The ball and socket-joint. A species of diarthrosis, or movable connection of bones, in which the round head of one is received into the deeper cavity of another, so as to admit of motion in every

which the round head of one is received into the deeper cavity of another, so as to admit of motion in every direction; as the head of the os femoris with the acotabulum of the os innominatum.

Encage, v. a. [En and cage.] To put into a cage; to shut up or confine in a cage; to coop.

Encamps, v. a. [Fr. en, and camp.] To pitch or fix a camp or camps; to pitch tents or form huts, as an army; to halt on a march, spread tents, and remain for a night or for a longer time; to lodge in a camp.

—v. a. To form into a camp; to place in a camp; to place a marching army or company in a temporary habitation or quarters.

or quarters.

Encamp'ment, s. [Fr.] Act of pitching tents or forming camps or huts, for temporary lodging or rest; the place where an army or company is encamped; a

the place where an anny of CANP, q.v.

Eneam this, n. [Gr., from kanthos, the angle of the eye.] (Med.) A small tumor or excrescence growing from the inner angle of the eye.

Enear dion, n. [From Gr. en, in, and kardia, the heart.] The heart or pith of vegetables.

Enear pus, n. [Gr. enkarpos, containing fruit.] (Arch.)

The festions on a frieze, consisting of fruits, flowers,

Emense', v. a. To inclose: to incase.

Encase'ment, n. The act of encasing.
Encash'ment, n. The payment in cash of a note draft. &c.

Encan'ma, n. [Gr., a brand.] (Med.) A tumor produced by a burn. — An ulcer of the cornea occasioning the loss of the humors.

Encaus'tie, a. [Gr. en, and kaustikos, burning, caustic, from kaiō, kausō, to burn.—See Caustic.] Pertaining to the art of painting in heated or burned wax.

to the art of painting in heated or burned wax.

n. (Fine Arts.) A method of painting that was practised to a great extent among the ancients, from the time of Alexander the Great until the 7th or 8th cent, from which time the art gradually declined until the 14th century, when it seems to have been abandoned, and a practical knowledge of effecting it entirely lost. According to the historian Pliny, there were three methods of performing the process; the first and second seem, however, to be almost, if not entirely, identical; the first being the method of producing large pictures, and the second, of producing designs in miniature. In the first kind, the color that was intended for the ground of the picture, after having been mixed with wax as a the first being the method of producing large pictures, and the second, of producing designs in miniature. In the first kind, the color that was intended for the ground of the picture, after having been mixed with wax as a vehicle, was smeared over the surface of the wall or panel on which the painting was to be made, and carefully fattened. The design, whether it was a figure or an arabesque border or scroil-work, was traced on this ground with a sharp-pointed instrument, and the ground carefully removed, leaving the figure in a sort of shallow intaglio. The wall beneath was allowed to show through or the hollow was filled with wax coloring-matter of another tint; after which the whole was blended together with a hot iron, — a process which removed all traces of the junction of the different colors, and imparted a brilliant gloss to the tints that were used. The second method, in which the work was executed on ivory, must have been similarly done, and the wax-color which had been spread over the ivory removed by the graving-tool, to allow the surface of the ivory to furnish the design; or the design was cut out on the ivory in intaglio, and the hollows thus obtained were filled with colored wax. In the third kind, in which the colors were laid on with a brush, the coloring-matter was mixed with wax dissolved in turpentine or some essential oil. The colors were laid on in a liquid state, and from the use of the brush an effect of light and shadow was obtained which it was impossible to produce in the other methods above described. When the picture was completed, the tints were blended together with a heated iron as before. About 1750, the lost art was recovered, and the practice of it revived, by M. Bacheller and Count Caylus in France. Both produced pictures in this style, and an account of the method used was published. It was warmly taken up throughout the south of Europe for some years, when it again fell into disues. It was revived again at Munich in the reign of King Louis of Bavaria, and the luteriors of

produced; but it is far better suited for decorative work

produced; but it is far better suited for decorative work than for portraits, figures, or landscapes.

E. tiles, small earthenware tiles used for paving the passages in the nave and aisles of churches, and also the chancel. They are also used for paving entrance-halls and the vestibules of houses. They are for the most part in two colors, red and yellow being most commonly used, and they are so called because they have a light arabseque pattern figured on them on a dark ground, or vice versid, in imitation of the early encaustic painting of the arcients. of the ancients.

Encaye', v. a. To put into a cave; to hide in a cave or

recess.

Emeciate, (ang-sant',) n. [Fr., from enceindre, to encircle.] (Fort.) This term denotes generally the whole area of a fortified place. Properly, however, it means a cincture or girdle, and in this sense the E signifies the principal wall or rampart encircling the place, comprising the curtain and bastions, and having the main ditch immediately outside it.

principal wall or rampart encircling the place, comprising the curtain and bastions, and having the main ditch immediately outside it.

—a. (Law.) Being with child; pregnant.

Encel'adus. (Myth.) A son of Titan and Terra, the most powerful of all the giants who conspired against Jupiter. He was struck with Jupiter's thunders, and imprisoned under Mount Ætna. Some suppose that he is the same as Typhon. According to the poets, the fiames of Ætna proceeded from the breath of £; and as often as he turned his weary side, the whole island of Sicily felt the motion, and shook to its very foundation.

Encephals r'tos, n. [Gr. ankephalos, and artos, bread.] (Bot.) A genus of plants, order Cycadacea, composed of elegant palm-like trees and shrubs, mostly natives of S. Africa and Australia. From the stems of various species a kind of sago, called Cafre-bread, is obtained.

Encephal'gia, n. [Gr. m, in, kephale, the head, and alges, pain.] (Med.) Deep-seated headache; cephalalgy.

Enceph'alic, a. [Gr. en, in, kephale, head.] Situated

in the head.

Enceph'slocele, n. [Gr. ankephalos, the brain, kele, a tumor.] (Med.) Hernia of the brain. There are two kinds of this disease: one occurs in young infants, before the skull is completely cesified; the other presents itself after the destruction of a part of the skull in consequence of disease, accident, or the operation of the trepan.

Encephalot'omy, n. [Gr. ankephalos, and tome, a cutting.] (Anat.) Dissection of the brain.

Enchafe', v. a. [Fr. chanfer.] To enrage; to irritate; to chafe.

tate; to chafe.

Emchmin', v. a. [Fr. enchainer—en and chain.] To put
within a chain; to fasten with a chain; to bind or hold
in chains; to hold in bondage; to enalave; to enthral;
to hold fast; to restrain; to confine.

Emchmin'ment, n. Act of enchaining; or state of

being enchained.

Enchant', v. a. [Fr. enchanter — en, and chanter, to being enchained, w. a. [Fr. enchanter — en, and chanter, to sing: L. canta, frequent. from cano, to sing: See CHANT.] To act upon or influence by songs of sorcery or fascination; to practise sorcery or witchers of any thing; to subdue by charms or spells; to charm; to captivate; to fascinate; to enrapture; to bewitch.

Emchant'ed, p. a. Affected by sorcery; fascinated; subdued by charms; delighted beyond measure; inhabited or possessed by elves, witches, or other imaginary mischievous spirits.

Emchant'er, n. [Fr. enchanteur.] One who enchants; a sorcerer or magician; one who charms or delights.

Emchant'mr. p. a. Charming: delighting: ravishing.

a sorcerer or magician; one who charms or delights.

Enchant'ing, p. a. Charming; delighting; ravishing.

Enchantingiy, adv. With the power of enchantment; in a manner to delight or charm.

Enchanting or of influencing by the agency of certain supposed spirits; the use of magic arts, spells, or charms; incantation; conjuration; magic; spell; sorcery; witchery; witchcraft; irresistible influence; overpowering influence of delight; fascination.—See Magic.

Enchant'reas, n. A sorceres; a woman who is versed in magical arts, spells, charms, &c.

—A woman whose beauty or excellencies give irresistible influence.

influence se', v. a. [Fr. enchässer — en, and chässis, a frame;

Enchase', v. a. [Fr. enchdsser — en, and chāssis, a frame; Lat. capsa, a repository, a chest, a box, or case; Gr. kapsa.] To incase; to infix or inclose in another body, so as to be held fast but not concealed; to adorn by embossed work; to enrich or beautify, sanny work in metal, by some design; to adorn by being fixed on the surface; to mark by inclaion.

Emchas'tem, v. a. To correct; to chastise; to chasten. Encheer', v. a. To enliven; to chest. Encheer', v. a. To enliven; to chest. Encheer', v. a. To the dischest of the metals of the metals. En'ehodus, n. [Gr. epchos, a spar, and odoys, a tooth.] (Pat.) A genus of fishes of the Mackerel family, found in the chalk formation.

Encho'rise, Enchor'ic Characters, n.pl. See Histoglyphics.

HIEROGLIPHICS.

En'cinal, or Ensimal, in Texas, a S. co.; area, about 1,700 sq. m. Rieers. Nueces and Salado rivers. Pop. estimated at 1,100 in 1897.

Encinc'cine, n. [Lat. en, and cincture. Pop. estimated at 1,100 in 1897.

Encin'cie, v. a. [En and circle.] To enclose or surround with a circle or ring, or with anything in a circular form; to encompass; to enclose; to surround; to environ; to embrace.

Encir'ciet, n. A small circle; a ring.

Encir'ciet, n. A small circle; a ring.

Encir'ciet, n. A small circle; a ring.

Encir'ciet, n. He enlarged the boundaries of astronomical science, and resolved the orbit of the comet called after his name. D. 1865.

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Encké's Comet, n. (Astron.) A comet of periodic re-currence, to which the attention of astronomers was first especially directed when it was discovered by M. Pons at Marseilles, November 28, 1818. The similarity of its elements to those of comets which had been observed in 1786, 1795, and 1805, led M. Encké to calculate its orbit, 1786, 1795, and 1805, led M. Encké to calculate its orbit, and he found the period of its revolution at that time to be just about 1,211 days. The comet reappeared in 1822, and on comparing its elements, and the time of revolution, with those of the comets of the years above mentioned, it was found that they were only successive apparitions of the same comet, and that it regularly appeared at its perihelion at intervals of rather more than 1,211 days. It was also found that its period of revolution was gradually growing shorter, at the rate of nearly three hours per revolution, which caused M. Encké to imagine that it was occasioned by some very slight resisting medium spreading throughout the whole of our solar system. It was named after M. Encké, instead of M. Pons, its discoverer in 1818, on account of the success of the former in determining its orbit and period of rev-

solar system. It was named after M. Encké, instead of M. Pons, its discoverer in 1818, on account of the success of the former in determining its orbit and period of revolution, and predicting its respipearance in 1826. For an account of its disappearance, see Comer.

Enclasp', v. a. [En, and clasp, q. v.] To clasp; to enclose; to embrace; to fasten with a clasp.

Enclit'ie, or Encha'ioal, a. [Gr. eng-klitikos—en, and clinō, to make, to bend.] (Gram.) Leaning; inclining or inclined; noting a particle or word as closely united to another as to seem to be a part of it; throwing back the accent upon the foregoing syllable.

Enclit'ic, n. (Gram.) A word which is joined to the end of another; a particle or word that throws the accent or emphasis back upon the former syllable.

—pd. The art of declining and conjugating words.

Enclos'ter, v. a. [Fr. enclotter.] To cloister.

Enclos'ter, v. a. [Fr. enclotter.] To cloister.

Enclos'ter, v. a. [Fr. enclotter.] To inclose.

Enclos'ure, n. Same as Inclosure.

Enclos'ure, n. En, and coffin, q. v.] To put in a coffin.

Enco'miast, n. [Gr. eng-komicas-tes, from eng-komicas, to praise, to land—en, komo, a jovial festivity, a festal ode. See Comedy.] One who praises another; a panegyrist; one who utters or writes encominans or commendations.

Encomiast'te, or Encomiastica, a. [Gr. eng/komiasticas.] Containing encomium or praise; bestowing praise;

Encomias'tic, or Encomiastical, a. [Gr. englomiasticos.] Containing encomium or praise; bestowing praise; praising; commending; laudatory.

praising; commending; laudatory.

—n. A panegyric.

Encomias tically, adv. In an encomiastic manner.

Encomium, n; pl. Encomiums. [Lat.; Gr. eng-comion See Exconstrs.] A laudatory oration; a high commendation; panegyric; applianse; eulogium; eulogy; praise.

praise.

Encom'pass, v.a. [En, and compass, q.v.] To move or go round; to encircle; to bring within a given circuit or compass; to inclose; to surround; to environ; to shut in and confine; to hem in.

Encom'passment, n. Surrounding; a going round.

Encom'passment, n. Su entertainment.

Encoun'ter, n. [Fr. encontre—en, and contre; Lat. contra, against.] A running or going against; a meeting front to front; a meeting in opposition or in contest; a conflict; a fight; a battle; a combat attack; assault; onset; a meeting; sudden or accidental meeting of two or more; eager and warm conversation.

or more; eager and warm conversation.

-a. [Sp. excontrd; Fr. fr. enc. drr. T.] To run or go against;
to meet face to face; to meet suddenly or unexpectedly;
to meet in opposition or in contest; to rush against in
conflict; to engage with in battle; to engage with; to
meet and oppose; to attack; to resist; to strive against.

-s. To meet face to face; to meet unexpectedly; to
rush together in combat; to fight; to conflict; to meet
in opposition or delata.

rush together in combat; to fight; to conflict; to meet in opposition or debate.

Encourage, (en.kur'aj,) v.a. [Fr. encourager—en, and courage.] To give courage to; to give confidence of success to; to increase the confidence of; to inspire with courage, spirit, or strength of mind; to embolden; to animate; to incite; to stimulate; to cheer; to inspirit; to support; to countenance; to cherish; to strengthen; to feater

to foster. Encouragement, n. [Fr.] Act of giving courage or confidence of success; incitement to action or to practice; incentive; that which serves to incite, support, promote, or advance.—Favor; countenance; research; none; ; profit.

Encourager, (en-kur'aj-er.) n. One who encourages. Encour'aging, p. a. Inspiring with hope and confi-

dence.

—a. Furnishing ground to hope for success.

Encouringingly, adv. In a manner to give courage or hope of success.

Encradile, v. a. To lay in a cradic.

Encrease, v. a. and n. See Increase.
Encrin'al, Encrin'ie, a. Relating to incrinites.
Encrin'ital, a. That contains the remains of incrinites.

Enerin 1181, a. That contains the remains of incrinites. Enerinites, (en'kri-nit), n. (Lat. enerinus, pl. enerini; Gr. en, and krinon, a lily.) (Pul. and Geog.) Any fossil crinoid or lily-like echinoderm. The encrinites, which form a most important class of fossils, are characterized by their long, many-jointed stalks, surmounted by flower-shaped bodies, which were furushed with numerous finger-like rays, capable of closing and expanding. Their

internal calcareous skeletons, in scattered joints and fragments, are so abundant in some carboniferous limefragments, are so abundant in some carboniferous limestones as to compose the greater portion of the mass; hence the term encrinal or encrinstal limestone. The minuter joints of the fingers and rays are usually termed entrocki, or wheel-stones, and the limestones in which they abound entrockal limestone. The stalk of the encriuite was perforated by a canal, which kept the whole in vital action; and the separated joints have consequently some resemblance to beads,—a resemblance which has obtained for them the common names of "St. Cuthbert's beads," "wheel-stones," and "pulley-stones." It is

stones." It is usual to apply the term Encrinites to the genera having rounded and smooth stems; those having pentag-onal and ornamented stems being termed Pentacrinites; those having pearshaped receptacles, Apiocri-nites; and those with receptacles

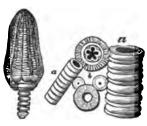


Fig. 939. — Encrinites.

forming more or a, a, portions of the stem; b, separate joints.

less perfect cups,

Cyathocrinites. Geologically, the encrinites range from Cyathocrinites. Geologically, the encrinites range from the Silurian up to the present period. They occur most abundantly in paleozoic and mesozoic strata, rarely in cainozoic, and are now only represented by the Comatula or Feather-star, and the all but extinct Pentacrinus of the West Indies. Like the corals, their function seems to have been to a great extent the secretion of lime from the ocean, whole strata of limestone, silurian and carboniferous, being almost entirely made up of their remains. remains

Encrinit'ic, Encrinit'ical, a. Relating to en-

crinites.

Eneroach', v. a. [O. Fr. encrocher, from croc, a hook. To catch and draw anything away, as by a hook; to seize upon; to make invasion, as upon rights and pos-sessions of another; to advance by stealth; to make inroad; to pass the proper bounds; to intrude; to in-fringe; to trench upon; to invade;—followed by on or

mpon.
Emcroach'er, n. One who encroaches.
Emcroach'ing, p. a. Tending or apt to encroach.
Emcroach'ingly, adv. By way of encroachment.
Emcroach'iment, n. [Fr. encrochement.] Act of encroaching; unlawful intrusion; advance into the territories or jurisdiction of another by silent means, or without right; invasion; inroad; that which is taken by accreaching on another.

tories or jurisdiction of another by silent means, or without right; invasion; inroad; that which is taken by encroaching on another.

Emcrusii, v. a. [En and crust.] To cover with a crust.

Emcrusiihanda, (en-kröös-sek-ya'da,) a village and harbor of Brazil, prov. of São Pedro-do-Rio-Grande, abt. 50 m. W. of Rio-Parde; pop. abt. 2,500.

Emcumiber, v. a. [Fr. encombrer, from L. Lat. incombrare, to entangle, to hinder, to obstruct.] To impede or embarrase by placing obstacles in the way of; to impede the motion of with a load, burden, or anything inconvenient to the limbs, so as to render motion or operation difficult or laborious; to load; to clog; to embarrase; to impede; to hinder; to obstruct; to trouble; to perplex; to entangle; to load with debts or legal claims.

Emcumiberance, p. a. Loaded; impeded in motion or operation by a burden or difficulties; loaded with debts.

Emcumibrance, n. That which encumbers; burden; load; clog; impedient; hinderance; legal claims or liabilities.

liabilities

Encur'tain, v. a. [En and curtain.] To inclose with curtains

Emcyc'hical, a. [Gr. engkyklikos — en, and kyklos, a circle. See Cycle.] Circular; sent to many persons or places: intended for many, or for a whole order of men

as a letter.

Encyclope'dia, Encyclope'dia, Cyclope'dia, n. [Fr. encyclopédie; Gr. engkyklopaideia, from
kyklos, a circle, and paideia, instruction.] Properly, a
work professing to give information in the whole circle
of human knowledge. The two terms are used synonymously; but the former is regarded as the more correct,
as denoting "in a circle," whereas the latter may mean
"of a circle." The present signification of E is entirely
modern. With the ancients, E was applied to the whole
circle of learning, a knowledge of which was necessary
to constitute a liberal education. It comprised grammar music geometry, astronomy and gymnastics. Vato constitute a liberal education. It comprised grammar, music, geometry, astronomy, and gymnastics. Various works of the ancients attempted to embrace the entire circle of knowledge; but they exhibit no plan, and are only confused accumulations of the then known arts and sciences. It does not, however, appear that arts and sciences. It does not, however, appear that the ancients ever applied the term E to any work of that kind. So far as is known, the word appears to have been first used in this sense by Alforabius, a learned Arab, who flourished in the 10th century, and whose work, remarkable for its learning and completeness, is preserved in MSS. in the library of the Ecurial at Madrid. From that time, and chiefly in this century, many E have been published, the enumeration of which would be uninteresting for the general reader. During the last twenty years the number of these books has been rapidly increasing, and their character improving. As knowledge increases, so must the demand for E also increase. As the sphere of knowledge extends, the less able is man, with his limited powers and capa-

cities, to embrace the whole circle; he must, therefore, have recourse to helps,—to books in which he can get what information he wants in a comprehensive and easily accessible form; and to furnish this is the object of an E.

Encyclope'dian, a. Relating to an encyclopedia; embracing the whole circle of learning.

Encyclope'dic, Encyclope'dical, a. [Fr. ex-

cyclopétique.] Pertaining to an encyclopedia.

Encyclope dist, n. One whose knowledge encompasses the whole range of sciences.—In a more restricted sense, one who compiles, or assists in compiling, an en-

sonse, one wan computes, or assaus in computing, an en-cyclopedia.

Encyst', v. a. [Gr. m, and kystis, the bladder, a bag, a pouch, from kuo, to hold.] To enclose in a cyst or vesicle. Encyst'ed, a. Inclosed in a bag, bladder, or vesicle, as [Gr. en, and kystis, the bladder, a bag, a a tumor.

End, n. [A.S. ende, ande, gende.] The extreme point of a line, or of anything that has more length than breadth; either extremity of such a thing; the extr breadth; either extremity of such a thing; the extremity or last part; close or conclusion; ultimate or final state or condition; point beyond which no progression can be made; termination; extreme limit; utmost bound; final determination; completion; conclusion; close of life; death; cessation; period; consequence; issue; result; conclusive event; a fragment or broken piece; the ultimate point or thing at which one aims or directs his views; purpose intended; scope; aim; drift.—e. a. [Sax.andian.] To bring to an end or termination; to finish; to terminate; to conclude; to close; to destroy; to put to death.—e. n. To come to an end, or to the ultimate point; to be finished; to terminate; to close; to conclude; to complete; to cease; to come to a close.

Endamn'agre, v.a. [En, and damage, q.v.] To bring loss or damage upon or to; to harm; to injure; to prejudice.

Endan ger, v. a. [En, and danger, q. v.] To put or bring into danger or peril; to put in hazard; to expose bring into

to loss or injury.

Enday'a, a river of S. America, joins the Orinoco River in Venezuela.

in venezueia.
Endear', v.a. [En, and dear, q. v.] To make dear or precious; to make more beloved.
Endear'edly, adv. With endearment; dearly.
Endear'edness, n. State of being endeared; endear-

ment.

ment.
Endear'ing, p. a. Making dear or more beloved; having a tendency to make dear or beloved.
Endear'ment, n. That which endears; ground of affection; that which excites or increases affection; the state of being beloved; tender affection.
Endeav'or, n. [Fr. dxcvir, probably from Lat. deberg, to owe, to be under obligation.] Effort put forth in the performance of duty; an exertion of physical strength, or of the intellectual powers, toward the attainment of an oblect or the accomplishment of a number of forth. an object or the accomplishment of a purpose; effort;

attempt; exertion; essay; aim; object.
v. n. To put forth or use efforts in the performance of duty; to exert physical strength or intellectual power for the accomplishment of an object; to try; to attempt; to strive; to labor; to struggle; to essay; to aim. v. a. To strive after; to attempt; to essay.

"And those were prais'd, who but endeavour'd well."

Endeav'orer, n. One who makes an effort or attempt. Endeavour Straits, (n.dec'or.) a channel separating the island of New Guinea from the N.W. coast of Australia; Lat. 10° 45' S., Lon. 142° 10' E.—Also a river of S. Australia, entering the Pacific in Lat. 15° 28' S., Lon. 121° 42' E.

Endecag's Endes, a. [Gr. endeka, and gyne, a female.]
(Bot.) Having eleven pistils.
Endec'agon, n. [Gr. endeka, eleven, and gonia, an angle.]
(Geom.) A plane figure of eleven sides and an-

angle.] (Geom.) gles; andecagon. gles; andecagon.
Endecaphs y'llows, a. [Gr. endeka, and phyllon, leaf.]
(Bot.) Having a leaf composed of eleven leaflets.
Endels 'tle, a. [From Gr. endeiknymi, to point out.]
Pointing out; exhibiting; showing.
Endeix'is, n. (Med.) Indications afforded by a disease
itself of what is proper to be done for its removal.
En demeure. [Fr.] (Law.) In default.—Used in

Louisiana Louisiana. Endem'ie, Endem'ie, a. (Mcd.)
Applied to diseases peculiar to a certain class of persons, or to a particular district. Thus ague is an endemic disease in low marshy countries: the golfre in the Alpa. They differ from epidemic diseases, which, without reference to locality or class, attack many persons at the same time in the same place, and are contagious; as influence scalet four Mr.

same time in the same place, and are contagious; as in-fluenza, scarlet fever, &c.
Endem'ic, n. A disease of an endemic nature.
Endem'ically, adv. In an endemic manner.
Endemiss'tion, n. The act of naturalising. (n.)
End'er, n. One who ends; a finisher.
En'derby Land, a large tract of land in the Antarctic Ocean, discovered in 1831 by Biscoe; Lat. 67° 30' S., Lon.

Ender mic. Ender matic Method, a.

Ender'mic, Ender'matic Method, a. (Mel.)
The application of medicinal agents to the denuded dermis. A blister is first usually applied: when the caticle is elevated, an opening is made in it to allow the serum to escape, and the medicine is then applied to the dermis, either with or without removing the cuticle. Morphia, strychnia, and various other agents have been thus applied.

Endlet', v. a. See Indic.

thus applied.
Emdlet', v. a. See Indict.
Endlet'ment, v. See Indicture.
End'ing, v. Termination; conclusion.
(Gram.) The terminating syllable or letter of a word.

En'dion, in Minnesota, a village of St. Louis co., on Lake Superior, abt. 8 m. N. by W. of Superior City.

En'dite, s. a. See Indita.

End'leas, a. Without end; having no end or conclusion; eternal; everlasting; interminable; infinite; unlimited; incessant; perpetual; uninterrupted; continual; perpetually recurring; seemingly without end.

End'leasly, ade. Without end or termination; incessantly; perpetually; continually.

End'leasness, s. Quality or state of being endless.

heart.] (An of the heart art.

mond the endocarp forms a thin woody shell; in the apple it is the core containing the seeds, and in the orange it constitutes the thin membranous partitions which di-vide the pulp into



VERTICAL SECTION OF A PEACH. 1, sarcocarp.
2, endocarp or putamen.

separate portions.
En dechrome, n.
[Gr. cados, within, and chroma, color ] (Physiol.) The colored material which fills vegetable cells, exclusive of the green, which is

colorophys.

Ender generals, a. (Bot.) Increasing by internal growth; having the nature of endogens.

Endergens, n. pt. [Gr. cadon, within, and ginomai, to grow. See Generals; [Bot.] The 4th class of plants in the system of Lindley, and so called because their stems grow by successive additions to the inside; that is to may, by the addition of woody vessels towards the interior, (see Fig. 52.) so that the outer part is the oldest and hardest. They have no woody rings as in Exogens, and no true medullary rays. They are usually known by the vehas of their leaves running parallel with each other, without branching or dividing. Grasses, Lilies, the Asparagus, and similar plants, belong to this class, which in warm countries contains trees of large size, such as Palms and Screw-Pines. This class includes 17 alliances enumerated under Boxarts, q.v. See also Age alliances enumerated under BOTANY, q. v.

or Flants.

Endeph'ylleus. or Endophyl'Lous, a. [Gr. endon, within, and phyllon, leaf.] (Bot.) Applied to the young leaves of Monocotyledons, from their being crossed with a sheath, while those of exogens are not so inclosed.

Endephen'rm, m. [Gr. endon, within, and pleara, a rib, the side, the membrane that lines the cheet.] (Bot.) The internal integument of a seed.

Enderhi'sm, n.; Pd. Endoniusm. [Gr. endon, within, and risa, root.] (Bot.) The name given by Richard to the embryo of Monocotyledons, in which the radicle has to rupture the integument at the base of a seed prior to entering into the earth, appearing as if it came from within the mother root.

to entering into the earth, appearing as if it came from within the mother root.

Inderh 'saal, or Exporantzous, a. (Bot.) Relating or belonging to the mode of germination in endogens. Inderse', e. a. See Indoss.

Inderse', e. a. See Indoss.

Inderse', e. a. (Gr. endon, within, and skeleton, a dry body.] (Anat.) See Skelkfor.

Indersement eter, n. [Eng. endosmose, and Gr. metron, measure.] (Physics.) An instrument for measuring the free of the endosmosmic action.

Indersement of the endosmosmic action.

Endocume met'ric, a. Pertaining or relating to the measurement of the endocumesmic action.

Endocumence, or Exposino'sis, n. [Gr. endon, within, and come, impulsion; Fr. endocument.] (Physiol.) A term originally applied by Dutrochet to the transfusion of gaseous bodies or liquids through membranous substances either of an animal or vegetable origin. He found that if two fluids of unequal density are separated by a membrane, the deuser fluid will attract or draw to it the less dense. When the attraction was from within out inwards, he called it endocumes; when from within outwards, he called it exocumes. In animals and vegetables this remarkable action of fluids performs a very important part. Upon it depend many phenomena connected with the circulation of the blood in animals and the circulation of the substance. The substance important part. Upon is urgous and important part.

betted with the circulation of the blood in animals and the circulation of the sap in vegetables. The substance contained within the membranous covers of the cells of plant is denser than the fluids without; hence a process of endosmose takes place by which the plant is supplied with nourishment from the soil. The bursting of some seeds and fruits depends upon endosmose; and some of the entorso appear to exist by its action.

Endesmee'mic, Endesmet'ie, a. Relating to entesmose; osmotic.

Endesmeerm, n. [Gr. endon, within, and sperma, seed.]

ent-sence; camotic.

Enfee'Die, v. a. [En and sected.] 10 make sective; we use section of sections of sections.

Endesperm? (e. a. (Bot.) Denoting that the embryo has endosperm.

Endesperm? (e. a. (Bot.) Denoting that the embryo has endosperm.

Enfee'Die, v. a. [En and section of secti

a marriage-portion, dowry, from Gr. didomi, to give.]
To furnish with a dower or marriage-portion; to settle
a dower or; to settle on as a permanent provision; to
furnish with a permanent fund of property.— To enrich

furnish with a permanent fund of property.— To enrich or furnish, as with any gift, quality, or faculty.— To indue; to invest.

Endowed', p. a. Having a dower settled on; furnished with a portion of estate; supplied with a permanent fund; indued.

Endow'er, n. One who enriches with a dower.

Endow'ment, n. Act of endowing, or of settling a dower on a woman, or of settling a fund for the support of a clergyman, or of a professor, &c.; that which is bestowed or settled on; property, fund, or revenue permanently appropriated to any object; any quality with which one is endowed; gift of nature; any quality or faculty bestowed by the Creator.

Endur'able, a. That can be endured; that can be borne or suffered.

Endur'ableness, n. State of being endurable.

Endur'ableness, n. State of being endurable.
Endur'ableness, n. State of enduring: continuance;
stdur'amee, n. State of enduring; continuance;
stdur'amee of lasting or duration; a suffering or bearing up
against hardships; sufferance; patience; resignation;
fortitule. fortitude.

fortune. Endure, v. n. [Fr. endurer; L. indure, to make hard or harder—in, and dure, from durus, hard.] To harden or become hard; to continue in the same state without perishing; to last; to continue; to remain; to abide; to suffer without resistance or without yielding; to bear; to submit.

to submit.

-v. a. To support without breaking or yielding to force or pressure; to sustain; to bear; to bear, as hardship; to bear with patience; to bear without opposition or sinking under the pressure; to undergo; to support; to suffer; to tolerate.

Endur'ing, a. Lasting long; permanent.

-n. Act of enduring; a sustaining.

Endur'ingmess, n. Quality of enduring or lasting; lastingness.

lastingne

Engliwing. Adv. On the end; erectly; in an upright position; with the end foremost.

Englymi'lem. (Myth.) A shepherd, son of Æthlius and Calyce. It is stated that he asked Jupiter to grant him to be always young, and to sleep as much as he would; whence came the proverb of Endymion: Diana, or the moon, saw him unclothed as he slept on Mount Latmos, and became enamored of his great beauty, coming down from heaven every night to visit him. This fable arises from Endymion's knowledge of astronomy, and particularly his observation of the moon's motion. The people of Heraclea maintained that Endymion died on Mount Latmos, while the Eleans pretended to show his tomb at Olympia, in Peloponnesus.

(Bot.) A genus of plants, order Hyliacca. E. mulans,

(Bot.) A genus of plants, order Hyliacea. E. mutans the common Blue-bell, flowers blue, rarely white, is the ornament of woods and thickets in Western Europe.

Eme'id. See Exero.

Em'ema, s. [Gr., an injection.] A medicine injected into the rectum; a clyster.

Em'emy, s. [Fr. ennemi; L. inimicus — in, priv., and amicus, a friend. See Amicalle.] One who is unfriendly; one who is hostile to another; a foe; an adversary; an opponent; an antagonist; one who hates or dislikes; a hostile army or force; the great adversary of mankind; the devil.

the devil.

Emerget'ic, Emerget'ical, a. [Fr. Energique; Gr. energetikos, doing, active.] Having or manifesting energy; working; active; operative; operating with force, vigor, and effect; forcible; powerful; efficacious; potent; vigorous; moving.

Emerget'ically, adv. With energy and effect; with

Emerget'leally, adv. With energy and effect; with force and vigor.

Emergico. [It.] (Mus.) With energy and force.—With strong articulation and accentuation, and a marked powerful delivery of the single notes, without losing in distinctness of execution.

Em'ergize, v. n. To act with energy or force; to operate with vigor; to act in producing an effect.

—v. a. To give energy or strength or force to; to give active vigor to.

active vigor to.

active vigor to.

Em'ergy, n. [Fr. énergie; Gr. energeia — en, and ergon,
work, q. v.] Internal or inherent power to operate or
act; the power of operating, whether exerted or not;
power exerted: vigorous operation; vigorous power in
action; effectual operation; strength or force producing
the effect; force; power; vigor; spirit; life; efficiency;
efficacy; potency; strength of expression; force of utterance.

terance. Em'ervate, v. a. [Lat. energo, enervatus—e, ex, and nergus, a nerve, q.v.] To take away the nerges of; to deprive of nerve, vigor, strength, or force; to unnerve; to weaken; to enfeeble; to debilitate.

Em'ervated, p. a. Weakened; enfeebled; deprived of

vigor or force.

Em'erwating, p. a. Depriving of strength, force, or vigor; weakening; enfeebling.

Emervation, n. [Fr. forcration.] Act of enervating or weakening.—State of being weakened.

Em Famille, (ang-fa-mēl'.) [Fr.] In the family-circle; demertically.

domestically.

Enfec'ble, v.a. [En and feeble.] To make feeble; to de-

prive of strength; to reduce the strength or force of; to weaken; to debilitate; to enervate.

Enfec'blement, n. The act of weakening; enervation.

Enfec'blement, n. One who, or that which, enfeebles or

dum, a fee, or feud, on one; same as feudare. See Fier.]
(Law.) To make a gift of any corporal hereditament to another. See FEOFMENT.
Enfloyment, n. See FEOFMENT.
Enfledd, (enffedd,) a town and parish of England, in Middlewer, 10 m. N.E. of London; pop. 16,083. The British covernment has no around the Field.

middlesex, 10 m. N.E. of London; pop. 16,083. The British government has an armory here, and the Enfeld rifle was the arm with which the infantry was, until recently, armed. It has been replaced by the Suider rifle. Em'field, in Connecticut, a post-village and township of Hartford co., on the Connecticut River, about 14 m. N. by E. of Hartford.

Enfleld, in *Hinois*, a post-office of White co.
Enfleld, in *Maine*, a post-township of Penobecot co., on
the Penobecot River, about 90 m. N.E. of the city of

Augusta.

Enfield, in Massachusetts, a post-township of Hampshire co., about 90 m. W. by S. of Boston.

Enfield, in North Carolina, a post-village of Halifax co., about 19 m. S. of Weldon.

Enfield, in New Hampshire, a post-village and township of Grafton county, about 59 miles N.W. of Concord.

co., about 19 m. S. of weldon.
Emfield, in New Hampshire, a post-village and township of Grafton county, about 69 miles N.W. of Concord.
Emfield, in New York, a post-village and township of Tompkius co., about 7 m. W. of Ithaca.
Emfield, in Virpinia, a post-village of King William co., about 36 m. N.E. of Richmond.
Emfield Cemtre, in N.Hampshire, a P.O. of Grafton co.
Emfield Cemtre, in N.Hampshire, a P.O. of Grafton co.
Emfield Cemtre, in N.Hampshire, a P.O. of Grafton co.
Emfield Cemtre, in N.Hampshire, a P.O. of Grafton co.
Emfield, in Nicola 19 m. W. by S. of Albany.
Emfilade', n. [Fr. en, and file, a row, a rank, from fil, a thread, Lat. film.] [Ail.] A line or straight passage, or the situation of a place which may be seen or scoured with shot all the length of the line, or in the direction of a line; a fire of artillery, raking the whole length of a fortification or body of troops.

—r.a. To pierce, socur, or rake with shot, in the direction of a line, or through the whole length of a line.
Emfiled'ed, p. a. (Mil.) Pierced or raked in a line.
Emfiled, a. (Her.) Applied to a sword, when represented in a charge as run through any object.
Emfleurage, (anglyfur'ade.) [Fr.] (Prefumery.) A process for extracting the scents from flowers by absorption. Wooden frames containing glass smeared with purfat are filled with flowers, and allowed to remain for a time, varying from one to six days. The grease gradually absorbs the scent, the flowers being renewed from time to time throughout their period of blooming. The scent is afterwards separated from the grease by soaking it in strong spirits of wine. Sometimes were frames covered with cotton cloths imbued with fine olive-oil are used instead of glass. In this manner the most delicate odors are extracted from flowers, which would otherwise be lost in the process of distillation.
Emforliate, v. a. See Infolder.
Emforce', v. a. [En and force; Fr. enforcir, to strengthen.] To give force or strength to; to invigorate; to confirm; to animate; to instigate; to force; to i

Emfore'lve, a. Serving to enforce.
Emfore'lvely, adv. Without choice; compulsorily.
Emfore'est, v.a. [En, and forest, q.v.] To turn into or lay under forest.
Emfran'chise, v.a. [En, and franchise, q.v.] To

lay under forest.

Emfram'ehise, v. a. [En, and franchise, q.v.] To endow with a franchise; to set free; to illurate from bondage or slavery; to admit to the privileges of a free-man or citizen; to admit to freedom.

Emfram'ehised, p. a. Set free; released from bondage; admitted to the rights and privileges of freemen.

Emfram'ehisement, n. Act of enfranchising; release from slavery or custody; the admission of persons to the freedom of a corporation or state; investiture with the privileges of free citizens.

Emfram'ehiser, n. One who enfranchises or sets at liberty.

liberty

Enfrancehiser, n. One who enfranchises or sets at liberty.

Engadine, (en-ga-deen',) a beautiful valley of Switzerland, in the Grison country, extending along both sides of the upper part of the Inn. Length, 45 m., with an average width of 1½. Pop. 10,000. This valley is subdivided into the Ober and Unter Engadine, and has an elevation of 5,750 feet above the level of the sea.

Engage', r. a. [Fr. engager — en, and gager, from gage, a pledge. See Gage.] To bind by pledge or contract; to pledge; to unite and bind by contract or promise; to enlist; to bind; to attach; to undertake to do (with recip. pron.); to embark in. — To gain; to win; to allure; to attract; to occupy; to employ assiduously.— To attack in contest; to encounter.—v. n. To promise or pledge one's word; to bind one's self; to embark in any business; to take a concern in; to undertake.

—To encounter; to begin to fight; to attack in conflict.

Engaged', p. a. Pledged; promised; enlisted; gained and attached; attracted and fixed; embarked; earnestly employed; zealous.

Engaged Columns, n. pl. (Arch.) Columns attached to walls, by which a portion of them is concealed; they never stand out less than one-half from the wall.

Engagedily, adv. With earnestness; with attachment.

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Engag'edness, s. State of being engaged, or seriously and earnestly occupied; seal; animation.
Engage'mseat, s. [Fr.] Act of engaging, or of pawning, pledging, or making liable for debt; obligation by agreement or contract; compact; contract; promise; adherence to a party or cause; partiality; employment of one's time and attention; avocation; occupation; business

(Mil.) The conflict of armies or fleets; battle; fight;

(Mil.) The conflict of armies or fleets; battle; fight; contest; a general action.

Emgag'er, n. One who engages.

Emgag'ing, p. a. Winning; attractive; tending to draw the attention or the affections; pleasing.

Emgag'ing, p. a. Winning; attractive; tending to draw the attention or the affections.

Emgag'ing, p. a. Winning; attractive; tending to draw the attention or the affections.

Emgag'ing, p. a. Winning; attractive; tending to draw the affections.

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Emgag'ing, p. a. Winning; attractive; tending to draw the affections.

Emgag'ing, p. a. Winning

Lon 122° 20' E.—Also, the most E. cape of Hayti, Lat. 18° 35' N., Lon. 68° 20' W.

Engar'land, v. a. To encircle with a garland; to enweathe.

Engar'rison, v. a. To defend or protect by a garrison.

Engal'ville, in New York, a post-village of Schoharie co., abt. 40 m. W. of Albany.

En'gen, a town of Baden, 22 m. from Constance, where the Austrians were defeated by the French, in 1800.

Engen'der, v. a. [Fr. engender; Lat. ingenero — en, and genero, to beget, from genus, birth, descent, origin. See GRNUS.] To implant; to generate; to procreate; to beget; to breed; to cause to bring forth; to create.

— v. n. To be caused or produced.

Engen'derer, n. One who engenders or begets.

Engenho-de-Matte, (en-then'go,) (the Genius of the Forest,) a village and parish of Brazil, prov. of Minas Geraes, abt. 140 m. N.W. of Rio Janeiro.

Enghien, (an'e-d.) a town of Belgium, 16 m. from Brussels; pop. 4.718. This town of Hainault passed into the possession of the Bourbon family in 1486, and was sold by Henry IV. of France, in 1607, to Charles de Ligne, Count of Arenberg. It gave title to a branch of the Condé division of the Bourbon house, which became extinct with Louis Antoine Henri de Bourbon, duke of Rnghien, who was shot, at Vincennes, by order of Napoleon I., March 21, 1804, under charge of conspiracy.

Engine, n. [Fr. engin, from Lat. ingenium — en, and gigno, genium, to beget, to produce. See Inganice, as a battering-ram. — Any instrument. — That by which any effect is produced; means. — Anything used to effect or manages engines or artificial instrument, composed of different parts, and intended to produce some effect by the help of the mechanical powers. — A military mechine, as a battering-ram. — Any instrument. — That by which any effect is produced; means. — Anything used to effect or manages engines; but now applied in a more extended sense, to all manufacturing and constructive operations in which a knowledge of mechanics is requisite. It is divided into numerous branches, of which two, Military and Civil, wi Sec. II.—Military E., as a science, implies a knowledge of the construction and maintenance of fortifications, and all buildings necessary in military posts; and includes a thorough instruction on every point relative to the attack and defence of places. The science also embraces the surveying of a country for the various operations of war, and consequently an acquaintance with mathematics, and facility in drawing. When, at a siege, the engineer has surveyed a place, he reports to the commander the weakest places, and those in which approaches may be made with most success. He draws the approaches, marks out the trenches, places of arms, batteries, and lodgments; and, in general, directs the workmen in these operations. He should possess a practical and theoretical knowledge of gunnery. In regard to the marine branch of military engineering, it requires, of course, a general acquaintance with the construction of vessels, jettles, moles, and other buildings of that description.—Civil E., as its name imports, does not include the branches above named, which specially belong to the art of war; but rather relates to the construction of roads and great highways, aqueducts and canals, with all the necessary accompaniments, such as locks, lockgates, culverts, and bridges. All such structures as breakwaters and light-houses, which are buildings requiring great strength and solidity in the construction of their masonry and foundations, and the formation of huge masses of earth, thrown up as embankments, to protect countries that are below the level of the sea from inundation, or low meadow-lands from being fooded by rivers that are subject to sudden and rapid to protect countries that are below the level of the sea from inundation, or low meadow-lands from being flooded by rivers that are subject to sudden and rapid increase from heavy rains, come within the province of the civil engineer. He also constructs docks for the reception of shipping, quays, reservoirs, and water-courses for supplying tunns with water brought from a distance, and he accomplishes the drainage of marsh lands and fenny districts, and irrigates dry soil requiring moisture to render it productive, by various artificial means. Railroads, with their deep cuttings, immense embankments, lofty viaducts, dark tunnels, and roadways sometimes carried for miles on arches of brickwork,—their on girder, and other bridges, of enormous strength, and bridges of all kinds that span our rivers, whether of wood, stone, or iron,—are all the work of the civil en-

gineer. The formation of artificial harbors by throwing out piers and jetties; and the clearage of natural harbors from all obstructions, such as sunken rocks and sandbanks; and the construction of the great sewers and drains that run in every direction under our large towns and cities, all come under his care; and, in addition to this, he has to superintend the construction of the shafts and machinery of mines and coal-pits, to insure safety to the miners in their ascent and descent, and to secure proper and thorough ventilation in all parts of the mine. Another great branch of C. E is the manufacture of massive machinery, such as pumps, hydraulic and lever presses, looms, and steam-engines of all descriptions, whether they be locomotives, or for vessels, or for setting machinery in motion. In short, the civil engineer seeks to adapt the mechanical powers, and their appliances, and bring them into such forms and combinations that they may furnish the means of saving the expenditure and waste of animal strength and manual labor, and thereby cause the work to be done at a cheaper rate, and in a more efficient manner. It is only within the last three centuries that the professions of architect, painter, sculptor, and engineer, whether civil or military, have become separate and distinct callings. Those of the civil and military engineer have chiefly been elicited and established by the invention of gunpowder and cannon, which necessitated the employment of peculiar skill, and close study in plantion of gunpowder and cannon, which necessitated the employment of peculiar skill, and close study in planning and constructing the works of defence that surround any place of importance; and the requirements of commerce, which has long since demanded, and still demands, canals, roads, railroads, and motive power beyond the constant control of the winds and waves for round any place of importance; and the requirements of commerce, which has long since demanded, and still demands, canals, roads, railroads, and motive power beyond the constant control of the winds and waves for the conveyance of merchandise by land or sea. Although we may consider Archimedes as the first engineer of whom mention is made in history, in nemorable connection with appliances of the lever and other mechanical powers, yet the early nations of the world, especially the Egyptians, who raised and fixed in their present position the gigantic blocks that form the pyramids, and reared the mighty monoliths known as Pompey's Pillar and Cleopatra's Needles, must have been possessed of engineers of no ordinary mental capacity. The blocks that form the Cyclopean wall of Tirgus and Mycense, the marble columns and the temples of the Greeks, the sewerage and aqueducts of Rome, the underground structures for the drainage of the Assyrian city of Nimrod, the canal of Xerxes, that separated Mount Atlas from the mainland, and the remains of those found in various parts of Egypt, Assyria, and the East, all tell us of the magnificent schemes that the engineers of antiquity designed and carried out, whose names are lost for us. Among the engineers who flourished before the Christian sera, Archimedes, who so skilfully conducted the defence of Syracuse, is the earliest on record, unless we consider Hiram, the clever Tyrian artificer, who aided Solomon in the building of the Temple, as an engineer, as he doubtless was. The writings of Vitruvius prove him to have been employed in the structure of military machines and works of defence, as well as an architect. In the Middle Ages, and even in later periods, we still find the professions we have mentioned above combined in one person; for the eminent Brunelleschi, and Michael Augelo, the sculptor and artist, are mentioned as constructing fortifications, and the illustrious painter Leonardo da Vinci rendering an important service in the capacity of engineer, by the constructio

"The beautiful enginery of Rome." - She

"The beautiful enginery of Rome."—Shenstone.

Engird', v. a. [En, and gird, q. v.] To gird round; to surround; to encircle; to compass.

Engird'ed, or Engirt', p.a. Surrounded; encompassed.

Engird'ed, v. a. To surround as with a girdle; to encircle.

Engirt', v.a. Encompassed; girt; smart.

Engiscope, n. (Gr. eggys, near, and scopea, to see.) A reflecting microscope.

Engiland, the most populous, wealthy, and important portion of the United Kingdom of Great Britain and Ireland, comprises the most southerly, the largest, and the most favored part of the island of Great Britain. It is bounded on the N. by Scotland, S. by the English Channel, E. by the German Ocean, and W. by Wales, the Atlantic Ocean, and the Irish Sea. Its extreme length

N. to S., or in other words, from Berwick-on-Tweed on the Scottish Border, to the Land's End, the extreme point of Cornwall, is 425 m., with a breadth varying between 62 and 250. Coast-line. About 1,200 m., without the indentations into the land; with them, abt. 2,000, m. Area, 50,812 sq. m., or 82,590,397 statute agree. E is divided into 40 counties, as follows:

Bedford, Herks, Buckingham (or Bucks), Cambridge, Chester, Cornwall, Cumberland, Derby, Devon, Borset

Durham,

Durham,
Essex.
Gloucester, Middlesex,
Hampshire (or
Southampton),
Hereford, Morthampton,
Hertford (or
Hertio)
Huntingdon,
Kent,
Tancashire,
Kent,
Lincoln,
Monueut,
Monueut,
Morthampton,
Notta,
Oxford,
Rutiand,
Lavgeg Leloester, Lincoln, Middlesex

Shropshire Somereet Stafford, Buffolk, Burrey,

Persus, Lancashre, Rutland, York.

The last-mentioned, which is the largest county, is divided into the N.E., N.W., and S.W. Ridings, which are subdivided into wapentakes. The other counties are variously subdivided into hundreds, wards, lather, appes, tithings, wapentakes. &c. The principal arms of the sea are, vis.: on the E., the sestuary of the Humber, the Wash, and the sestuary of the Thames; on the S., Southampton Water; and on the W., the Bristol Channel, the sestuaries of the Dee and the Mersey, Morcambe Bay, and the Solway Frith, dividing the N.W. limit of the country from Scotland. Capes. The chief promontories are on the E., Flamborough Head, Spurn Head, the Naze, and the N. Foreland; on the S., Dungeness, Beachy Head, the Bill of Portland, and Start and Lizard Points; on the W., Hartland Point and St. Bees Head. Islands. Holy Island, Lundy, Isle of Man, Sheppey, Walney, the Isle of Wight, and the Scilly Isles. — Gen. Desc. E. combines within itself all that is most desirable in scenery, with all that is most necessary for the subsistence of man. Although its features are



Fig. 941. — A SAXON SOLDIER.

moulded on a comparatively minute scale, they are marked with all the agreeable interchange which constitutes picturesque beauty. In some parta, plains, clothed in the richest verdure, watered by copious streams, and pasturing innumerable cattle, extend as far as the eye can reach; in others, gently rising hills and bending vales, fertile in corn, waving with woods, and interspersed with flowery meadows, offer the most delightful landscapes of rural opulence and beauty. Some tracts, again, furnish prospects of the more romantic and impressive kind: lofty mountains, deep glens, isolated craggy rocks, narrow ravines, and tumbling torrents: nor is there wanting, as a contrast to these, scenes in which every variety is a different charm, the viciusitude of black, berren moors, and wide, uninhabited heaths, and almost trackless moors. Rivers. The most considerable riparian waters of this country are the Thames, Severn, Medway, Trent, Ouse, Tyne, Tees, Wear, Mersey, Dee, Avon, Eden, and Derwent Lakes. The principal inland sheets of water are the lakes of Windermere, Ulleswater, and Derwentwater in the N.E. div. of the country, where innunerable smaller lakes are also found,—the whole forming an almost continuous chain extending from Moreembe Bay to the Scottish border. Moundains. The principal ranges are those generally distinguished as the Northern, the Cambrian, and the Devonian. The first consists of the Pennine range and the Cumbrian group, the former extending from the Cheriot Hills, on the Scottish borders, to the middle of Derbyshire. In this range is Cross Fell, attaining an elevation of nearly 3,000 feet above the level of the sea; and the Peak, in North Derbyshire, to the W. of the Pennine, being separated from it by the valleys of the Eden and the Lune. In it are Bca Fell, the ioftiest mountain range comprises all the Welsh mountains, and will—be spoken of in the article on Wales. The Deromlan range includes the hills of Cornelized by

wall, Devon, and part of Somersetshire. The elevations in these are not nearly so lofty as those in the others. Forests. The chief of the ancient forest tracts remaining in this country are the New Forest in Hampshire, the Forest of Dean in Gloucestershire, and Bowland Forest in Yorkshire. Soil, Ar. Few countries possess a smaller proportion of land absolutely sterile and incapable of culture. The richest parts are, in general, the midland and southern. Towards the N. the soil partakes of the barrenness of the neighboring portion of Scotland. The E. coast is, in many parts, sandy and marshy. A range of moorish and elevated land extends from the borders of Scotland to the very heart of E., forming a natural division between the E. and W. sides of the kingdom. Cornwall is also a rough, hilly tract; and a similar character pervades part of the adjacent counties. Nat. Prod. &c. The agricultural, mineral, and commercial economy of E. will be treated of in our general article Great Britain. Chief Towns. London (the metropolis of the British empire), Liverpool, Manchester, Bristol, wall. Devon, and part of Somersetshire. The elevations

Prod. &c. The agricultural, mineral, and commercial economy of E will be treated of in our general article Great Britain. Chirf Towns. London (the metropolis of the British empire), Liverpool, Manchester, Bristol. Birmingham, Leeds, Newcastle-on-Tyne. Clim. Humid, but healthy. From the insular situation of the kingdom, it is liable to sudden and frequent changes, and to great variations of dryness and moisture. Pop. (1891) 29,002,526. See Great Britain: Wales, &c.

Emgland, (Church of.) See Protestant Episco-Pal Church.

Emgland, (Language and Literature.) Language. This language, the vehicle of spoken and written communication between about 100,000,000 of people, is as heterogeneous in its elements as it is widely extended in its sphere. "Latin, Greek, Hebrew, Celtic, Danish, French, Spanish, Italian, German," says M. Müller, in his "Lectures on the Science of Language,"—"nay. even Hindustani, Malay, and Chinese words, lie mixed together in the English dictionary." It was long a popular, and probably somewhat partial, whim in England, that Angio-Saxon formed at least two-thirds of the spoken and written speech of it. But M. Thommerel has recently carefully gone over the dictionaries of Richardson and Webster, and has established the fact, that Angio-Saxon stands in no greater proportion to the words of merely Latin origin, than the relation that 12,330 holds to 29,354. Yet the English language is essentially and truly a Teutonic or Saxon tongue; for it is not the extent of the vocabulary of a language that gives color to the title of that language—it is to the grammar to which the tongue conforms that we must trace its scientific relationship. Now, whatever there remains of grammar in English—and, indeed, it is very little—obviously bears marks of being forged in a Teutonic workshop; and hence the necessity that there is for classifying it as such in the general philology of the world. In tracing the growth of the English language, it is usual to divide its history into four periods, viz.:

Angio-Saxon ......

amon's Brut (abt. 1200), afforded abundant specimens of this slip-shod style of the Anglo-Saxon, and it is abundantly evident, from an examination of the inflectious and genders of the language, that it was undergoing at that time a thorough breaking up. En is constantly substituted for on in the plurals of verbs; the final e is often discarded; weak preterites occasionally take the form of strong ones, and there is a marked uncertainty in the government of prepositions. There is another curious feature observable in the Anglo-Saxon of this time — that, although its date makes it reach a century or two beyond the conquest of 1006, it nevertheless exhibits but few traces of Norman-French. In that curious old poem which has just been referred to, the Brut, there are not more than fifty French or Latin words in a composition of 32,000 lines! Norman-French might be the language of the court; it certainly was not the language of the people. — The Early English period, again, of the language exhibits important features of consolidation and of final hardening. The English tongue now asserts itself throughout; yet it is still struggling for proper rules. In the first place, it contrived gradually to get rid of all Anglo-Saxon inflections, particularly in the substantives and adjectives; and the vowels a, e, u, in final syllables, are all represented by e, and the final n of the infinitive has already begun to disappear. It constantly prefers to express the relations of an idea by some new word attached to the original one, whereas the old Saxon tongue, like a gennine element of the Teutonic, always expressed such ideas by a modification of this word. In the admirable poem of the Oul and the Nightingale, written probably towards the end of the 13th cent., the French admirable poem of the Preudonic, always expressed such ideas by a modification of this word. In the admirable poem of the Preudonic, always expressed such ideas by a modification of this word. In the saminate of the preudonic and have example of the contract of Norman-Freich. In orth-eastern united of Scotland have always presented a stumbling-block to the ethnologist; for it is unquestionable that the inhabitants of those counties speak a language which, in its grammar at least, is very nearly akin to that of Yorkshire and Norfolk. Yet in the vocabulary of the people, there are a considerable number of words of Norse or Scandinavian origin. The existence, during the 11th cent., for a period of 30 years, of a Norwegian kingdom under the sea-rover Thorfuin in the extreme northeast of the island, might partially account for this Norse element in the speech of the country. But how are we to account for the existence of an Anglo-Saxon grammar north and east of the Forth, or even of the Tayl for it is well enough known that the Norse languages are all widely diverse in their grammar from the Saxon. No satisfactory answer has yet been given to this question: nothing but vague theories indeed have been formed regarding it. The close likeness of the two tongues to the north and south of the island did not last long after the war of independence. So early as Dunbar, the best Scottish poet before Burns, pedantic Latinisms had usurped the place of pure Anglo-Saxon, and in his best poem, the Daunce, the striking person-ifications abound with what were then considered as barbarisms. — In the Modern English period of the language, it was to a great extent perfected as to its grammar, if still deficient as to its purity. Of course, the rules and forms of the grammar had still to be rendered workable and delicate by the use which great practice can alone communicate. It is to be observed, however, that it was much more in the ease and dexterity which the old forms of speech received, that this modern period is distinguished, rather than in any new modifications effected upon the grammar itself. Of course the additions which have been made to the English elictionary since the beginning of the 16th cent. have been immense — a process which still goes on; but the the additions which have been made to the English dictionary since the beginning of the 16th cent. have been immense—a process which still goes on; but the effects of change on the glossary of a tongue are merely secondary. The changes, accordingly, which it has since undergone, are merely changes in style, or in the variety of modes in which different individuals express themselves. The English language is worthy, by its remarkable combination of force, precision, and fulness, of being as it is already the speech of pearly all the markable combination of force, precision, and fulness, of being, as it is already, the speech of nearly all the free nations of the world. If it cannot boast a native purity, it can at least boast of what is better than purity in language—the strength and copiousness, the delicacy and grace, the refinement and tenderness, in which its glossary abounds. If it is Teutonic in its term, as the single 3 in the third person singular of the present indicative assures us, it should be remembered the extent to which it draws on the old classical languages of Europe. guages of Europe.

\*\*Identification\*\*: The English literature is modified in a

highly important manner by the history of the English people. Æras of great literary progress have always been found to succeed those periods of the nation's history characterized by important social changes, and sometimes by national revolutions. The literary annals of England may be conveniently arranged into three periods: 1. That antecedent to the Norman Conquest; 2. That extending from the Norman Conquest to the English Reformation; and 3. from the English Reformation to the present day. These in their order. 1. The time preceding the Conquest has a literature composed, of three distinct languages, and possessing merits of a highly important character. First, there is the Celtic, spoken by the Northern Scots, the Irish, and the Welsh. The Annals of the Four Masters, compiled by Tigernach, records the authentic doings of the Irish people so early as the 5th cent. No other nation of modern Europe can make a similar boast. Then there are the Scottish Ossianic poems, which, if they were genuins, would lead back the reader to the 8d cent. Amoug the Welsh poole, again, their triads are said to extend as far back as the 6th cent., although nothing very authentic can be learned of the exploits of the famous Welsh prince Arthur of the Round Table, or of the enchantments of the renowned magician Merlin. The cultivation of Latin literature in this country succeeded the introduction of Christianity into it. St. Ninian establishing himself at Whithorn, tried to convert Scotland late in the 4th cent; St. Patrick made a similar attempt in Ireland in the 5th cent; and St. Augustine laid the foundation of the Anglo-Catholic church late in the 6th cent. Literary effort soon followed, and we meet as first in his honorable list the names of Alcului, of Erigena, and of Bede. The Gleeman's Song, the Battle of Finnesburgh, and the Tule of Beosulph, are the only stories of an Homeric cast which the Anglo-Saxon people possess. The latter, in particular, resembles closely, in some of its viridly picturesque touches, the old lilad o Hales and Duns Scotus, as Michael Scot and Roger Bacon, show how entirely men were devoted, as they usually are in the infancy of a literature, where external
peace and leisure will permit of it, to philosophy in both
its branches of physical and metaphysical. The listorical writers of the time, among whom we must mention
William of Malmeebury, Geoffrey of Monmouth, Giraldus
Cambrenis, and Matthew Paris, afford an agreeable offset to those subtle speculators. Of course the learned
language of the time was altogether Latin; and it is
worth noting that the wit and fancy of the ecclesiastics
could find as hearty expression in the fine old drinkingsong of Walter Mapes, beginning Min est propositium is
taberna mori, or, as Leigh Hunt elegantly renders it,
I devise to end my days in a tavern drinking—in the
12th cent., as they came to do in the 16th cent., when
Bishop Still improved the immortal bacchanalian song
of Jolly good die and old. Personal satire and invective
were in Mapes's day much in vogue; and the weak
King John and the charter of Runnymede afforded those
disposed to employ those local squibs only too good King John and the charter of Runnymede afforded those disposed to employ those local squibs only too good targets to aim at. The Gesta Romanorum, a singular medley of tales, apologues, and so forth, told often with much humor and pathos, have an interest of their own; and they possess likewise a borrowed grace. They have been instrumental in suggesting some of the noblest themes in our recent literature, and thus have double claims on our affection. The Merchant of Venice and Marmion, to go no further from home, owe much to those old Gesta. These compositions resembled closely

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ENGL

in their structure the French Fabliaux, and have had a much greater influence on our literature. The fine old romances of Havelok the Dane, the Gest of King Horn, Bevis of Hamplon, Guy of Warwick, and last and best of all, those glorious oid legends written mostly in French, but composed by Englishmen, to celebrate the greatness of the downfall of the mythical King Arthur and his knights of the Round Table, no English student of this literature will pass by. It was not long since that we had an admirable poem from Alfred Tennyson on the fragmentary materials of this very period. Meanwhile, the vernacular tongue of England, driven from the monasteries and the universities, was almost solely dependent for its patronage and subsistence on the common people of the land. It had no literature worth mentioning at this period; and it was rapidly merging into the semi-Saxon, as it is called, of which the earliest and best representative is the Brut of Layamon. The 14th and 15th cents, brought a new sera into English history and English literature. Cressy and Poictiers were fought, and John Wycliffe and Geoffrey Chaucer were born. The former deserves our ceaseless regard for his translation of the sacred Scriptures, the first ever effected by one hand (1380), and, except Sir John Maundeville's travels (1356), it is the first specimen of early English prose-writing in our language. The latter deserves our undying esteem for his immortal Canterbury Tales (1390-1400), which, for their fine sportiveness and healthy pathos, their humorous simplicity and genuine tenderness, will be admired while the language endures. It is to be remarked that the Bruce of Barbour, a Scotchman, an epic narrative, written abt. 1375, is in pure English than those poems of Chaucer of which we have just spoken. It resembles closely in its diction the English poem of Piers Plowman. We can hardly do more than name a great many authors who crowd the canvas of the 15th and 16th centuries, when heave just spoken. in their structure the French Fabliaux, and have had a the ianguage endures. It is to be remarked that the Bruco of Barbour, a Scotchman, an epic narrative, written abt. 13:5, is in purer English than those peems of Chaucer of which we have just spoken. It resembles closely in its diction the English poem of Piers Plowman. We can hardly do more than name a great many authors who crowd the canvas of the 15th and 16th centuries, such as John Hydgate, whose London Lackpenny dabout 1430) is still road with interest; Alexander Barclay, author of the Ship of Fools (1509); John Skelton, author of the Ship of Fools (1509); John Skelton, author of the Ship of Fools (1509); John Skelton, author of the Ship of Fools (1509); John Skelton, author of the Ship of Fools (1509); John Skelton, author of the Ship of the Interest of this period are Sir John Fortescue, Chief Justice of the King's Bench under Henry VI.; Wm. Caxton, who holds the honorable place of being the Grave of Cless: Fabian (1512); Hall, an English lawyer and chronicler (1547); and Tyndale, who was burnt for heresy in 1536. The Scotch poetry of the period almost matches in interest and importance that of the south part of the Island. James I., king of Scotland, led the way with his Queen's Quhair; Wyntom, the chronicler (1420); Bind Harry, the author of the once highly popular performance known as Sir Wm. Wallace; itobert Henryson (b. 1508), who wrote a beautiful poem called The Testament of Oreszeit; Gavin Douglas, whose best work, among a considerable number, is, without doubt, his translation of Virgil's Zheid into Scottish verse; and last and greatest of the poets of his country until the time of Burns, stands William Dunbar (b. about 1520), whose Daunce of the Scren Deadly. Sins showed him to have possessed imagination and humor, pathos and tenderness, boldness and vigor, in a very remarkable degree.—3. The period extending from the English Reformation to the present time eclipses in brilliancy and grandeur all the other eras of English Illerature. As the same sequence of events reigns in letters as in social

schools, which owed their origin entirely to the indefatigable labors of the reformer Knox, bade fair to give to Scotland an important place in the history of Great Britain. We now come close to the greatest zera in the history of English literature. In all the essentials of true genlus this age can give way neither to the best days of ancient Greece or Rome, of modern Italy or France. The greatest men the nation has ever produced come trending up at the mention of (Inparion Wilrebath's come trooping up at the mention of Queen Elizabeth's name. There are Shakspeare and Spenser and Sidney; there are Raleigh and Hooker and Jeremy Taylor; there reme are mateign and mooker and seremy haytor; there see Milton and Hobbes and Cudworth, and many others beside, "men, all of them," to adopt the language of Francis Jeffrey, "not merely of great talents and accomplishments, but of vast compass and reach of understanding, and of minds truly creative; not men who perfected art by the delicacy of their taste, or digested knowledge by the justness of their reasonings, but men who made vast and substantial additions to the materials upon which taste and reason must hereafter be employed, and who enlarged, to an incredible and unparalleled extent, both the stores and the resources of the human faculties." Not only was Shakspeare taller by a head than any of his contemporaries, the men who proudly closed around him bulk larger, even to the critical eye, than any other collection of names in the entire roll of our literature. Even the minor dramatists of the time, such as Marlowe and Chapman, Beaumont and Fletcher, Jonson and Drummond, are almost the equals of any poets who have succeeded them. About the are Milton and Hobbes and Cudworth, and many others of any poets who have succeeded them. About the close of this period a number of sweet poets arose, who mostly wrote in a fyrical measure, though some of them were didactic, such as Fletcher and Browne, Drayton and Wither, Quarles and "holy George Herbert." During the period of the Restoration and the Revolution, and wither, quaries and "noly decorge Hercert." During the period of the Restoration and the Revolution, the literature of the stage was exceedingly profligate. The court and the king had imported from France a love of genteel profligacy, which found its most fitting expression in the comedy of intrigue; and Wycherly and Congreve, Vanbrugh and Farquhar, are the dramatic scapegoats of the time. Yet the age was not wholly corrupt, for it could boast of such distinguished theologians as Baxter, Owen, Calamy, Collier, Leighton, South, Tillotson, and Barrow. This was also the time when Milton, who stands in the front rank of poets, lived and aung of Paradise lost and of Paradise regained, writing "something," as he early hoped himself, "which poeterity would not willingly let die." Marvel ridiculed the High Church, and Butler, of "Hudibras" fame, burlesqued Dissent; Walton angled, Locke speculated, Newton discovered, and John Dryden "found the English language of brick, and left it of marble." The literary history of the 18th century, and particularly of the reign of Queen Anne, has been censured severely by some lesqued Dissent; Walton angled, Locke speculated, Newilton discovered, and John Dryden "found the English language of brick, and left it of marble." The literary history of the 18th century, and particularly of the reign of Queen Anne, has been censured severely by some, and praised to excess by others. It was natural that the critics of the period should be inclined to over-estimate the influence of the literature among which they lived; but many writers of the present day have decried it, possibly with a considerable touch of truth, for its polite skepticism, and for its hollow insincerity. It has been glorified by its advocates as the Augustan age of English literature, and decried by its enemies as an age of utilitarianism and satire. The truth is, that both in poetry and in prose the form had come to be observed much more than the matter. Pope, of course, is the poetical chief of this age; and while he, no doubt, indulged much more than was meet in the most polished and most personal satire, he nevertheless, as in his Essay on Man, displays a fine power of lofty contemplation, and a faculty of expression so brilliant, so happy, and so copious, that we look in vain for the match of it in the entire range of English poetry. Addison is unmatched for grace and ease; Swift has no equal in rude, pointed vigor; and the sense of Johnson's ponderous sentences is frequently obscured by their size. If Young, Akenside, Thomson, Gray, Collins, Beattia, and Cowper were animated by a truer sense of their duty in writing poetry than Pope was, the result shows that they accomplished much less than he did. The greatest poet of the contury was Robert Burns. Its novelities were Richardson, Fielding, Smollet, Sterne, and Goldsmith; its historians were Hume, Robertson, and Gibbon; and its philosophers were Butler, Berkeley, Clarke, Shaftesbury, Hume, Paley, and Adam Smith. The greatest poet of the contury was Robert Burns. Its novelities were Richardson, Fielding, Smollet, Sterne, and Goldsmith; its historians were Hume, Robert

Lit. in the Reign of Victoria, with a glance at the past, by Prof. Henry Morley, (Leipzic, 1882). Stedman's Victorian Poets, (13th ed. with sup., London 1887.) Emgleade, in Missouri, a village of Oregon co. Emglewood, in New Jersey, a post-village of Bergen co., abt. 13 m. N.N.E. of Hudson city.

Emglish, in lowa, a twp. of Iowa co.—A twp. of Keckuk co.—A twp. of Lucas co. Emglish, n.pl. [Sax. Englisc, from Engles, Anglis, q.v.] The people of England.

—n. sing. The language of England.

—r. a. To translate into English; to anglicize.

Emglish Cemtre, in Pennsylvania, a post-office of Lycoming co.

Lycoming co.

English Creek, in Iowa, enters the Des Moines

English Creek, in Iowa, enters the Des Moines River from Marion co.

English Har'bor, an excellent harbor on the 8. coast of the island of Antigua, West Indies, Lat. 17° 3′ N., Lon. 61° 46′ W.

English Harbor, an inlet of the Pacific Ocean, on the 8. coast of Costa Rica, Lat. 8° 50′ N., Lon. 83° 55′ W.

English Mann, n. (Geog.) A native of England.

English Neighborhood, in New Jersey, a post-village of Bergen co., abt. 5 m. N. of Hoboken.

English Prairie, in Illinois, a post-village of McHenry co., abt. 50 m. N. W. of Chicago.

English River, in Jowa. formed in Floyd co., by the confuence of the Shell Rock and Lime creeks, and traversing Butler co., enters the Red Cedar River in Black Hawk co.

Black Hawk co.

Black Hawk co.

Join the lows River in Washington co., being formed by the union of the N. and S. forks, one of which rises in Powesheek, and the other in Keokuk co.

A township of Washington co.
Eng'lishry, n. The people of England; as, a general massacre of the Englishry.
English's Creek, in New Jersey, a post-office of Atlantic co.

English's Croem, in New Sersey, a post-value of lantic co.

Englishtown, in New Jersey, a post-village of Monmouth co., at. 5 m. N.W. of Freehold.

Engloom', v. a. To render gloomy.

Englut', v. a. [Fr. engloutir.] To swallow up; to fill; to glut; to pamper. (o.)

Engorge', v. a. [O. Fr. engorger.] To devour; to swallow; to gorge.

—v. n. To devour; to feed with eagerness and voracity.

Engorge'ment, n. The act of engorging.

(Med.) An obstruction occurring in the vessels of a mart riving rise to augmentation of volume.

part, giving rise to augmentation of volume.

Engoulee, (ang-gc-la') [O. Fr. éngouler, to swallow down.] (Her.) An epithet for crosses, saltiers, &c., when their extremities enter the mouths of lions, leopards, &c. Emgraft', v. a. To ingraft; to graft.

Engraft, v. a. To ingraft; to graft.
Engraft'ed, p. a. Planted; ingrafted.
Engraft'ed, p. a. Planted; ingrafted.
Engraft's, v. a. (Her.) To indent with curve lines.
Engrafted, a. Baid of a series of
little half-moons, or semicircles (Fig.
942) supposed to have been made in
it by hall.

it by hall.

Engrail'ment, n. The ring of dots round the edge of a medal.

Engrain', v. n. [En, and grain—q. v.] To dye in grain or in the raw material. To dye deep.

Engrasp', v. a. To seize; to hold fast in the hand; to gripe.

Engrave', v. a. [En, and grave, q. v.] To cut a groove into; to mark by making incisions; to cut, as metals, stones, or other hard substances, with a chisel or graver; to cut, as figures, letters, or devices, on wood, stone, or metal; to picture or represent by incisions; to imprint; to imprint; to imprint; to imprint; to imprint; to indicate the memory.

Engrave'ment, n. Act of engraving; an engraving (R.)

Engrave're, n. One who engraves; a cutter of letters,

to impress deeply; to infix, as in the memory.

Emgrave'ment, n. Act of engraving; an engraving. (R.)

Emgrav'er, n. One who engraves; a cutter of letters, figures, or devices on stone, metal, or wood; a sculptor; a carver.

Emgraving, (en-graiv'ing.) n. [Fr. graver, to engrave.]

(Fine Arts.) The art by which plates of metal or oblocks of wood ure prepared by incision or excision in order to imprint designs of any kind on paper, calico, or similar materials. The term engraving is more strictly confined to work of this nature executed on wood or metal; but there are also many different branches of the art, to which specific names are applied; thus, the process of engraving dies in steel for coins and medals is called "die-sinking" (see Diz-sursing), while engraving on precious stones and shells, which consist of layers of different colors, so that, by cutting away a portion of the upper cost, a dark figure may be produced on a light ground, or vice verse, is termed "cameo-cutting." (See Camo.) This branch of the art is somewhat similar to chasing, by which figures and patterns are produced in bas-relief on weasels of gold or silver. There is a great difference in the method used in preparing blocks of wood and plates of metal to effect impressions on paper. In the former, all the parts that are to appear white in the impression are cut away, and the lines which produce the imprint are left on the face of the block (see WOOD-ENGRAVING); but, on the contrary, in engraving on steel, copper, or zinc, the lines which are intended to produce the impression are hollowed out with a graving-tool. The Egyptians practised the art of ongraving in bas-relief and intaglio on stone and metal at a very early age, and the Jews and Greeks probably derived their knowledge of the art from them. Indeed, all the nations of the East have practised engraving of various kinds from a



very early period of their history, although none of them ever discovered the practicability of taking impressions from incised plates, or wooden figures in relief. It was about 500 s. c. that a Greek named Aristagoras is said to have produced a map of all the portions of the world that were known to the ancients at that period, graven on a plate of brass. The incised lines were probably filled in with a colored composition, so that the whole presented an appearance somewhat similar to the midlle-work of the Middle Ages, or the second kind of the early encaustic paintings. (See Excavstro Paintings on plates of metal for the purpose of ornamentation, was followed without the slightest variation in the manner of execution from the earliest times until the manner of execution from the earliest times until the discovery of the art of printing, and the mode of taking impressions from engraved plates. The art of obtaining an imprint from wooden blocks and types is ascribed to Laurence Koster, of Haarlem, who printed a book of Laurènce Koster, of Haarlem, who printed a book of rude wood-engravings on Scripture subjects, with texts of Scripture at the foot of each print, entitled Speculum Humanac Sulvationia, about the year 1438; but the merit of the earliest discovery of printing from metal plates is assigned to Masso Finneguerra, of Florence, who took an impression on paper from a large silver plate known as the "Pax," which he was engraving in niello about 12 years after the discovery of Koster, who was then printing from movable types cut in metal. After this, the progress made by the Germans and Italians in engraving on wood and metal was rapid, and before the close of the 15th century, books were produced copiously illustrated with maps and engravings imprinted from illustrated with maps and engravings imprinted from metal plates. Prior to the time of Albert Dürer, en-graving had been effected by means of the graving-tool alone; but this great artist introduced the method of alone; but this great artist introduced the method of engraving known as etching, by which the design is bitten in, as it is technically called, by the corrosive action of a strong acid on the surface of the plate, after the design has been traced with a needle on the etchingground, with which the plate has been previously covered. It should, however, be stated that the discovery of the art of etching by means of acid isascribed by some to Parmegiano, who lived at the same time as Albert Dürer. The style of engraving called "mezzotinto" was introduced by De Siegen about 1640; considerable improvements were subsequently effected in this branch of the art by Prince Rupert. Copper was the material used for all engravings, whether of maps or landscapes, in line, aquatinta, stipple, or on soft ground, until about the year 1815, when soft steel plates were first used by Messers. Perkins and Heath, of Philadelphia, instead of copper, which were afterwards hardened when ars used by Messra. Perkins and Heath, of Philadelphia, instead of copper, which were afterwards hardened when the process of engraving had been effected. The tools used in engraving are gravers or burins of all kinds and forms, made of case-hardened steel, etching-needles, scrapers for removing the burr thrown up by the graver scrapers for removing the burr thrown up by the graver or dry point, and burnishers to remove scratches from the plate, and to give a tone and finish to the engraving. The plate is prepared for the reception of the design by covering it with a coating of etching-ground, composed of a mixture of wax, resin, and gum-mastic. This is smeared over the plate after it has been heated, care being taken to render the surface of the ground uniform. It is then blackened by holding it over the smoke of a candle; and as soon as this is done the plate is allowed to cool. The outline of the drawing or man is allowed to cool. The outline of the drawing or map to be engraved, which has been carefully traced in pen-cil on paper, is next transferred to the ground by prescil on paper, is next transferred to the ground by pressure, or by rubbing it with a burnisher, and the design
thus obtained is traced through the ground with a
needle. A rim is then raised round the edge of the plate
with what is called "bunking-wax," and a solution of
nitric acid and water is poured into the hollow thus
formed. When this has remained on the plate a sufficient time to bite in the outline, or the lighter parts of
the engraving if it be a landscape or figures, the acid is
poured off, and the parts which are dark enough are
overed with a kind of varnish called "stopping-ground,"
which resists the corrosion of the acid, and prevents if
from acting on the plate in the parts thus covered. The
plate is then again subjected to the action of the acid,
and the process of anolyting the stopping-ground to those plate is then again subjected to the action of the acid, and the process of applying the stopping-ground to those parts which are sufficiently dark, and the acid to those which are not dark enough, is continued until all the requisite gradations of light and shade have been obtained. The plate is afterwards finished with the graver. In line-engravings, the greater part of the work is done by the burin, a skilful engraver being able to produce a vivid representation by a judicious combination of lines and dots. See also Exgraving in Section II.

Engraces, v. a. [En, and Fr. prossir, to enlarge, to make greater or thicker; from gros, big. See Gross.] To sai, in the gross; to take the whole of; to swallow up; to absorb: to occupy; to engage; to buy up in large

to absorb; to occupy; to engage; to buy up in large quantities, in order to make a demand, and sell again at

higher price; to forestall.

a nigner price; to forestall.

To copy in a large hand; to write a fair, correct copy, in large or distinct legible characters.

To take or assume in undue quantities or degrees.

Engressed', p. a. Seized in the gross; taken in the whole; absorbed; purchased in large quantities for sale.

Written in large fair characters.

Engross'er, s. One who engrosses.
Engross'ing, s. Act of engrossing; the buying up of large quantities of a commodity in order to raise the price.—The copying of a writing in fair and legible

Engreen meent, n. Act of engreeing; act of taking the whole; the appropriation of things in the gross or in exorbitant quantities; exorbitant acquisition.

—A copy of a written instrument in a large fair hand.

Enhance'ment, n. Act of enhancing; rise; increase; augmentation; aggravation.

Enhanc'er, n. One who, or that which, enhances, or raises the price of a thing.

Enhar'bor, v. a. To dwell in; to inhabit.

Enhar'bor, v. a. [Fr. enhardir.] To make hard; to harden.—To embolden.

Enharmon'le, Enharmon'ical, a. [Fr. enharmonique; Gr. enarmonicos—en, and harmonia. See Harmon'. (Mus.) Noting a scale in music that proceeds by very small intervals. small interval

Enharmon'ically, adv. In an enharmonical n

Enheart'en, v. a. To encourage; to embolden; to ani-

mate. Emig'mm, n. [Fr. énigme; Lat. anigma; Gr. ainigma, from ainissomai, to speak darkly, from ainos, a tale, a story.] A proposition put in obscure or ambiguous terms to puzzle or exercise the ingenuity in discovering its meaning. In the present day, the E. scrves merely to beguile a leisure hour; but formerly it was considered a matter of such importance that the Eastern monarchs used to send embassies for the solution of enigmas. The used to send embasics for the solution of enigmas. The E. which Samson proposed to the Philistines, and the still more famous riddle of the SPHINX (q. v.), are well known. About the 17th century the E., which had been for centuries neglected as a species of literary display, again came into favor; and in France particularly it was cultivated with so much zeal, that several grand treatises were dedicated to its history and characteristics. -A dark saying, in which some known thing is concealed under observe language: an observe question a riddle.

—A dark saying, in which some known thing is concealed under obscure language; an obscure question; a riddle.

Enigmat'ie, or Enumat'ical. a. [Fr. énigmatique, from L. Lat. anigmaticus.] Relating to or containing an enigma or a riddle; obscure; darkly expressed; ambiguous; obscurely conceived or apprehended.

Enigmatically, adv. In an obscure manuer.

Enigmatist, n. [Gr. ainigmatists.] A maker or dealer in enigmas and riddles.

Enigmatise, v. n. To utter or form enigmas; to deal in riddles.

Enigmatog'raphy, or Enignatol'ogy, n. The art of

making or solving enigmas or riddles.

Enjail, v.a. To put into a jall; to imprison.

Enjour, v.a. [Fr. enjoindre; Lat. injungo—in, and jungo, to join.] To join or attach to; to connect with: to impose: to lay upon; to order or direct with urgency to admonish or instruct with authority; to con

to admonish or instruct with authority; to command; to prescribe.

Emjoin'er, n. One who enjoins.

Emjoy', v. a. [En, and Fr. jouir, to enjoy, to possess, from Lat. gaudea, to rejoice or be glad. See Joy.] To have or feel gladness, joy, pleasure, or delight in; to feel or perceive with pleasure; to take pleasure or satisfaction in the possession or experience of; to take pleasure or delight in the possession of; to have, possess, and use with satisfaction, or as a good or desirable thing.

—v.n. To feel enjoyment; to take pleasure. (a.)

Emjoy'able, a. That may be enjoyed.

Emjoy'memt, n. [Fr. enjowement.] State of enjoying anything, or of pleasurable sensation; pleasure; gratification; satisfaction in the possession of what is good or desirable; fruition; happiness.

Emker'mel, v. a. To form into kernels.

Emkhui'sem, a fortified town and scaport of the Netherlands, prov. N. Holland, on the W. shore of the Zuider Zee, 30 m. N.E. of Amsterdam; pop. 6,213.

Emkin'dle, v. a. [En, and kindle, q. v.] To kindle; to set on fire; to inflame; to excite; to rouse into action.

Emlace', v. a. To fasten with lace; to lace; to inlace.

tion.

Enlace', v. a. To fasten with lace; to lace; to inlace.

Enlace'ment, n. The act of unlacing.

Enlard', v. a. To gresse; to baste.

Enlarge', v. a. [Fr. daryir. See Large.] To make large or larger; to make greater in quantity or dimensions; to extend in limits, breadth, or size; to expand; to dilate; to increase; to magnify; to sugment; to extend; to expatiate; to set at large; to set free or give freedom to freedom to.

tend; to explainte; to set at large; to set free or give freedom to.

—v. n. To grow large or larger; to extend; to dilate; to expand; to diffuse; to expaniate; to exaggerate.

Enlarged', p. a. Increased in bulk; extended in dimensions; expanded; dilated; augmented; released from confinement or straits.

Enlargeding, adv. In an enlarged manner.

Emlargedmeent, n. Act of enlarging; state of being enlarged; dilatation; expansion; extension; augmentation; increase; release from confinement; liberation; copious discourse; diffusiveness; an expatiating.

Emlarg'er, n. He who, or that which, enlarges.

Emlay', v. a. See INLAY.

Emlight'ens, v. a. [A. S. enliktan, enliktan—en, or on, and liktan, to light, q. v.] To make light or clear; to shed light on; to supply with light; to illuminate; to make clear or bright; to enable to see more clearly; to enable to see m give clearer views or perceptions to; to instruct; to enable to see or comprehend truth; to illuminate with able to see or condivine knowledge.

Enlight'ened, p. a. Rendered light; illuminated; instructed; informed; furnished with clear views.
Enlight'ener, n. One who enlightens or illuminates.
Enlight'enmer, n. Making light; illuminating; giving light to; instructing.
Enlight'enment, n. Act of enlightening; state of being enlightened or instructed.
Enlimn', v. a. [Fr. enlumnir.] To illuminate or adorn with ornamented letters or with pictures, as a book.
Enlish', v. a. To chain to; to link.
Enlish', v. a. To, and list, q. v.] To enter on a list; to engage in public service, by entering the name of in a register; to unite firmly to a cause; to employ in advancing some object.

a register; to unite it may to a cause, to employ in ac-vancing some object.

—v. s. To engage voluntarily in public service by sub-scribing articles or enrolling one's name; to enter heartily into a cause, as one devoted to its interests.

Enlist'ing, Act of entering voluntarily into military service; act of engaging men to enter into military accretion.

Enlist'ment, n. Act of enlisting; voluntary enga

ment; a. Act of enlisting; voluntary engagement to serve as a soldier or sailor; voluntary enrolment; the writing by which a soldier is bound.

Emily'em, v.a. [D., and Sax. liban, to live, q.v.] To give life to; to make alive; to quicken; to animate; to give vivacity, spirit, or sprightliness to; to make vigorous or active; to exhibitante; to cheer; to inspirit; to sladden; to invigorate. ous or active; to exhibitante; to cheer; to inspirit; to gladden; to invigorate.

Enlivener, n. He or that which enlivens or animates.

Enliv'ening, p. a. Giving life, spirit, or animation; inspiring; invigorating; making vivacious, sprightly, or cheerful.

cheerful.

Emmanché, a. (Her.) Applied to lines of about half
the breadth of the chief, drawn from the centre of the
upper edge of the chief to the sides.

Em masse, (ang-mat'.) [Fr.] In a body; in the mass.
Emmew, v.a. See Emmew.
Em'maity, n. [Fr. inimitié; Lat. inimicitia, from inimicus. See Emmew.] Quality of being an enemy; the
opposite of friendship; unfriendly dispositions; hostility;
animosity; hatred; ill-will; malignity; malevolence; a
state of opposition.

animosity; hatred; ill-will; malignity; malevolence; a state of opposition.

Enimoseed, (m-möst',) a. Covered with moss.

Enimove', v. a. See Enivors.

Enimoseontahe'dral, a. [Gr. ennenkonta, ninety, and edra, a base.] (Min.) That has ninety aides.

Enimoseontahe'drom, n. A solid which has ninety aides.

Em'meagen, n. [Gr. ennea, nine, and gonia, angle.] A plane rectilinear figure of nine sides and angles; a non-

agon.

agon.
Enneag onal, a. Having nine sides and angles.
Enneag ynous, a. Having the form of an enneagon.
Enneahe dral, a. Having nine sides.
Enneahe dral, or Ennea

Enneam'dria, n. (Bot.) The 9th class in the Linnscan system. The flowers are hermsphrodites, with nine

system. Ennean'drian, or Enneandrous, a. (Bot.) Having

nine stamen

nine stamens.

Emmeaspet alous, a. [Gr. ennea, and petalon, a leaf.]

(Bot.) Having nine petals.

Emmeaspermous, a. [Gr. ennea, and sperma, a seed.]

(Bot.) Applied to a fruit which has nine seeds.

En'memoser, Joseph, a medical and philosophical writer, E. in Hintersee, Tyrol, 1787. He attended the gymnasiums in Meran and in Trient, and in 1806 the University at Innsbruck. At the breaking out of the war in 1809, he followed Andreas Hofer as his private secretary, and at the closing thereof he went to finish his studies at Erlangen and to Vienna. For want of means he gave up his studies and became travelling his studies at Erlangen and to Vienna. For want of means he gave up his studies and became travelling agent for a merchant in Altona for a time, until a countryman of his, whom he met in Berlin, furnished him the necessary funds to renew his studies again. During the French war of 1812 against Russia, he was with other Tyroless sent to England to procure assistance for the Tyroless sent to England to procure assistance for the Tyroless saint Eussia, he started over Sweden to Prussia, and on the way was shipwrecked on the Baltic, and mirasulously rescued, after 14 days suffering, by some pilots. On the call for troops by King Frederick William III., he joined the Lützow volunteers, and comanded a company of Tyroless rifemen during the cammanded a company of Tyroless rifemen during the cam-

manded a company of Tyrolese rifemen during the campaign of 1812-14. He was particularly mentioned for bravery at Lauenburg, at Möllen, and at Ratzeburg against the corps of Marshal Davoust. During the attack at Jülichs, in March, 1814, he carned the Iron Cross at the head of his company. On the delawider of at the head of his company. On the declaration of peace at Paris, he went to Berlin to finish his studies, and at the need of his company. On the occuration of peace at Paris, he went to Berlin to finish his studies, and graduated there 1816 as Doctor of Medicine. He settled there to practise, and travelled to England, Holland, and the different German baths. Under the tuition of Prof. Wolfart he devoted himself to the study of electromagnetic therapeutics. In 1819 he was elected Prof of Medicine at the University of Bonn, where he lectured on Anthropology, Psychical Medicine and Pathelogy. From a feeling of nostalgia he resigned his professorship in 1837, and settled in Innsbruck to practise; from which place he removed to Munich in 1841, where he became renowmed as an electro-magnetic physician. He D. Sept. 19, 1854, in Ergern on Lake Tegern, whither he had gone for the benefit of his health. His principal work is: Der Magnetismus in seiner geschichlichen Entwicklung. Of his other works are to be named: Histor. psychol. Untersuchungen über den Ursprung und das Wesen der menschlichen Seile; Anthropol. Ansichlen sur bessern Kennfniss der Menschen; Der Magnetitzed by

netismus im Verhältniss sur Natur und Religion; An-leitung zur Mesmer'schen Prazis. Em'min, the chief town of the county of Clare, Ireland,

on the river Fergus, 20 m. from Limerick. It is of considerable size, but irregularly bullt, and has a courthouse, juli, barracks, town-hall, college, hospital, and two convents. Pop. 8,000.

two convents. Pop. 8,000.

Em'niscor'thy, a market-town and borough of co.
Wexford, Leinster. It is memorable as the scene of many terrible outrages during the rebellion of 1798.

Pop. about 7,000.

Emnisk il Tem, the chief town of the co. of Fermanagh,

Emmisk il Tiem, the chief town of the co. of Fermanagh, Ireland, on an island in Lough Erne, 34 m. from Sligo. Its principal buildings are a court-house, town-hall, barracks, linen-hall, infirmary, and the royal school of Polters, founded by Charles I., and one of the best endowed in the kingdom. Manuf. Leather, cutlery, and sewed muslins. There is also a considerable trade in corn, timber, coals, and slate. Pop. 0,000.—This place gives the title of earl, in the peerage of Ireland, to the family of Cole. In 1596 it made an obstinate defence against Ones. Elizabeth's army and was negrossible be.

of Cole. In 1980 it made an obstinate detence against Queen Rilizabeth's army, and was unsuccessfully besieged by James II.'s troops in 1689.

Emmis Point, in Missouri, a village of Jasper co., about 180 m. S.W. of Jefferson City.

Emmistrehul, (emmistraw), a small island of Ireland, off the coast of co. Donegal, Uister, about 7 m. E.N.E. of Malin-Hard. of Malin-Head.

or main-Head.

Emnisty'mon, a town of Ireland, co. Clare, Munster, on a river of the same name, near Liscanor Bay, and abt. 14 m. W.N.W. of Ennis; pop. about 2,000.

En'niswille, a village of Lower Canada, co. of Lanark, about 9 m. 8. of Carleton Place.

En'misville, a village of lower Canada, co. of Lanark, about 9 m. 8. of Carleton Place,

Emnisville, in Pinnsylvania, a post-village of Huntingdon co., about 80 m. W.N.W. of Harrisburg.

En'mius, Quintus, a Roman poet, who wrote in heroic verse the annals of the Roman republic, and displayed much knowledge of the world in some dramatical and satirical compositions. D. of the gout, contracted by his frequent intoxication, 169 s. c.; s. at Rudien, now Ruge, in Calabria, 239 s. c. — Sciplo, on his deathbed, ordered his body to be buried by the side of this poetical friend. Conscious of his merit as the first epic poet of Rome, Ennius bestowed on himself the appellation of the Homer of Latium. Of all his writinga nothing now remains but fragments happily collected from the quotations of ancient authors.

Enne'ble, v. a. [Fr. ennoblir—en, and noble, noble—q. n.] To make noble; to raise to nobility; to elevate in degree, qualities, or excellence; to raise; to dignify; to exalt; to elevate; to aggrandize.

Enne'bling, p. a. Advancing to the rank of a nobleman; exalting; dignifying.

Enne'blement, n. The act of ennobling.— Exaltation; elevation; dignify.

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Ennes'blement, n. The act of ennobling.— Exaltation; elevation; dignify.

Ennes'blement, n. The act of ennobling.— Exaltation; elevation; dignify.

Ennes' a river of Austria, rising at the N.E. base of a branch of the Noric Alps, in the crownland of Salzburg, 12 m. S. of Radstadt. It joins the Danube II m. below the town of Linx, after a course of about 120 m.

Ennual, (ong-nee'.) n. [Fr.; probably from Gr. ania, grief, sorrow, distress, trouble.] Dulness of spirit; languor, or unessiness, connected with a feeling of disgust; weariness; heaviness; lassitude; melancholy.

Enoch, (s'nok.) the name of two different individuals in Scripture.— 1. The eddest son of Cain, who built a city which was called after his name.— 2. The son of Jared,

Scripture.—1. The eldest son of Cain, who built a city which was called after his name.—2. The son of Jared, and father of Methuselah. A peculiarly mysterious interest attaches to him on account of the supernatural terest attaches to him on account of the supernatural manner in which his earthly career terminated. We are told by the writer of Genesis, that E. "walked with God 300 years... and he was not; for God took him." What the statement "he was not "aignified to the later Jews, is explained by the writer of the Epistle to the Hebrews: "Enoch was translated that he should not see death." E and Elijah are the only human beings on record who did not require to discharge the debt which mortals owe to nature. It may naturally be supposed that E was a character on whom the extravagant fancy of the later Jews would fasten with unusual pleasure. As they came more and more into contact with Grecian As they came more and more into contact with Grecian and other culture, they felt the necessity of linking on the arts and sciences of Gentile nations their own history, if they would continue to preserve that feeling of supremacy which was so dear to their pride as the chosen people. Hence, E. appears as the inventor of writing, arithmetic, astronomy, &c., and is affirmed to have filled 300 books with the revelations which he re-ceived, the number 300 being obviously suggested by the number of years during which he is said to have walked with God

with God.

E. Book of. (Theol.) One of the apocryphal books of the Old Testament, and believed by some to be cited by St. Jude when he says, "Enoch, the seventh from Adam, prophesied, saying." &c. It is generally supposed, however, to have been written after the establishment of Christianity, from the frequent allusions that are made in it to passages of the New Testament; and it is probable that the author took occasion, from the works of St. Inde. to represent the forcers. As for and it is probable that the author took occasion, from the words of St. Jude, to perpetrate the forgery. As for St. Jude himself, it is probable that he cites, not from any book of Enoch then existing, but from general tradition. The book was common in the early church, but was not generally received as canonical, and appears to have been lost about the 8th century. Bruce, howto have been lost about the oth century. Bruce, however, when in Abyssinia, was fortunate enough to obtain three complete MS. copies of this work. An English translation was published in 1826, by Archbishop Lawrence, and the Ethiopic version in 1838. Several German editions have appeared. The book is chiefly

taken up with a relation of the prophetic visions of Enoch regarding the fall, heaven, hell, nature, astronomy, the future of the Jewish people, &c.; the whole being characterised by such absurdities as to render it unworthy of any credit.

Emegaster, (energister,) v.a. [Fr. energister.] To Emegaster, (energister), v.a. [Fr. energister.] To make rich, as a post-township of Noble co., about 100 m. E. by S. of Columbus.

Emedastion, m. [Lat. evodatio, from enodo, enodatus e.e., ex, and nodo, from nodus, a knot. See Node.] Act of clearing of knots, or of untying; solution of a dimension, and the solution of a dimension, the place where John baptized, was near Salem, on the west side of the Jordan, (John i. 28: iii. 26.) It is supposed to have been eight or ten miles south of Bett-shean, and near the Jordan.

Beth-shean, and near the Jordan

E'mon, in Rlineis, a village of Bureau co., about 7 m N.W. of Princeton.

Emon, in Ohio, a post-village of Clark co., about 7 m S.W. of Springfield. Enon Grove, in Georgia, a post-village of Heard co. about 9 m. N.K. of Franklin.

about 9 m. N.E. of Franklin.

Emon Valley, in Penssylvania, a P. O. of Lawrence co.

Emor'mity, n. [Fr. enormité; Lat. enormitas, from
enormits. See Enormous.] That which is out of rule,
order, regularity, or proportion; any wrong, irregular,
victous, or sinful act; depravity; wickedness; atrocious
crime; flagitious villany; atrociousness; excessive deerreg of crime or suit.

crime; flagitious villany; atrociousness; excessive de-gree of crime or guilt.

SHOP "MOUIS, a. [Lat. enormis—e, ex, and norma, a rule; Fr. énorme. Bee Normal.] Out of rule; going be-yond the usual measure or rule; irregular; inordinate; great beyond the common measure; excessive; immod-erate; exceeding in bulk or height the common meas-ure; huge; vast; prodigious; outrageous; heinous; flagitious; extremely wicked.

flagitious; extremely wicked.

Emor'mously, adv. Excessively; beyond measure.

Emor'mousness, n. Immensity; vastness.

Emor'thotrope, n. [Gr. en, in, erthor, upright, and hope, to turn.] A card or toy by which confused objects are transformed into various figures or pic-

beings, the son of Seth, and the father of Cainan, was born in the year of the world 235. Moses says, "That then men began to call on the name of the Lord," that born in the year or the world 250. Moses say, "That is, that Enos was the first who practised any external is, that Enos was the first who practised any external form of worship; others believe that the passage implies that this was the commencement of idolatry, and that men now began to profane the name of the Lord. It is undoubted that Enos was a pious man, and an observer of social rites and religious ceremonies; and in contradistinction to the scoffers of Cain and his descendants, the patriarch and his family assumed the name of the servants or some of God, which phrase explains the contradistinguishing term of the sons of men, and the passage, "And the sons of God, seeing the daughters of men that they were fair, took them wives of all which they chose." Enos died at the age of 905, a.m. 1140. Enos, and the seat of a limited trade, the harbor admitting only small vessels from its being choked up with sand. —The Guif of Enos lies to the north of the town, and is 14 miles long by 5 broad.

Enosburgh, in Vermont, a post-village and township of Franklin co., on the Missisque River, about 50 m. N.N.W. of Montpelier.

Emosburgh, in Vermont, a post-village and township of Franklin co., on the Missisque River, about 50 m. N.N.W. of Montpeller.

Enosburgh Falls, in Vermont, a post-village of Franklin co., about 58 m. N. of Montpeller.

Emough, (e-nuf.) a. [A. S. genag, genoh; Swed. nog; Ger. genug.] That satisfies desire or gives content; that may answer the purpose; that is adequate to the wants; — generally after the noun to which it attaches; as, "when thou hast gold enough." — Dryden.

—n. A sufficiency; that quantity of anything which satisfies the desires or wants; that which is adequate to the needs; that which is equal to the powers, abilities, or faculties; as, enough of money, enough of work.

—ade. Emiclantly; in a quantity or degree that satisfies or is equal to the desires or wants. — Fully; quiet; denoting a slight augmentation of the positive degree.—
Such a quantity or degree as commands acquiescence

Such a quantity or degree as commands acquiescence rather than full satisfaction.—An exclamation denoting sufficiently; used as a contracted form of it is

Enounce', v. a. [Lat. enunciare.] To declare; to an nounce; to assert authoritatively. (R.) — To articulate

nounce; to assert authoritatively. (a.)—To articulate; to make ulterance. (a.)

Enounce'ment, n. Act of enouncing.

Empleree, v. a. To pierce; to transfix; as, "I am too sure experienced with his shaft."—Shafts.

Enquire, (en-kwir',) v. a. and n. The old form of Inquire, q. v.

Enquirer, n. See Inquire.

Enquirer, n. See Inquire.

Enquiry, n. See Inquiry.

Enrage, v.a. [Fr. enrager—en and rage.] To excite rage in; to provoke to fury or madness; to irritate ex-

rige in; to provoke to tury or manness; to irritate extremely; to make furious; to exasperate; to incense; to provoke; to incite; to inflame.

Emrank', v. a. To place orderly in rank; as, " no leisure had he to enrank his men." — Shaks.

Emrapt'ure, v. a. [En and rapture. See RAPTUR.] To carry away or transport with pleasure; to delight beyond sure.

measure.

Barawish, v.a. [En and ravish.] To bear or carry away the senses with delight; to throw into ecstary; to transport with delight; to enrapture; to fascinate.

Enrawishingly, adv. In a manner to fill with rap-

-To fertilize; to make productive of the incident enriches land.

Enriche'er, n. He who, or that which, enriches.

Enrich'ment, n. Act of enriching; augmentation of wealth; amplification; improvement; fertilization: addition of decoration or ornament.

Enridge, (m-nj',) v.a. To form into longitudinal protuberances or ridges; as, "the enridg'd sea." - Shaks.

Enring', v.a. To bind round, as with a ring; to encire. (Used chiefly poetically.)

"Ity surings the barky fingers of the elm." - Shaks.

Emriqueta, or Henriquita, in California, a post-village of Santa Clara co., on Guadalupe Creek, about 5 m. from New Almaden. There is a rich mine of quickallver here.

Enrobe', v. a. To dress; to clothe; to invest with a habit or with apparel.

Enrock'meent, n. A quantity of loose stones, rubble, &c., sunk into water as a base on which to erect a brake-

water, pier, &c.
Em-ro'gel. (&rip.) A name which means foot-fountain,
and is construed by the Targum into "Fuller's fountain," because the fullers trod the clothes there with tain," because the fullers trod the cottness there with their feet. It was near Jerusalem, on the boundary-line between the tribes of Judah and Benjamin. It has been usually supposed the same as the fountain of Siloam. But Dr. Robinson is now inclined to find it in what is called by Christians the Well of Nehemiah, but by the



Fig. 943. — WELL OF NEREMIAH.

Pig. 943. — WELL OF NERBEILE.

natives the Well of Job. There are only three sources, or rather receptacles of water, now accessible at Jerusalem, and this is one of them. This well is situated in what is now the prettiest and most fertile spot around Jerusalem. It is 125 feet deep, is walled up with large squared stones, which on one aide rise and form an arch, and is apparently of great antiquity.

Emroll', v. a. [Fr. enroller — en, and rôle, a roll or register; to insert, as a name, or enter in a list or catalogue; to record; to insert in records; to leave in writing; as, to be enrolled a member of a club or society.

of a club or society.
To involve; to inwrap; as, "enrolled in smoke." Spenser. Enroll'er, n. The person who enrolls or records in a

register.
Enrol'ment, n. Act of enrolling. anything is recorded; a register; a written record.

Enroof, v.a. To fix by the root; to fasten firmly; to implant deeply.

mpunn deeply.

Ensanguine, (en-sang'gwin,) v. a. [En, and Lat. sanguis, blood.] To smear with blood; to stain or smirch with gore.

En'sate, a. (Bot) Bearing sword-shaped leaves; ensi-

Enscale', v. a. To invest with scales; to give the form

of scales to

of scales to.

Enschedule, (en-skéd'yul.) v.a. [En and schedule, q.v.] To enter in a schedule; as, to enschedule accounts.

Ensconce, (en-skons',) v.a. [En and sconce. See Sconce.]

To cover or shelter, as with a sconce or fort; to protect; To cover or shelte to secure or hide.

To secure one's self in a fastness or fortification; to take shelter behind something.
"I will enscence me behind the arras." — Shake.

"I will encoure me behind the arras." — Shake.

Emseal, v. a. [En, and scal, q. v.] To impress with a scal; to affix a scal to.

Emseal, v. a. To sow up; to inclose by a seam.

Emseal, v. a. To close the eves of by sewing the eyelide together; as, an ensected hawk.

Emsemble, (ensant,) a. (Law.) See Enceint.

Emsemble, (ensant,) a. (Fr.] All the parts of a person or thing taken as a whole, or collectively; as, the ensemble of a state pageant.

—adv. Simultaneously; with one accord; at once.

Emsema'da de Emergaya', a village and bay in

the Argentine Republic, in the setuary of the Plata River, abt. 30 m. S.E. of Buenos Ayres. Emshwime', v. a. [En, and shrine, q. v.] To enclose in a shrine or chest;—bence, to cherish; to guard and preserve with attention and affection; to hold as a thing sacred; as, to enshrine a relic, to enshrine a person in one'

as to enthrine a relic, to enthrine a person in one's memory.

Enshroud', v. a. [En and throad.] To cover with a shroud; to clothe, as with a shroud.

Ensit'oreum, a. [Fr. ensiger.] Bearing a sword.

En'siforum, a. [Lat. ensis, a sword, and forma, form.]

Having the form of a sword; as, an ensigorum leaf.

En'sigm, n. [Fr. enseigne; Lat. insigne—in, and signess, a mark.] A distinguishing sign; a mark or hotely and the signess of the sign give notice.

(Mil.) In the English army, the lowest commissioned

officer, who carries the flag or colors in a company of infantry. He is a subordinate to the lieutenants. En'signey, Em'signship, n. The rank of an ensign.

Enslave', v. a. [En and slave.] To reduce to slavery or bondage; to deprive of liberty, and subject to the will of a master; to reduce to servitude or subjection, as to habits or passions.

Enslave'meent, n. State of being enslaved.

Enslave'meent, n. Act of enslaving; state of being enslaved; slavery; bondage; servitude.

Enslav'er, n. One who enslaves.

Enslen'ia, n. [In memory of Mr. Aloysius Enslen, who collected many plants in the S. States.] (Bot.) A genus of planta, ord. Ascipiadacca. They are twining herbs, with opposite, cordate-ovate, acuminate leaves. Peduncle racemose-umbellate, many-flowered. Flowers Peduncle racemose-umbellate, many-flowered.

white.

Emw'ley, in Michigas, a post-township of Newaygo co.

Pop. (1817) about 1,800.

A post-office of Newaygo co.

Emstannp', v. a. To impress as with a stamp; to impress deeply.

Emstate', v. a. To invest with possession; to instate.

Emsue', v. a. [Fr. cassiere, from Lat. in, and sequer, to follow.] To follow as the consequence of premises; to follow in a train of events or course of time; to succeed; to come after. to come after.

to come after.

Emsuring, p. a. Following as a consequence; coming next after; succeeding.

Emsure, v. a. See Insue.

Emsure, v. a. See Insue.

Emtablisture. Entablement, n. [0. Fr. entablature; r. entablement and table, a board.] (Arch.)

The whole of the parts of an order above the column. The assemblage is divided into three parts; the architrage, the frieze, and the cornice (see Fig. 860). The first and last are variously subdivided in the different orders. See Column.

and last are variously successful and the Column.

Em'tail, n. [From Fr. entailler, to notch, to cut into.]

An estate or see entailed, or limited in descent to a particular heir or heirs; rule of descent settled for an

estate.

-c. 4. To cut off an estate from the heirs in general; to limit or settle, as the descent of lands and tenements by gift to a man, and to certain heirs specified, so that neither the donee nor any subsequent possessor can alienate or bequeath them; to fix unalienably on a person or thing, or on a person and his descendants.— See

Entail'ment, n. Act of entailing; state of being entailed; act of giving, as an estate, and directing the mode of descent; act of settling unalienably on a man

Entame', v. a. To subjugate; to subdue; to conquer. (a.)
Entame', v. a. [En and tangle.] To tie, bind, knit,
twist, or interweave in such a manner as not to be easily separated; to make confused or disordered; to involve; to perplex; to cause to be perplexed, complicated or intricate; to involve in difficulties; to embar-

rass: to puzzle; to bewilder: to ennance; to catch.

Entan'glement, s. Act of entangling; state of being
entangled; involution; a confused or disordered state;

estangies; involution; a confused or disordered state intricacy; perplexity.

Entangler, s. One who entangles or involves.

Entangling, p. a. Interlocking in confusion; per plexing; ensmaring.

Entarisia, s. (Med.) Tonic spasm; a general term ap-

Entas'sia, m. (Med.) Tonic spasm; a general term applied to tetanus, trismus, &c.

Em'tasis, n. (Arch.) Delicate and almost imperceptible swelling of the shaft of a column, to be found in almost all the Grecian examples, adopted to prevent the shafts being strictly frusta of cones.

(Med.) A constrictive spasm.

Entase'meent, n. [Fr. culassement.] A heap; a pyre;

Entans'ment. n. [Fr. entassement.] A heap; a pyre; an accumulation. (z.)

Entas'tie, a. (Med.) Relating to all diseases characterized by tonic spasme.

Ente, n. (Mer.) Any grafted emblazonment.

Entem'ele, v. a. To contain; to receive; to embrace.(z.)

Entem'ele, v. a. To make tender; to soften; to molify.—To treat kindly. (z.)

Entente Cordinale. [Fr.] (Pol.) The manifestation of goodwill and justice towards each other, exchanged between the governments of two states.

of goodwill and justice towards each other, exchanged between the governments of two states.

Em'ter, v. a. [Fr. extrer.] To go into; to move or pass, as into a place, in any manner whatever; to pierce or penetrate; to advance into; to begin, as a business, employment, or service; to engage in; to admit or introduce; to set down in writing; to set an account in a book or register; to enroll; to insert.

-v. n. To go or come in; to pass into; to pierce; to pen-etrate; to penetrate mentally: to go into minutely; to engage in, as a project; to take the first step or steps; to be initiated in; to be an ingredient; to form a con-co., abt. 16 m. W.S.W. of Winona.

ENTE

stituent part. Enterademon raphy, n. [Gr. entera, the intestines, adne, a gland, and yrapho, to describe.] (Med.) A description of, or a discourse upon, the intestinal

glands.
Enteradenol'ogy, n. [Gr. entera, adne, and logo, discourse] That just of anotomy which treats of the

discourse | That pa.t of anotomy which treats of the intestinal glands.

En'terclose, n. (Arch.) A passage between two rooms, or the passage leading from the door to the hall.

En'terer, n. One who enters.

En'terer, n. One who enters.
Enter'ic, a. [From Gr. entera, the intestines.] (Med.)
Relating to the intestines.
Enter'ic, a. [Gr. entera] (Med.) Inflammation of the bowels. This disease may be occasioned by incautious exposure to cold, by acrid substances, or by hardened faces in the bowels. Its symptoms are: pain over the abdomen; thirst, heat, and excessive restlessness and anxiety; sickness; obstinate constipation; and a hard, small and quick pulse. The pain increases as the disease proceeds, especially about the navel; there is great difficulty in voiding the urine, which is small in quantity and high-colored; and the abdomen is so tender as not to endure the alightest pressure. It often terminates in a few hours in mortification of a part of the intestinal canal; in which case the pain suddenly casses, the belly becomes tunid, the pulse sinks rapidly, and the countenance acquires a peculiar ghastliness; it also proves fatal during the inflammatory stage. Favorable symptoms are: a gradual diminution of pain vorable symptoms are: a gradual diminution of pain and of tenderness on pressure, natural evacuation by the bowels, moist skin, equal and firm pulse, and a cothe bowels, moist skin, equal and firm pulse, and a co-pious discharge of urine, depositing abundance of red sediment. This is a disease which requires prompt and decided treatment. Leeches should be applied over the abdomen, and the patient should be put in a hot bath, or fomented with hot water; the lower bowels should be evacuated by a glyster of castor-oil and gruel, but purgatives should be avoided until inflammatory symp-toms subside. Pain should be quelled by the effer-vescing draught, with a very few drops of fincture of opium. In most cases small doses of calomel and opium have been given with great advantage. When the uroplum. In most cases small doses of calomel and oplum have been given with great advantage. When the urgent symptoms give way, and the bowels have been cleared, diaphoretic saline medicines and gentle appetents may be used, and a mild nourishing diet allowed; but great care is requisite in ascertaining that all relics of the inflammatory action are got rid of, and that it is not lurking in some one spot in a chronic form, as E. is often the result of old disease existing in the cavity of the abdown the abdomen.

the abdomen. [From Gr. entera, the intestines, and kele, a tumor.] (Anat.) A rupture of the bowels, in which a protrusion of the intestines appears in the groin. Enterog raphy, to write.] (Anat.) That branch of anatomy which describes or

(Anat.) That branch treats of the intestines.

En'terohy'drocele, s. [Gr. intera; udor, water, and kele, a tumor.] (Med.) Intestinal hernia complicated with hydrocele, or a collection of serous fluid in the scrotum.

tum.

In 'terrolite, En'terelith, n. [Gr. enteron, an intestine, and lithos, a stone.] (Med.) Concretion or calculus in the intestines.

Enterology, n. [Gr. entera, intestines, and logos, discourse.] (Anat.) A treatise on the intestinal parts of the hody. of the body.

of the body.

Enterom'phatos, Enterom'phalus, n. [Fr. enteromphale.] (Med.) An umbilical hernia produced by the protrusion of a portion of intestine.

Enterop'athy, n. [Gr. enteron, an intestine, and pathos, suffering.] (Med.) Disease of the intestines.

En'teropip'locele, n. [Gr. entera, epiploon, the omentum, and kele, a tumor.] (Anal.) A rupture in which a part of the intestines, with a part of the epiploon is unstruded.

bon, is protruded.

Enteron checoele, n. [From enteron; oschon, the scrotum, and kele, a rupture.] (Med.) A scrotal hernia, or rupture of the intestines into the scrotum.

or rupture of the intestines into the scretum.

Enteretomy, n. [Gr. enteron, intestine, and tomē, a cutting.] (Anat.) Dissection of the intestines.

(Surg.) An operation, little used, which consists in opening the intestines, in order to evacuate the foscal matter accumulated in it.

Enterplead', v. n. See Interplead.

Enterprise, a. [Fr., from entreprendre, pp. entreprise, entreprise, entreprise, and an obs. root head, identical with Eng. hand.] That which is undertaken or attempted to be performed; particularly, a bold, arduous, or hazardous undertaking.— Undertaking; adventure; attempt. ture; attempt.

"Whet on Warwick to this enterprise !" - Shake

An adventurous spirit; hardihood; as, the spirit of

enterprise.
-v. a. To take in hand; to undertake; to venture; to begin and attempt to perform.

"The business must be enterpried this night." - Dryden. To set about the doing of some arduous under taking.

taxing. Em'terprise, in *Florida*, a village of Volusia co., on St John's River, abt. 75 m. S. by E. of Pilatka. Em'terprise, in *Illisots*, a post-village of Wayne co., on Elm Creek, abt. 55 m. S.E. of Vandalia.

co., abt. 10 m. w.s.w. o windows.
En'terprise, in Mississippi, a post-village of Clarke
co., abt. 120 m. N. by W. of Mobile, Ala.
En'terprise, in Missouri, a post-village of Sheiby co.,
about 35 m. W. of Hannibal.
En'terprise, in Ohio, a village of Preble co., about 100
m. W. by S. of Columbus.
En'terprise in Paramilage is a post-village of Warren

En'terprise, in Penseplonia, a post-village of Warren co, about 5 m. E. of Titusville.
En'terprise, in Ulah, a village of Morgan co.

En'éerprise, in Ulah, a village of Morgan co.
En'éerpriser, n. A man of enterprise; one who undertakes the doing of great things; a person who engages for the performance of difficult or important matters.
En'terprising, a. Resolute; bold to undertake; adventurous; active, prompt, or venturesome to attempt great or untried schemes; as, an enterprising manner.
En'terprisingly, adv. In an enterprising manner.
Entertain', v. n. [Fr. entretenir — entre, and trair, to hold; Lat. tenco.] To receive, as a guest; to treat hospitably; to receive at table; as, to entertain a party of friends.—To support; to maintain; to feed; to lodge; to be at the cost of housing and feeding.

Leaving so his service . . . so please you entertai

Leaving so his service . . . so please you entertain me." — Shaker. To reserve or cherish in the mind: to hold; to harbor; to cherish; as, to entertain good-will towards another.—
To treat with conversation; to amuse or instruct by discourse; to please; to divert; to amuse; as, to entertain an auditory with music.—To receive or admit, with a view to consider and decide; as, to entertain a suggestion.—s. n. To welcome and treat guests; as, we were hospitably entertained.

-v. n. To welcome and treat guests; as, we were hospitably entertained.

Emtertainier, n. One who entertains, diverts, receives, holds, or accepts.

Emtertain'ing, a. Pleasing; amusing; diverting; as, an entertaining performance.

Entertain'ingly, adv. In an amusing or entertain-

Envertain ingly, adv. In an amusing or entertaining manner.

Entertain ing meas, n. State, quality, or faculty of being entertaining, or of promoting diversion.

Entertain ment, n. Act of entertaining; hospitable reception and treatment; act of diverting or amusing; act of admitting, holding, or cherishing; as, the entertainment of guests at table, the entertainment of heterodox opinions, &c.

—That which entertains, or causes entertainment;—hence, a treat; a hanguet; a festival; as, a costive entertainment.

a treat; a banquet; a festival; as, a costly entertainment.

—That which strikes the attention agreeably, and erouses or diverts; as, a cramatic entertainment.

Em'theasum, n. Enthusiastic elation; spiritual inspi-

En'theasem, n. Enthusiastic elation; spiritual inspiration. (a.)

Entheas'tic, a. [Gr. entheastikos.] Spiritually energetic; having divine potency.

Entheas'tically, adv. With divinely effectual powers.

Entheas'tically, adv. With divinely effectual powers.

Entheas'tically, adv. With divinely effectual powers.

Entheas interior, and elssinthos, a worm.] (Med.) Worms in the bowels or intestines.

En'theus, n. [Gr. entheas.] Inspiration. (a.)

Enthral', Enthrall', c. a. Same as Inthalli, q. v.

Enthral'ment, n. Same as Inthalment, q. v.

Enthrone', v. a. [Es and throne.] To place on a throne; to exait to the regal seat of dignity; to exait to an elevated place or seat;—hence, by implication, to invest with sovereign or supreme authority; as, to enthrone a monarch.

(Eccl.) To induct or install into a vacant episcopal

monarch.

(Eccl.) To induct or install into a vacant episcopal see; as, to enthrone a bishop.

Enthrome'meent, n. Act of enthroning a monarch or prelate.—State of being enthroned.

Enthromization, n. Act of enthroning; particularly, the act of installing a bishop on his episcopal throne.

Enthro'mise, v. a. To place on a throne, as a sovereign or prelate.

Enthusiasum, (en-thá'si-asm,) n. [Fr. enthousiasme; Gr. enthousiasme; from enthousiach, to be inspired or possessed by a god, from enthess, inspired—en, and these, a god. See Texist.) Divine motion or inspiration; any wild passion; poetical fury; a heat or ardor of mind caused by a belief of private revelations; a religious state of mind, in which the imagination is unduly heated, and the passions outrun the understanding; fanaticiam; ardent zeal; irrepressible fervor of the imagination; ardent seal in the pursuit of laudable objects; heat of imagination, tempered by reason or experience.

seal in the pursuit of laudable objects; heat of imagination, tempered by reason or experience.

Enthwisiast, n. [Fr. enthousiast; Gr. enthousiastis.]
One who is possessed of enthusiasm; a visionary; a fanatic; a zealot; one whose imagination is warmed; one whose mind is highly excited with the love or in the pursuit of an object; a person of ardent zeal; one of elevated fancy or exalted ideas; as, a religious enthusiast.

Enthusias'tie, Enthusiastical, a. [Gr. enthousiastics]. Filled with enthusiasm, or the conceit of special intercourse with God, or revelations from him; highly excited in the pursuit of an object; heated to animation; warm; ardent; zealous; devoted; visionary; fanatical; elevated; tinctured with enthusiasm; as, "rapture and enthusiastic heat."—Thomson.

Enthymeematics. Enthymeematical, a. [Gr. enthymeematikos.] Pertaining to or comprising an enthymeem.

Em'thy meme, s. [Fr., from Gr. enthy mėma, from en-thysecomai, to think, to ponder well—en, and thymos, the soul, from thee, to rush on or along.] (Rhet.) An argument consisting only of two propositions, an an-tecedent and a consequent deduced from it.

"What is an enthymens, quoth Cornellus? — Why, an enthymens, replied Oramba, is when the major is indeed married to the minor, but the marriage kept secret."—Arbeidned.

According to W. Hamilton and De Quincy, the characteristic difference which separates an £ from a syllogism does not consist in the mere accident of suppressing one of its propositions, — either may do this, or neither; the difference is essential, and in the nature of the matter; that of the syllogism being certain and apodeictic, that of the £ probable, and drawn from the province of country. opinion.

opinion.

Emilee', v. a. [Fr. attiser; Sp. atisár; Wallach. atsitsa, to excite; It. attiszare, from Lat. titio, a firebrand.] To excite; to incite or instigate, by exciting hope or desire; to allure; to tempt; to decoy; to seduce; to draw by blandishments or hopes; to coax; to induce to sin; to use a lead attri-

to urge or lead astray.

Entice'able, a. Capable of being enticed; susceptible

to temptation.

to temptation.

Entice "ment, n. Act of enticing; act or practice of alluring or tempting to evil. "Sly enticement gives his baneful cup." (Milton.) — Means of enticing; blandishment; allurement; seduction; instigation; temptation;

Enticer, n. One who entices; one who allures to evil.
Enticingly, adv. Charmingly; in a winning manner. e strikes a lute well, and sings most enticingly."—Addison

Entire', a. [Fr. entirer; It. intero; Lat. integer—in, and tago, tango, to touch.] Untouched; untainted; unsulled; unmixed; pure; without foreign admixture or alloy; as, "joy entire." (Millon.)—Unbroken; complete in its parts; full and perfect.

"Then back to fight again, new breathed and entire."

Complete; not participated with others; whole; undivided; as, he has the entire control of his own will.—Full; comprising all requisites within itself; firm; faithful; sure; solid; fixed; as, entire fath.—With vigor unabated; in full strength; not deformed or mutilated; free from blemish and defect; as, an entire horse.

(Bot.) Even-edged; i. e., not toothed, notched, or divided.

vided.

-m. Anything whole, unmixed, or perfect; specifically, malt liquor, as ale, porter, &c., drawn from the one vat; as, Barclay and Perkins' Entire.

Entire'ly, adv. In the whole; fully; completely; as, his memory is entirely gone.

-Unmixedly; without alloy; truly; faithfully.

Entire'ness, n. State or quality of being entire; completeness; fulness; totality; unbroken form, condition, or quality.

pleteness; fulness; totality; unbroken form, condition, or quality.

Honesty; uprightness; integrity.

Entire'dy, n. State of entireness; wholeness; integrity: as, entirety of satisfaction.—The whole; that which is entire or complete.

Entitiative, a. [See Entire.] Considered as an entity, or in the abstract.

Entitie, v. a. [Fr. intituler — Lat. in, and fillulus, a title. See Title.] To give a title to; to give or prefix a name or appellation; to designate; to denominate; to style; to characterize; to prefix as a title; to call; as, to entitle a senator "Honorable."

To give a claim to; to give a right to demand or re-

to entitle a senator "Honorable."

To give a claim to; to give a right to demand or receive: to qualify; as, to be entitled to compensation.

Em'tity, n. [Fr. entitl, from L. Lat. entitus, from obs. ens, entis, from ease, to be.] Essence; existence; being; substance; a real being, or species of being.

"Their entity and quiddity.
The souls of defunct bodies, fly." - Huddbras.

En'toblast, n. [Gr. en'os, within, and blastos, bud.]
(Anat.) The so-called nucleolus. See Ecroblast.
Entoil', v. a. To take with toils; to insnare; to en-

Entomatog'raphy, n. Radically the same as Ex-

Entomatog rapmy, ...
TOMOLOGY, q. v.
Eutomb, (en-tööm',) v. a. [En and tomb.] To bury in a grave; to inter; to deposit in a tomb; to inhume.
Entombment, (en-tööm'ment,) n. Act of entombing;

burial; interment.

Entom'éc, Entom'ical, a. [See ENTONOLOGY.] Pertaining, or relating, to insects.

En'tomoid, a. [Gr. entomon, insect, and eidos, form.]
Resembling an insect.

—n. That which resembles an insect.

Entom'olime, n. [From Gr. entomon.] (Chem.) A chemical principle found in the elytra and wings of insects.

sects.

Entom'olite, n. [Gr. entomon, an insect, and lithos, stone.] An insect in a petrified state.

Entomologie, Entomologieal, a. Pertaining to entomology, or to the science of insects.

Entomologieally, adv. In an entomological

manner.
Entomol'ogist, n. [Fr. entomologiste.] One verse in the science of insects

in the science of insects.

Entomed'ogy, n. [Fr. entomologis:] One versed in the science of insects.

Entomed'ogy, n. [Fr. entomologis: Gr. entoma, insects.—en, in, temo, to cut, and logas, discourse: Latinsecta. See INSECT.] The science or natural history and description of insects. The name insect implies an animal insected or divided into segments. This term is applicable to the principal part of the articulate subkingdom, and was formerly applied to fit; at present, the word insect is only used in reference to those articulated animals which are distinguished by antenne and breathing-organs composed of ramified trachese, with or without air-sacs. The science of entomology presents to the student of nature the most numerous and diversified objects worthy of attention. The observation of the structure and instincts of insects is full of interest, and has at all times engaged the attention of men of science. Along with other branches of natural history, the study of entomology was cultivated by Aristotle and other philosophers among the ancient Greeks. Pliny

does not add much in his works to the information given by Aristotle, and it was not studied as an absolute science till the 17th century, when progress began to be



Fig. 944. — XYLOCOPA (Carpenter Bee) AND ITS NESS Fig. 944. — XILOGOPA (Carpenter Bee) AND ITS REST. made. The chief naturalists of that period were Gosdart, Swammerdam, Malpighi, Leeuwenhoeck, and Ray. During the 18th century, the great Swedish naturalist Linseus gave his attention to the atudy of entomology, and his classification, as far as the orders are concerned, has served as the basis of all that have been since promulgated. It is founded on the presence or absence of the wings, their number, consistence, surface, position in repose; and also on the presence or absence of a sting. De Geer and Fabricius are, perhaps, after Linnseus, the most worthy to be named of the great entomologists of the 18th century. At the close of the 18th and beginning of the 19th century, the name of Latreille is pre-eminently conspicuous. Since the beginning of the 19th century, the number of insects known and described has prodigiously increased; many entomoloscribed has prodigiously increased; many entomolo-gists have with great advantage devoted themselves particularly to the study of particular orders of insects; gists have with great advantage devoted themselves particularly to the study of particular orders of insects; and many valuable monographs have appeared. Entomological literature has now become very extensive. We cannot attempt to enumerate the distinguished entomologists of the 19th century, but perhaps the names of Say, Meigen, Jurine, Gyllenhal, Gravenhorst. Hubner, Dufour Boisduval, Erichon, Lacordiere, Leach, Macleay, Curtis, Westwood, Walker, Smith, and Swainsen, deserve particular notice. — See Insects.

Entomophiagous, a. [Gr. entomon, insect, and phanein, to eat.] Insectivorous; feeding chiefly on insects, as the oposeums, bandicoots, &c.

Entomostracea, n. : pl. Envonostracans. [Gr. entomos, and ostrakon, burnt clay.] (Zod.) An order of crustacea, comprising those which are covered with a thin horny tegument in the form of a shell, and consisting of 1 or 2 pieces. They have normally 6 or 5 cephalic rings; the 8 or 9 posterior ones belong to the foot series, but 3 or more hind pairs of these are usually obsolete. The abdomen is also without appendages. The Barvacles, q. v., belong to this order.

Entomostraceus, a. Belonging to the entomostraca.

Entomotomist, n. One versed in entomotomy.

Entomotomist, n. One versed in entomotomy.

Entomotomy, n. [Gr. entomon, an insect, and tempin, to out.] The science of the dissection of insects.

Entomic, a. [Gr. entomos, strained. See Entassia.] (Med.) Possessing extreme tension.

Entophyte, n. [Gr. entomos, within, and phyton, a plant.]

Enton'ic, a. [Gr. entoms, strained. See Entasia.] (Med.) Possessing extreme tension.

En'iophyte, n. [Gr. entos, within, and phyton, a plant.]

(Bot.) A plant which grows from within another, as rhizanths and fungi.

Entozo'a, n. [Gr. entos, and soön, an animal.] (Zoil.) A name given to an extensive class of low-organized invertebrata, of the group Annulosa, the greater part of which are parasitic on the internal organs of other animals. This class corresponds to the order of Nema-

roids, q. r. **Entozo'ie**, a. Relating or pertaining to the entozo

the entozoa.

Entozoaii ogrist, n. [From entozoin, and logos, treatise.] One learned in the science of the entozoa.

Entozo in, n.; pl. ENYSOA, q. v.

Entracte, (dng-trakt), n. [Fr.] (Dram.) The interval which occurs between the acts of a dramatic representa-

A musical divertissement introduced between

(Mus.) A musical divertissement introduced between the acts of a play.

Entrails, (en'trâls,) n. pl. [Fr. entrailles; Gr. entera, pl. of enteron, from entos, the inside.] The internal parts of animal bodies; the intetines; the guts; the bowels.

— The internal parts; as, the entrails of the earth.

Entrain'mel, v. a. Same as Transet, q. v.

Entrained, (en'trans,) n. [Lat.intrans, going into, from intro. See Enter.] Act of entering into a place;—opposed to exit; as, the entrance of a minister into office.

— Power of entering; ingress; as, free entrance into a theatre. — The door, gate, passage, or avenue by which a place may be entered; as, the entrance of a house.—

Commencement; beginning; initiation; as, suframes into good society.—Act of taking possession; as, catrance into an estate.—The entering of the name of a thing or things into an official register; as, a ship's ca-

trance at a custom-house. Entrance', v. a. or n. trance at a custom-nouse.

Intrance, v. d. or n. [En and trance; O. Fr. transe.

See TRANCE] To put in a trance or swoon; to transport

out of the senses; to take away consciousness from.—

To throw into an ecstasy; to ravish the senses with delight or wonder.

"I stood entranced, and had no room for thought."-Dryden Entrance'ment, s. Act of entrancing; state of

Entrance ment, a. Act of entrancing; state of trance or exists.

Entrap', v. a. [Fr. attraper—a, ad, and trappe, a trap. See Trap.] To catch, as in a trap; to enmesh; to insuare; to involve; to perplex; to entangle; to invelgle; to decoy; to embarrass.

Entrap'pingly, adv. In a manner to entrap or invelge.

Entreat', v. a. [Fr. en, and trailer, from Lat. tracto. See Treat.] To treat; to use or manage; to deal with; to conduct toward.

"Whereas thy servant worketh truly, entrest him not evil."

Ecc. vii. 30.
To prevail upon by solicitation and importunity.— To —To prevail upon by solicitation and importunity. — To seek to obtain by treaty, engagement, or promise; to ask earnestly; to petition or pray with urgency; to beg; to crave; to beseech; to solicit; to supplicate; to importune; to implore; as, to entreat a favor. —v. n. To make an earnest supplication or request; to beseech; as, to entreat for a man's life. Entreat'able, a. Susceptible of being obtained by entreaty.

entreaty.
Entreatier, s. One who makes entreaty.
Entreatingly, adv. In a beseething, entreating

Entreat'ive, a Beseching; pleading; imploring.
Entreat'y, n. Urgent prayer; pressing solicitation;
earnest request; solicitation; importunity; as, deaf to

earnest request; solicitation; importunity; as, deaf to entreaties.

Entre Dource & Minho, (en'trd doo-air-o ai meen-yo,) often called Minho, the most N. province of Portugal, bounded N. by the Spanish prov. of Galicia, from which it is separated by the River Minho, and on the W. by the Atlantic Ocean. Area, 3,094 sq. m. It has been called the Paradise of Portugal; and indeed it may be doubted whether any territory in Europe of equal extent exhibits so much beauty. It is traversed from N.E. to S.W. by three mountain-ranges, which, however, sink down as they approach the coast, leaving a considerable tract of undulating country along the sea-margin. The chief rivers, hesides the Minho, and the Douro, which separates it from the S. prov. of Beira, are the Lima (a portion of the vale of which is said to form the loveliest landscape in the world), the Cavado, and the Tamego. The climate is agreeable and healthy. Prod. Wine, oil, flax, maize, wheat, barley, oats, and vegetables. Along the coast are numerous fisheries. The prov. consists of three dista, Braga, Vianne, and Porto, with the town of Braga for the capital. Pop. 864,918.

Entree, n. [Fr.] An entry; entering; a coming in; as, to have the entree of good society.

—The first course of viands served at dinner; as, the entree of the soups.

—The first course of viands served at dinner; as, the entrée of the soups.
Entremets, (ong-tr-md',) n. s. and pl. [Fr. entre, between, and mets, a dish.] (Cookery.) A small, dainty dish, or epicurean viand, set on a dinner-table between the more substantial meats, or pieces de resistance.
Entremet's, v. a. See INERENCH.
Entremet's, (ong-tr-pô',) n. [Fr.] A warehouse (bonded or free); a magazine for merchandise. — A mart or port for ablusing goods in transit.

or free); a magazine for merchandise.—A mart or port for shipping goods in transit.

Entre Rios ['between the rivers''], a province of the Argentine Republic; area, about 45,000 sq. miles. Rivers. Urugusy, Parana, Corrientes, Gualequay, and numerous other smaller streams. Surface, generally low; soil, in some parts, fertile. Principal towns. Parana, Ybicuy, and the cap, Bajada de Santa Fé. Pop. (1897) 300,000.

Entresol. (ong-tr-soil', n. [Fr.] (Arch.) A floor between two other floors. It consists of a low apartment placed above the first floor, as in Paris, or between the ground-floor and the first floor, as in London.

Entre-chal, a. Pertaining to entrochite; partaking of the qualities of entrochite.

Entre-chite, n. [Gr. en. and trochos, a wheel.] (Pal.) A genus of fossils, consisting of the petrified arms of the see-starfish.

Entre-pulsum, n. [Gr. en, and tropē, turning.] (Surg.)

Entropium, n. [Gr. en, and tropē, turning.] (Surg.)

E. and Extropium are terms for the turning in and the turning out of the eyelids. In one case the lashes rub on the base of the eye, causing constant pain and shedding of tears; in the other the ball of the eye is exposed to all the accidents of dust and air.

to all the accidents of dust and air.

Entrust', v. a. See Intrust.

Entrust', v. a. See Intrust.

Entrust', v. a. See Intrust.

Entrust', v. [Fr. entrée. See Entre.] The act of entering; entrance; ingress; inlet; as, the entry of a man into public life, the entry of a ship into port, &c. — Way, path, or passage in or into; the passage by which persons enter a liouse or other building; as, policemen dodge about an entry for the cook's cold victuals. — Act of entering and taking possession of lands or other estate. — Act of committing to writing, or of recording in a book; as, to make a lodger entry.

"A notary made an entry of this sot."—Bacon.

((Dm.) The passing of a ship's documents at a custome.

"A notary made an entry of this act."—Bacon.

(Com.) The passing of a ship's documents at a customhouse, or the depositing of the requisite papers, to legalize the landing or shipment of goods, merchandise, &c.

(Book-keeping.) The act of recording commercial transactions as they occur. Emple-entry is that which is entered only once in the accounts in the ledger; a Doubleentry is effected by entering transactions in the ledger

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**EPAM** 

twice, first to the debtor of one set of accounts, and then to the creditor of another set. In making the two entries, one is a real account under the name of the debtor or creditor, and the other is a nominal or imaginary account under the head of the goods that have been bought or sold. Take, for instance, the article "Sugar;" say the trader purchases a hogslead of the article from A. B. & Co., the first enters in the regular way to the Cr. of A. B. & Co., and then, turning to the folio headed "sugar," he enters it on the Dr. side of the account as bought from A. B. & Co. In the same way, when the hogshead is sold to E. F. & Co., at is entered first to the Dr. of those parties, and then under the Cr. side of sugar as sold to E. F. & Co. By these double-entries, one the counterpart of the other, the nominal constantly check the real or personal accounts; and a trader can at all times tell how, when, and at what prices his property has been disposed of, without analyzing general accounts. — See BONE-EEFING.

(Law.) The taking possession of lands and tenements wherea man has title of entry. Entry is either actual, made by the party or his attorney; or an entry in law, by continual claim. Remedy by entry takes place in cases of abatement, intrusion, and disseisn; not on discontinuance or deforcement.

Entume', v. a. To tune.

Entwime', v. a. To twine; to twist round; to entangle; as, to exteriors a wreath.

-- n. To become twined, twisted, or involved; as, entering which laurels.

Entwine'meement, n. A twining or twisting round. twice, first to the debiar of one set of accounts, and then to the creditor of another set. In making the two en-

-e. s. To become twined, twisted, or involved; as, extension with laurels.

Entwine'ment, n. A twining or twisting round.

Entwist', v. a. To twist or wreathe round.

Entwist', v. a. To twist or wreathe round.

Entwist', v. a. To twist or fog, as the atmosphere.

Free from cloud, mist, or fog, as the atmosphere.

Enu'eleaste, v. a. [Lat. enucleare; Fr. enucler.] To unravel; to expose; to explain; to render clear; to make manifest; to solve.

Enu'eleaste, v. a. [Fr.] Act of solving, or making exposition of; a clearing up; a making manifest.

Enu'meerate, v. a. [Lat. enumero, enumeratus --e, ex, and nussero, from numerus, number, q. v.] To count or tell, number by number; to reckon or mention a number of things, each separately; as, to enumerate a person's faults, and ignore his merits.

Enumeration, or of counting or telling a number, by naming each particular.

—An account of a number of things, in which mention is made of every particular article.

made of every particular article.

(Rhe.) A recapitulation or summing up of the heads

of an argument. nerative, a. [Fr. enumératif.] Counting up one

Enumerator, s. One who enumerates.

ciated.

Enumeiate, (~num'shi-dl.) v. a. [Lat. enuncio, enunciatus — e. ex. and nuncio, to declare, from nuncius, a messenger. See Nuncio.] To proclaim; to declare; to tell; to assert; as, to enunciate a belief. — To utter; to pronounce; as, to enunciate a word with distinctness. — a. a. To utter or pronounce words or syllables.

Enumeiation, (enun-shi-a'shun,) n. [Lat. enunciatio.] Act of enunciating, or of uttering and pronouncing; open attestation, proclamation, or declaration; as, the enunciation of a doctrine. — Manner of uttering articulate sounds; lingual expression; as, to speak with a slow enunciation.

The words in which a proposition is expressed: state—

alow enunciation.

The words in which a proposition is expressed; statement; announcement; intelligence: as, the "enunciations of the intellect and will."

Enun'ciative, a. [Lat. enunciations.] Relating or pertaining to enunciation; expressive; declarative; as, enunciative terms.

Enun'ciatively, adv. By way of declaration.

Enun'ciatively, adv. By way of declaration.

conditions, (Pass sector), h. One wis challenges or declares.

Enum'ciatory, a. Having reference to enunciation.

Enum'ciatory, a. [Gr. enumein, to make urine in.] (Med.)

Urine discharged involuntarily.

Enum's ey, n. (Her.) A bordure charged with wild beats.

Envault'. v. a. To inter; to entomb; to enclose in a

vanit.

Enveigle, (enve'gl.) See Inveigle.

Envelope, v. a. [Fr. envelopper, from Lat. involvere—
in, and colvere, to roll: L. Lat. involpere. See Voluble.]

To roll or fold in; to infold: to cover by wrapping and
folding; to inwrap; as, to envelop a letter.— To cover
on all sides; to hide; to surround entirely; as, enveloped in fug.

ke envelops either host." — Dryden,

En'velope, Envel'op, n. That which infolds or in-wraps; a wrapper; a cover; a covering for a letter, par-cel, ac.; an investing integument; an outward covering

or case.
(Astrom.) Same as Coma, q. v.
(Fortif.) An earthwork raised to defend a weaker one.
(Goma.) Curve or surface generated by the repeated
interjections of given curves or surfaces, whose position,
form, and magnitude are allowed to vary according to

some continuous law.

Envel'opment, n. [Fr. enveloppement.] A wrapping an envelop. — Act of enveloping; an inclusing or covering on all sides.

mg on all sides.

Envenéem, v. n. [Fr.ensenémer—en, and venén, venom.

See Varon.] To taint or impregnate with venom, polson, or any substance destructive to life; to polson; to inculais with deleterious matter; as, envenomed wine.

o enrage; to provoke; to examperate; as, to enterom woman's jealousy.
 Em'viable, a. That may excite envy; susceptible of evoking ardent desire of possession; very desirable; as, an enviable state of single blessedness.
 Em'viablemess, n. State or quality of exciting envi-

En'viably, adv. In an enviable manner.
Envie', v. a. To vie; to seek to equal or excel.
En'vier, v. One possessed of envy; one who envies or nations another.

En'vier, n. One possessed of envy; one wno envies or maligns another.
En'vious, a. [Fr. envieux; Lat. invidious.] Infected with envy; feeling, exhibiting, or expressing envy; repining or suffering chaprin, at the excellence, prosperity, or happiness of another: tinctured with envy, as feelings; excited or directed by envy, as remarks.

"Heav'n cannot envious of his blessings be."—Drydon.

—Inspiring, provoking, or eliciting envy.
En'viously, adv. With envy; actuated by envy; in an envious manner.

"How enviously the ladies look."

En'viousness, n. Quality or state of being envious. Environ, v. a. [Fr. environner—en, and O. Fr. viron, to surround, from Gr. gyros, round. See Gyrarz.] To surround; to encircle; to encompass; as, a place environed by woods.

"Environed with a wilderness of sin." - Shaks. To invoive; to envelop; to besiege; to inclose; to in-

in on universe states; neighborhood; yichnage; as, the environs of New York.

Emvisiage, v. a. [Fr. envisager.] To gather by intuitive perfection, or by looking in the face of.

Emvisiagement, n. Act or faculty of envisaging.

Emvol'ume, v. a. To form into a volume, as printed sheets.

Em'voy, n. [Fr. envoyé, from envoyer, to send—en, and vote, from Lat. via, a way. See War.] One who carries a message; a messenger; specifically, a person next in rank to an ambassador, deputed by a sovereign, or ruler of a state, to negotiate a treaty, or transact other political business with a foreign prince or government. See Anassanda, Emzast, Charge D'Affairs.

Em'voyship, n. Office, rank, or dignity of an envoy. Em'vy, v. a. [Fr. envier; Lat. invidere—in, and videre, to see on purpose, to look at. See Vision.] To hate or dislike on account of prosperity and happiness; to repine at another's well-doing; to grudge another's superior position or advantages.—To feel uneasiness, chagrin, mortification, or discontent at the sight of superior position or discontent at the sight of superio grin, mortification, or discontent at the sight of st excellence, reputation, or happiness enjoyed by another.

" I have se m thee fight when I have envied thy behaviour." S To impart unwillingly; to withhold maliciously; as, envy others' participation in that which is enjoyed by one's self.

sell.

To covet; to hanker after; to desire strongly; as, " the envid kiss to share." — Gray.

e.n. To feel envy; to experience a sense of longing for something possessed by another, and hence, unattainable.

"Who would entry at the prosperity of the wicked ? "- Taylor.

An uneasiness of mind, occasioned by the considers -a. An uneasiness of mind, occasioned by the consideration of a good we discover in the possession of another person, whom we deem less worthy of it than ourselves. It is characterized by a degree of sorrow that the good contemplated should escape ourselves, and of anger, that it should fall to the share of another. It differs from emit should fall to the share of another. It differs from emulation, which is merely a desire to become possessed of something which is enjoyed by another; whereas in envy there is a malevolent feeling which desires that others be brought down below our own level.

Enwall', v. a. See INWALL.

Enwall', w. a. See INWALL.

Enwall', v. a. [In and wheel.] To encompass; to encircle.

Enwomb. (en-woom',) v. a. To secrete; to bury or hide,

as in a womb.
"Afric's Niger stream enwombs itself into the earth."-

Enwrap, (en-rap',) v. a. See INWRAP.

Enwrap. (en-rap',) v. a. See Inwrap.
Enwrap ment, n. Act of enwrapping; also, that which enwraps, as a wrapper, covering, &c.
Enwreathe', v. a. See Inwrath.
Enyo. (Myth) A Greek goddess, who delights in havoc and bloodshed. In Hesiod (Theog. 273), E. is one of the Graise, or daughters of Phorous and Réto.
Ens. (ents.) a river of Germany, flowing through Wittemberg and Baden, and, after a course of 70 m., joining the Neckar to the left of Stuttgart.
Ensell, or Enselli. (ensai'le.) a lake of Persia, prov. of Ghilan, communicates with the Caspian Sea by a channel 500 yards across; length, 25 miles.
E'oceme. n. (Gr. cos, the dawn, and kainos, recent.]
(Gool.) A term introduced by Lyell to designate the lower tertiary strata, from the idea that the very small percentage of still existing species among the fossis of these strata indicates what may be regarded as the dawn or commencement of the present condition of creation.
See Termar System. See TERTIARY SYSTEM.

Ec'la, in Oregon, a post-village of Polk co., on the Rick real River, about 5 m. W. of Salem.

-To render odious; to make detestable or hateful. — To infect with malice, bitterness, or uncharitableness.

"With sneemon'd tongue to blast the fame of harmless men."

Philips.

-To enrage; to provoke; to exasperate; as, to encenom woman's jealousy.

Em'viable, a. That may excite envy; susceptible of evoking ardent desire of possession; very desirable; as, an enriable state of single blessedness.

Em'viableness, n. State or quality of exciting enviable desire.

Em'viably, adv. In an enviable manner.

Em'viably, a. To vie; to seek to equal or excel.

Em'viably, a. To vie; to seek to equal or excel.

Em'viably, a. (Fr. envieux; Lat. invidiosus.) Infected with envy; feeling, exhibiting, or expressing envy; re
with envy; feeling, exhibiting, or expressing envy; re-

firm skin, and 1-celled anthers opening longitudinally.—The species are shrubs or small trees, nahaily.—she shrubs or small trees, natives of Australia, the Indian Archipelago, and the South Sea Islands, where they are very numerous. There are 30 genera, and 320 species. They are of little importance, except for the beauty of their flowers, on which account they are much cultivated. The are much cultivated. The fruits of many are edible; as those of Astroloma humifusum, Tasmanian cran-berry, and Leucopogon Richei, the native current of

Australia.
Epact,(e'pakt,)n.[Gr.epaktos—epi, and ago, to lead.]
(Ciron.) The excess of the solar month above the lunar synodical month; or

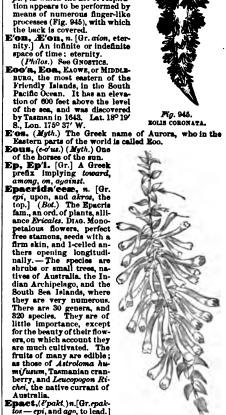


Fig. 946. EPACRIS GRANDIFIORA.

of the solar year above the lunar year of twelve synodical months; or of several solar numar year of twerve synonical months; or of several solar months above as many synodical months; or of several solar years above as many periods, each consisting of 12 synodical months. The menstrust E is the excess of the civil calendar month above the lunar month. For a month of 31 days, this E is 1 day 11 hours 15 minutes 67 seconds, if we suppose new moon to occur on the first day of the month. The annual E is the excess of the 57 seconds, if we suppose new moon to occur on the mrss day of the month. The annual E is the excess of the solar year above the lunar. As the Julian solar year is (nearly) 365 days, and the Julian lunar year is (nearly) 365 days, and so on. When, however, the E passes 30 days, and so on. When, however, the E passes 30 days, 30 falls to be deducted from it, as making an intercalary month. For three years, then, the E is properly 3; and for 4 years, adding 11 days, it is 14 days; and so on. Following the cycle, starting from a new moon on the 1st of January, we find that the E. becomes 30 or 0 in the 19th year. The E for the 20th year is again 11; and so on. The years in the cycle are marked by Roman numerals, I. H. III., &c., called the Golden Numbers; and a table of the Julian E. exhibits each year in the cycle with its golden number and E. As the Gregorian year (see Calendar) differs from, and is in advance of, the Julian by 11 days (the number lost on the Julian account before the Gregorian computation of time was introduced in England), and as 11 days is the time was introduced in England), and as 11 days is the difference between the solar and lunar years, it follows that the Gregorian E. for any year is the same with the Julian E. for the year preceding it.

Epagogo, n. [Gr.] (Rhet.) An inductive form of speech. See INDUCTION.

speech. See INDUCTION.

Epal'pate, a. [Lat. e, and palpatus, to touch lightly.]

(Zoil.) Without antenne; — said of certain insects.

Epaminon'das, a Theban general, one of the greatest commanders, statesmen, and particts of ancient times, was descended from the former kings of Thebes, although the fortunes of his family were so fallen that he was as conspicous for his poverty as for his birth. His brilliant natural talents had been carefully cultivated by study; and when he embarked in public affairs.

he speedily took the lead as general and politician. Having, at the imminent risk of his own life, saved that of Pelopidas in battle, a friendship was formed between that eminent man and him, which proved of the utmost advantage to their common country; and it was his advice which impelled the former to liberate Thebes

from the Lacedemonian yoke. War was declared, and Epaminondas led the Theban Epaminonnasied the Ineban troops to victory and inde-pendence at the celebrated battle of Leuctra, 371 B. c. On his return, both he and Pelopidas were put on their trial, for having held their command longer than the time prescribed for by law. They acknowledged the fact, They acknowledged the fact, and expressed their willingness to suffer the penalty—death, provided that, as Epaminondas sarcastically stipulated, it were recorded on their tomb that they had



been condemned to die for having saved their country Fig. 947.—RPANINONDAS. from ruin. This diguified reproof struck home, and their immediate acquittal followed. The rising power of Thebes excited the jealousy of Athens and other States, and Sparta put forth all her of Attens and other states, and Sparts put forth all her strength to humble the people who, from being tribu-tary, had started up their more than equals, their con-querors. Several campaigns ensued, in one of which Epaminondas had nearly taken by surprise the city of Sparta itself; but meeting with a check, he turned to attack Mantinea, near which the two hostile armies of Thebes and Lacedemon, with their respective allies, finally encountered. He attacked the Spartan phalanx in person, and put it to flight; but during his pursuit he was mortally wounded in the breast by a javelin, s. c. 362. Being told by the physicians that he would die as soon as the weapon was extracted, on receiving intelligence that the Bootians had gained the victory, he telligence that the Beetlans had gained the victory, he is said to have torn out the javelin with his own hand, exclaiming, "I have lived long enough." His moral purity, justice, and clemency are extolled by the ancients as much as his military talents; and it is expressly recorded of him, that he never told a lie, even in jest.

in jest.

Epanadiplo'sis, n. [Gr. See Anadiplosis.] (Rhet.)

A figure of speech by which the same word occurs both
at the beginning and termination of a sentence; as,

"Awake, my own beloved, awake!"

Epanalep'sis, n. [Gr. See Analepsis.] (Rhet.) A
rheturical figure which conveys a repetition of the same
word after intervening words.

Epanaphora, (epan-af'o-ra,) n. [Gr.] (Rhet.) An
anaphora

Epanastrophe, (e-pan-as'tro-fe,) n. [Gr.] (Rhet.) A figure of speech which serves to introduce the termination of one sentence (or clause) as the beginning of the

Epan'odos, n. [Gr.] (Rhet.) A figure in which the sev-

Epan'edos, n. [Gr.] (Rhet.) A figure in which the several parts of a sentence are repeated inversely; a coming back to the leading heads of a discourse, after a digressive examination of the various topics involved.

Epanortho'sis, n. [Gr.] (Rhet.) A figure of speech recalling an expression previously uttered, in order to replace it by a more emphatic one; as, "Fair girl! Fair, shall I say? no, fairest girl! anthos, a flower.] (Bot.) Having existence upon flowers;—used in relation to some species of fungi.

Epan'thous, a. [Gr. epi, and anthos, a flower.] (Bot.) Having existence upon flowers;—used in relation to some species of fungi.

Ep'arch, n. [Gr. eparchos.] In ancient Greece, the ruler of a province.

Ep'archy, Ep'archie, n. [Gr. eparchia.] In ancient Greece, a province, or subdivision of territory forming the jurisdiction of an eparch or governor. In modern Greece, the equivalent appellation is nomarchic, q. v.

Epaule, (ep-ō-lā',) n. [Fr., a shoulder.] (Fortif.) The shoulder or angle of a bastion.

Epaulement, (ep-ō-lā',) n. [Fr.] (Fortif.) The shoulder or short parapet made at the flank of a battery, or extremity of a parallel, to prevent its being enflated.

filaded.

Epaulet, (ep'a-let.) n. [Fr. epaulette, from epaule, shoulder.] (Mil.) An ornamental badge, worn on the shoulder of military men. The E. of commissioned officers are usually of gold, while those worn by non-commissioned officers, &c., are usually of brass, worsted, &c.

Ep'auletted, a. Furnished with epaulets.

Epée, Charles Michel, Abbé De L', one of the founders of the system of instruction for the deaf and dumb, was B. at Versailles, Nov. 25, 1712. He studied for the church, and entering into hely orders became a preacher and

B. at Versailles, Nov. 25, 1712. He studied for the church, and entering into holy orders, became a preacher and canon at Troyes, but eventually, on account of his Jansenist opinions, was deprived of this appointment. He then lived in retirement at Paris. In the year 1755, he first began to occupy himself with the education of two deaf and dumb sisters; and, as he asserts, without any previous knowledge of Pareira's efforts in the cause, invented a language of signs, by which persons thus afficied might be enabled to hold intercourse with their fellow-creatures. His first attempts being crowned with fellow-creatures. His first attempts being crowned with success, he determined to devote his life to the subject. At his own expense, he founded an institution for the deaf and dumb, and labored with unwearied zeal for its dear and dumb, and labored with unwearied zeni for its prosperity. His favorite wish, however, the foundation of such an institution at the public cost, was not ful-filled till after his death, which took place Dec. 23, 1789. He wrote a work, entitled Institution des Sourds et Muets (2 vols., Paris, 1774), which afterwards appeared in an improved form under the title, La Véritable Manière d'Instruire les Sourds et Muets (Paris, 1784).

mere a marrure ses source se musts (Paris, 1164).

Eponcephall'a Arch, n. [Gr. epi, upon, and egkophalon, the brain.] (Anat.) The bony arch which encompasses and protects the epencephalon: it is composed
of the basiccipital, exoccipitals, and superoccipitals, and, in general anatomy, forms the neural arch of the occipital vertebra.

occipital vertebra.

Epenceph'alon, n. [Gr.] (Anat.) The hindmost of the four primary divisions or segments of the brain, including the medulla oblongata, pons varolii, cerebellum, and fourth ventricle.

Epenet'ic, a. [From Gr. epainos, an encomium.] Laud

Eponevie, a. [From Gr. cpassos, an encomum.] Lan atory; panegyritic.

Epon'thesis, n.; pl. Epextheses. [Gr.] (Gram.) figure by which one or more letters are inserted in the middle of a word; as in the Latin retutil, for reduit. Brande

Epenthet'ic, a. Inserted in the middle of a wor

Epenthet'le, a. Inserted in the middle of a word.
Epergue, (epārn',) n. [Fr.] An ornamental stand for a
large dish in the centre of a table.
Eperies, (epere-es), a royal free town of Hungary, on
the Tarcza, 140 m. from Pesth; pop. 10,000.
Epernay, (a'per-nai,) a town of France, dep. Marne,
15 m. from Rielms. It is the chief entrepôt for the
Champagne wines. In it is the great manufacturing
house of Most and Chandon, whose vaults measure
more than 3 miles in extent, and contain, at some perioids, as many as 2,000,000 bottles of Champagne. Pop.
8,720.

Signature of Guerra of Henry III., who loaded him with honors and titles. He reluctantly recognized them 1.554. He was of an ancient family of Languedoc, and became the favorite of Henry III., who loaded him with honors and titles. He reluctantly recognized Henry IV., but served on his side in the civil war, and took several important towns for him. He was present at the asassination of the king, and did not escape suspicion of being privy to it; but the proceedings commenced against him were stopped, the regent, Mary of Medicis, who owed her appointment to him, taking his part and maintaining him in his offices. Louis XIII. made him governor of Guienne, but he carried his insolence and love of display so far that it was necessary to recall him. It was Epernon who assisted Mary of Medicis to escape from her confinement at Blois in 1619. D. 1645. Epeus, the son of Panopeus, who was the fabricator of the Lamous wooden horse which proved the ruin of Troy.

Epexege'sis, n. [Gr.] (Rhet.). A full explanation; exegesis.

Epexege'sis, n. [Gr.] (Rhct.) A full explanation; exegens.

Epexeget'ical, a. Explanatory; exegetical.

Ephan, Ephann, n. [Heb.] A Hebrew measure containing about 4-9th bushel (English).

Ephem'era, n. [Fr. ephémere, from Gr. ephémeron—epi, and hèmera, a day.] One of the Ephemerian, q. v.

Ephem'eral, a. Continuing or existing one day only; beginning and ending in a day; diurnal; short-lived; existing or continuing for a short time only.

—n. A thing very short-lived; an ephemeral plant or production.

Ephemi'eram, n. An ephemera. See Ephemerics.

Ephem'eran, n. An ephemera. See EPHEMERIDE. Ephemerides, n. pl. (Zozi.) The Day, fly, a family of insects, sub-order Neuroptera. They have received their name from the brief duration of their existence

their name from the brief duration of their existence in the perfect state, in which, very unlike the dragon-flies, they are believed to take no food, merely propagating their species, and dying. From the season of the year in which they begin to be seen, some of them are also called MAY-FLY. The larve and pupe are aquatic, and in these states the E. have a much longer life than in their perfect state.

their perfect state, extending even to years. The larvæ y ears. The larves and pupes are suffi-ciently voracious. The abdomen of the larva is furnished on each side with a set of leaflets, which serve instead of gills for respiration, and are also used in loco-motion, although there are six feet attached to the tho-racic segments. The



racic segments. The pupse differ little from the larvae, except in having rudimentary wings enclosed under scales. Both larvae and pupse have the abdomen terminated by two or three jointed filaments, which the perfect insect also has, sometimes, very long. The body of the perfect insect is soft and slender; the wings resemble in form those of dragon-files, but are soft and filmy; in repose they are elevated vertically above the body; the second pair of wings are much smaller than the first, and in some species are altogether wanting; the organs of the mouth are so soft and small as not easily to be discerned, and to be apparently unfit for any kind of of the mouth are so soft and small as not easily to be discerned, and to be apparently unfit for any kind of use. E., in their larva and pupa states, live chiefly under stones in water, or in burrows which they make in the banks of streams. When ready for their final change, they creep out of the water to undergo it on some plant or other object by the water-side, generally towards sunset on some fine day of summer or autumn. After having attained their winged state, however, they cast off a complete slough or envelope, so perfect, that it ex-hibits even the limbs, abdominal filaments, and anten-nse; and these "ghost-like exuvise" are sometimes so

abundant in the neighborhood of streams, as to cover in "a pearly layer" the last and basket of the angler. The multitudes of E. are often very great, filling the air as a cloud; nay, so abundant are they at times, that their bodies have been known to cover the ground in certain districts of France, and have been gathered from particular spots in cart-loads to be used as manure. Ephrem erfs, n.; pl. EPHEMERIDES, [Gr. See EPHIMERL] A journal or account of daily transactions; a diary.—An astronomical almanac, or a table which exhibits the state or positions of the heavenly bodies at noon, for a number of successive days.—A collective name for reviews, magazines, and all kinds of periodical literature. Ephremerist, (efem'e-rist,) n. One who studies the diurnal motions and positions of the planets; one who practices astrology.—A journalist; one who keeps an

practises astrology. - A journalist; one who keeps an

ephemeris.

Ephemicson, n.; pl. EPHEMERA. [Gr.] An insect having a mere daily existence; an ephemera; — hence, by implication, applied to events, &c., of brief or momentary duration.

Ephesiam, (c-fē'shan,) a. [Lat. Epherius.] (Geog.) Pertaining, or having reference to the city of Ephesus, in Asia Minor.

—n. A native or denizen of Ephesus.

—n. A native or denizer of Ephesus.
Ephesians, (Epistle of Paul to the,) (c-fe-zhdns.) (Scrip.) The fifth in numerical order of the fourteen epistles of St. Paul contained in the canon of the New Testament. The principal fathers of the early Church are unanimous in favor of the genuineness and Church are unanimous in favor of the gennimeness and canonicity of this book. Much controversy, however, has been subsequently carried on as to whether it was addressed to the Ephesians, from the omission of the words "to the Ephesians" in a few of the ancient MSS, and the assertion of Marcion, a heretic of the second century, but whose testimony is of no weight, that it was addressed to the Laodiceans. Others, again, regard it as a cyclical epistle addressed to no particular church, but to all, though Ephesus may have been the chief. Though the testimony against the received opinion were much stronger than it really is, it is not a matter of great importance; for what was addressed to no was intended for all. It is generally believed to have been written about the year 61 a.D., during the early part of the apostle's first imprisonment at Rome. It is one of the richest and most valuable of the epistles.

Eph'esitle, n. (Min.) A pearly-white variety of Margorium of the control of the sum of the control of the co

Eph'esite, n. (Ain.) A pearly-white validity of mandarity, q.v.

Ephesus, (ef'e-sus.) s famous city of Asia Minor, now in ruins, near the modern village of Ayasalouk or Aissaluk, about 38 m. S.S.E. of Smyrna. It was the ancient cap. of Ionis, and had one of the seven Christian churches founded by the apostles. Its temple, dedicated to Diana, was considered one of the seven wonders



Fig. 949. - SITE OF EPHESUS.

of the world. Its dimensions were 425 feet long and 200 broad. The roof was supported by 127 columns, sixty feet high, which had been placed there by as many kings. Of these, 36 were carved in the most beautiful manner, one of which was the work of the famous Scopas. This celebrated building was not totally completed till 220 years after its foundation. Ctesephon was its principal architect. The riches which were in the temple were immense, and the goddess who presided over it was worshipped with the most awful solemnity. It was burnt on the night that Alexander was born (see ERATOSTRATUS), but soon after it rose from its ruins with greater splendor and magnificence. E. for some time greater splendor and magnificence. of the world. Its dimensions were 425 feet long and ERATOSTRATUS), but soon after it rose from its rulns with greater splendor and magnificence. E for some time bore the name of Arsinoë, in honor of the wife of Lysimachus: but it was again known by its old name. Some have given the name of Ajasaloue to what they conjecture to be the remains of E. The Ephesians were much addicted to the use of spells and incantations; hence the words litera Ephesia are applied to letters supposed to possess such magical powers as easily to enable persons, by their use, to obtain their wishes.

Ephisites. n. [Gr.] The nightmare.

Ephisites. n. [Gr.] The nightmare.

Ephispium, n. [Gr. ephippion, a saddle.] (Anat.) See SELLA TURCICA.

Epher, (efor.) n. [Gr. ephoros.] (Greek Hist.) One of a

See Sella Turcica.

Ephor. (\*f'or.) n. [Gr. ephoros.] (Greek Hist.) One of a class of magistrates common to many of the Dorian states of Greece, but more particularly known in reference to the political constitution of Sparta, where the E. held the supreme power in the state. The Spartan E. were five in number, and were elected annually from

phod. [Heb, a covering.] Among the ancient Jews, it was one of the essential articles of the priest's official dress. It was an

two shoulders. It was made of plain linen, except that of the high-priest, which was embroidered with various colora. Properly, according to the law of Moses, the ephod was to be wornonly by the high-priest: by the high-priest; but it subse-quently came to be



Fig. 950.

quently came to be in co m mo n use among the pricethood, and even David, when bringing the ark back to Jerusalem, appeared in one. The E. was regarded by the Jews as a sacred object, and sometimes received divine homage. A description of the E of the high-priest is given in Exadus xviii. 6, et seq. Eph'oral, a. Relating or pertaining to an ephor. Eph'orality, a. Term of office of an ephor. Eph'ralim, in Yeansyleania, a post-borough and township of Lancaster co., about 14 miles N.E. of Lancaster; is a popular summer resort, and contains the monastery of the German Seventh Day Baptista. Pop. of borough, about 2,100; of township, 4,800.
Eph'rality, in New York, a post-town of Fulton co. Epi'c. Ep 'leal', a. [Fr. épiue; Lat. epicus; Gr. epikos, from epos, a soug.] (Lit.) Narrative; containing narration; rehearsing; heroic; relating to heroic poetry or poems. in common use

rom pos, a song. [ (M.) Narrauve; containing narration; rehearsing; heroic; relating to heroic poetry or poems.

"Homer's name shall live in spic song." — Dryden.

"Epic, or Epic Ibetry, is a kind of poetry which has outward objects for its subjects, and is thus distinguished from lyric poetry, which desis with the inner feelings and emotions of the mind. The distinction is general, for there are few productions to which it can strictly apply; but they belong to the one class or the other, according to the predominating character. As in the individual man, so with the human race, the mind is objective before it is subjective; it observes external objects before it turns its thoughts in upon itself; and hence we may conclude that the E. was the earliest species of poetry. The earliest specimens of this form of art probably consisted of simple tales rhythmically arranged, and recited to a very simple musical accompaniment. The longer and more artistic epic poems, however, embrace an extensive series of events and the actions of numerous personages. The epic poetry of the early Greeke naturally divides itself into two classes, — the heroic or romantic epos of Homer, and the hieratic epos of Hesiod, — the one dealing with the political, the other with the religious, life of the Greeks. The Iliad and Odyssey of Homer present us with the finest specimens of this class of poetry that have ever appeared. The sacred poetry. Hesiod partakes very much of a lyrical character. The Exect of Virgil is not equal to the Iliad of Homer present us with the finest specimens of this class of poetry that have ever appeared. The sacred poetry of lenguage and arrangement than on anything in the story. The greatest E of modern times is the Furnatise Lost of Militon. Dante's Dirine Consely, however sublime in style, is destitute of that unity of event or action necessary to constitute a great work of this than the production of this species of composition. The epic poem is of all poetical works the most dignified, and at the same time t class. The Jerusalem Delivered of Tasso is regularly and stricty an E, and adorned with all the beauties that belong to this species of composition. The epic poem is of all poetical works the most dignified, and at the same time the most difficult in execution; and hence it is that so very few have succeeded in the attempt to produce a really great E. "To contrive a story which shall please and interest all readers, by being at once entertaining, important, and instructive; to fill it with suitable incidents; to enliven it with a variety of characters, and of descriptions; and throughout a long work to maintain that propriety of sentiment, and that elevation of style, which the epic character requires,—is unquestionably the highest effort of poetical genius."—Blair's Retoric. Epical'y X, n. (Bot.) The term applied by many botanists to a circle of bracts appearing immediately below the calyx or outer covering of the flower. It is seen in the mallow tribe, and in many plants of the pink and rest tribes. Though a distinct name has been given to this whorl of leafy organs, it properly comes under the denomination of involucre, q. v.

Epican'thuss, n. (Gr. epi, and kanthos, the angle of the eye.

Epican'thuss, n. (Gr. epi, and kanthos, shrimp.) (Conch.) A parasitic crustacean found upon shrimps.

the body of the ruling caste, and not from any particular tribe. Besides their judicial authority, they exercised a control over the functions of the kings and the senate, and sometimes recalled the former from their foreign expeditions, and demanded an account of their proceedings. The executive power likewise was almost wholly in their hands.

Ephed. [Heb., a covering.] Among the ancient Jawa, it was one of the essential articles of the priest's official dress. It was one of the essential articles of the priest's official than elected some arrangement in the order of reading them absolutely necessary. Thus, besides the litad and Odyszey of Homer, there were five other epic poems relating to the legend of Troy alone, two giving the adventures of Herscles, with many others which they professed to narrate; and the whole collection received the name of the Epic Cycle. This cycle comprised the Homeric poems as well as all others; but in assumed as the former were generally spoken of by themselves, the phrase "cyclic poet" came gradually to express inferiority. (Grote's History of Greece, Part I., xxi.)

Epicycleic, (p'i-i-i-i-i), n. [Gr. epi, and kyklos, a circle.]

Lastron.) A little circle revolving while its centre moves round in the circumference of a greater circle.

Lastron.) A little circle revolving while its centre moves are then skin, being far less liable to alteration than either mesocarp or endocarpor endocarpor the document of the executive power likewise was almost wholly in their hands.

Epicycleid, n. [Fr. epicycloid, n. [Fr. epicycloid, nr man and the executive power likewise was almost which treated of the mythological and heroic ages of reading shall be alterated and heroic ages of reading shall be alterated and the whole collection of reading the adventures of the secutive power fire of the secutive power in the order of reading shall be alterated and the value power lasting of two and educa, shape, [Geom., 18.] (Geom., 18.] (Geom., 18.] (Geom., 18.] (Geom., 18.] (Geom., 18.] (Geom., 18.] (Geo

ch. xxi.)

Ep'icede, n. [Gr. epikedeion, an elegy.] An elegy; a

dirge; a funeral-song. **Epice'dial, Epice'dian**, a. Dirge-like, elegiac; funereal.

funereal.

Epice'dium, n. Same as Epicede, q.v.

Epicedium, n. Same as Epicede, q.v.

Epicene, (rp'i-sėn.) a. or n. [Fr.; Gr. epikoinos — epi, and kvinos, common, probably from zun, Sansk. sum, together with.] Common to both sexes: —a term applied to such Greek and Latin nouns as have only one form of gender, either the masculine or feminine, to indicate animals of both sexes.

Epiceras'tic, a. [Gr. epikerastikos.] Assuaging; emollient

Epiceras'tic, a. [Gr. epicerastikos.] Assuaging; emollient.

Epichire'ma, n.; pl. Epichirastikos.] (Rhet.) A syllogism in which the major and minor premises bring with them their own proof.

Epicel'ic, a. [Gr. epi, and kolon, colon.] (Anat.) Lying over and about the colon.

Epicetian, (epiche'shan) a. [Gr. epiktetos.] Relating to Epictetia (q. v.), or to his philosophy.

Epicte'tus, a Phrygian philosopher of the Stoic school, was n. at Hieropolis, and flourished in the 1st cent. He was originally the slave of Epaphroditus, the freedman of the Emperor Nero, and though expelled from Rome by Domitian, he returned after that emperor's death, and gained the esteem of Adrian and Marcus Aurelius.

E's Enchiridion is a faithful picture of the Stoic philosophy. He supported the doctrine of the Immortality of the soul, but declared himself strongly against suicide. The style of E is concise, devold of all meretricious ornament, and full of energetic counsels and useful maxims. The emperor Antoninus thanked the gods he could collect from the writings of this philosopher that wherewith to conduct life with honor to himself and advantage to his country. E's favorite maxim was, "Bear and forbear."

Epiceme, n. [Lat. Epicurus; Gr. Epikouros.] A foliower of Epicurus, tut more justly a follower of the content that where the to Epicurus;—hence, a man devoted to sensual enjoyments; one who indulges in the luxuries of the table; a gourmand; a gourmet; a voluptuary; a lover of good eating.

"Then mingis with the English epicures."—Shaks.

"Then mingle with the English epicures."

Epicureau, (cp-i-kū'rē-an.) a. [Lat. Epicureus.] Per-taining to Epicurus, or to his philosophy. — Also, luxu-rious; given to self-indulgence and personal enjoyments; given to luxury; contributing to the pleasures of the table.

"What a damn'd epicureau rascal is this!" - Shake

. A follower of the doctrines of Epicurus.

-n. A follower of the doctrines of Epicurus.

One who is devoted to the pleasures of the table.

Epicureamism, n. The doctrines enunciated by Epicurus; also attachment to such doctrines.

Epicureams, n. Philos.) A sect of philosophers founded by Epicurus of Samos, who established a school at Athens, B. C. 308, and continued to teach until his death, B. C. 270. See Epicurus.

Epicuream doctrines.—Luxury sensual enjoyments; indulgence in gross pleasures; voluptuousness.

"Some good men have ventured to call munificence... a piece of pricuriem." — Calamy.

Epicuream. - Calamy.

"Some pood men have ventured to call munificence... a piece of cpicurism."—Columy.

Ep'icurism."—Columy.

Ep'icurism."—Columy.

Ep'icurism."—Columy.

To profess attachment to the doctrince held by Epicurus.—To gourmandize; to feed like an epicure; to live voluptuously.

Epicurems, a celebrated Greek philosopher, founder of the Epicurean school, was B. in Samos, B. c. 342. His father, Nescles, was an Athenian colonist in that island. Epicurus studied philosophy at Athens, taught it at Mitylene and Lampeacus, and in B. c. 306 settled at Athens, and in a garden which he bought there opened his school of philosophy. The fundamental doctrine of Epicurus in morals is, that pleasure is the sovereign good. He taught that this must be sought by the aid of reason; that prudence is the first of virtues, and that moral excellence is only of value as conducing to pleasure. He denied the immortality of the soul, and asserted the existence of the gods, their perfect repose, and their indifference to human affairs. In physics he adopted the atomic theory, applying it to the gods their perfect repose, and their indifference to human affairs. In physics he adopted the atomic theory, applying it to the gods their perfect repose, and their indifference to human affairs. In physics he adopted the atomic theory, applying it to the gods them selves. Although his system too easily lent itself to the justification of a sensual life, E obtained the praise even of his adversaries for the simple, pure, and manly life he himself led. His works are lost, but some fragments of his book On Nature were discovered at Herculaneum. The great poem of Lucretius, De Rerum Natura, is an exposition of the system of this great philosopher. D. s. c. 270.

assembled.

Epide'étie, Epidie'tie, a. [Gr. epideiktikos.] Tending to exhibit by form or force of language.

Epidem'ie, Epidem'ieal, a. [Fr. épidemque, from Gr. epidemios—epi, and demos, the people. See Dimogracy.] Affecting, or common to, a whole people; diffused throughout a community; universal; general.

"They're citizens of Scotland, a nation epidemical."—Cleveland.

"They're citisens of Scotland, a nation opidemical." — Classiand.—That falls at once upon a people, as a plugue; attacking many persons at the same time or in the same season, as a disease; generally prevailing; affecting great numbers; as, an epidemic evil, revolutionary doctrines are epidemical, &c.
—n. (Med.) An infectious or contagious disease, which attacks many people at the same period and in the same country, "rages for a certain time, and then gradually diminishes and disappears, to return again at periods more or less remote." Thus Asiatic cholers, influenza, scarlet fever, measles, &c., frequently appear as epidemics; that it, are found to prevail in certain parts of a country, while the adjacent districts are free from their ravages. It is essential to the medical notion of an epidemic, that it be of a temporary, in contradistinction to demic, that it be of a temporary, in contradistinction to a permanent character, though isolated cases may occa-sionally be observed in districts once visited by the E. It differs from endemic, inasmuch as the latter class of diseases are of a more permanent nature, and prevail only among certain people and in certain districts. See BLACK DEATH, CHOLEBA, PLAGUE, SMALL-FOX, YELLOW

BLACK DEATH, UHOLERA, a manufacture, Fryer, &c.

Epidem'ically, adv. After the manner of an epidemic.

Epidem'icalness, n. State of being epidemical.

Epidemiolog'ical, a. Relating to epidemiology.

Epidemiol'ogy, n. [Gr. epi, demos, people, and logos, speech.] (Med.) That department of medical science devoted to the investigation and treatment of epidemical disease.

disease.

Epidemog'raphy, n. [Gr. cpi, demos, people, and graphcin, to write.] (Med.) A history of, or treatise upon, epidemic diseases generally.

Epidemy, n. [Fr. cpidemic; Gr. cpidemia.] (Med.) Same as EPIDEMIC, q. r.

Epidem'drumn, n. [Gr. cpi, and dendron, a tree.] (Bot.) A genus of plants, order Orchidacca. There are nearly 300 species that live parasitic upon the bark of trees, chiefly natives of S. America. A great many are cultivated in hot-houses for their beauty and the bizarre appearance of their flowers.

300 species that live parasitic upon the bark of trees, chiefly natives of S. America. A great many are cultivated in hot-house for their beauty and the bizarre appearance of their flowers.

Epiderm, a. See Epiderms.

Epidermal, a. Pertaining to the cuticle of the skin, or to the bark of a tree.

Epidermal Tissue. (Bot.) The term applied to the external layer of cells in flowering and the higher flowerless plants. This layer may commonly be readily separated as a distinct membrane or skin, as its component cells differ in shape and in the nature of their contents from those cells placed beneath them. This tissue consists of two parts: namely, of an inner portion, naually called the epidermis, and of an outer thin pellicle, to which the name cuticle is given. Carpenter, and some other authors, make use of these terms in precisely the reverse sense, calling the external pellicle the epidermis. Following Prof. Bentley, we will employ the terms as generally understood. The epidermis, then, consists of one or more layers of cells, firmly united together by their sides so as to form a membrane. These cells are generally of a flattened tabular character; but they vary much in their outline. Ordinarily, in European plants, the epidermis is formed of but one row of cells; but in tropical plants, two, three, or more rows are common. The upper walls of the cell are generally much thickened by secondary deposits, and this thickening is especially evident in leaves of a leatherty or hardened texture, as those of the oleander, box, and holly. The epidermis covers all parts of the plants upon which it is found, that are exposed directly to the air, except the stigma: and it is in all cases absent from those which live under water. In the fungi, alge, and lichens, it is altogether water. In the fungi, alge, and lichens, it is altogether water. In the fungi, alge, and lichens, it is altogether water, but the appendages. It has no cellular structure, but its a perfectly homogeneous membrane. A membranous layer, resembling, if no



common form is oval, but they are sometimes seen round or square. They are either placed singly upon the epidermis at regular or irregular distances, or in clusters, with spaces quite free from them intervening. The number of stomata also varies considerably in different plants and different parts of the same plant. We give the numbers counted in a square inch upon the upper and under surfaces of the leaves of a few plants, to show the extent of this variation: — Mistletoe, upper surface 200, under surface 200; peony, upper surface none, lower surface 13,790; house-leek, upper surface 10,710, lower surface 13,790; house-leek, upper surface lower surface 160,000. Stomata exist more or less upon all flowering plants, but are absent from the lower order of flowerless plants. On floating leaves they are found only upon the plants. On floating leaves they are found only upon the

plants. On nonung reason and a super surface.

Epiderm'stoid, Epiderm'oid, a. Belonging to, or resembling, the epiderm.

Epiderm'cous, Epiderm'ie, Epiderm'idal, a. Pertaining to the epidermis; recembling the bark or

piderm'is, n. [Gr., from epi, and derma, the skin.] (Anat.) The cuticle or scurf-skin of any animal. — See Skin.

SEIN.

(Bot.) See EFIDERMAL TISSUE.

Epidic\*tic, a. Same as EFIDERMATOID, q.v.

Epidic\*tic, a. See EFIDECTIC.

Epidid\*tymis, n. [Gr.] (Anat.) A body formed by convolutions of the commencement of the sperm-duct or cas deferens, lying upon the testicle, and more or less closely attached to that gland.

Epidic\*te, n. [Fr., from Gr. epidoris, because the base of the primary form undergoes an increase in some of the secondary forms.] (Min.) A mineral which has received several names. It consists essentially of silicate of alumina with silicate of lime (Zointe or calcareous Epidote), or with silicates of lime and of protoxide of iron (Pistacite or calcareo-ferruginous Epidote), or with silicates of iron and manganese (Manganesian Epidote). Its color is usually various (Manganesian Epidote). Its color is usually various shades of green, yellow, and red. It occurs in granite and other igneous rocks, and in various cystalline slates. Epidot'ic, a. Resembling, pertaining to, or containing

epidote. Epiger'a, n. [Gr. epi, upon, and ge, the earth; from its prostrate habit.] (Bot.) A gen. of plants, ord. Ericacce. They are perennial suffruticose, trailing plants; leaves evergreen. The species E. repens is the well-known Trailing Arbutus, or May-flower, found in the woods from Newfoundland S.W. through Pennsylvania to Kenterly.

tucky.

Epige'ous, Epige'al, Epige'ous, a. [Gr. epigais.] (Bot.) Growing upon, or in close proximity to the earth.

Emigrac'trie, a. [Fr. epigastrique;

Epigas'trial, Epigas'tric, a. [Fr. epigastrique; Gr. epi, and gaster, the belly. See Gastaic.] (Anat.)
Pertaining to the upper part of the abdomen; as, the

epigastric arteries.

Epigas'trium, n. [Lat., from Gr. epigastrion.] (Anat.)
The upper part of the abdomen; the epigastric region,

and upper part or the abutomen; the epigaetric region, or central portion of the upper part of the belly.

Epigae'trocele, n. [Or. epi, upon, gastre, the stomach, and kele, a tumor.] (Med.) A hernia of the stomach, or of the parts near it, whether formed by the stomach or not.

Epige'al, a. Same as Epigeous. Ep'igene, n. [Gr. epigatos.] (Astron.) Same as Perigera.v. Ep'igene, n. [Gr. epigenes.] (Crystall.) Noting a form not natural to a substance,

(Geol ) Formed on the surface of the earth : - in con-

(Geol.) Formed on the surface of the castal.—In contradiction to hypogene.

Epigen'esis, n. [Gr. epi, and genesis, generation.]
(Physiol.) A formation upon, or in addition to, previously existing parts. The word is applied in physiology to that theory of new formations in organized ology to that theory or new formations in organized beings which supposes them to spring from superadded centres of vital activity; as opposed to the theory, which presumes that the new is formed by a development or modification of the old structure. See Ovum.

Epigenesist, n. One who advocates the theory of

Epige'ous, a. Same as Epigeous, a. v

Epigeous, a. Same as Ericagous, q. v.

Epiglot'tie, a. Relating or pertaining to the epiglottis.

Epiglot'tis, Epiglot, n. [Gr. epi, and glöttis, the mouth of the windpipe, from glötta, the tongue, which closes upon the superior opening of the larynx; its upper extremity is loose, and elevated by its cown elasticity; it closes the aperture of the larynx when the tongue is drawn back in the act of deglutition. Its base has a literapeatous strephens to the base of the tongue.

tongue is drawn back in the act of deglutition. Its base has a ligamentous attachment to the base of the tongue, the thyroid cartilage, and the co hyoides.

Epigomi, n.pl. (Greek Hist.) The sons and descendants of the Grecian heroes who were killed in the first Theban war. The war of the Epigoni is famous in ancient history. They resolved to avenge the death of their fathers, and marched against Thebes, under the command of Thersander. The two armies met and engaged on the banks of the Cephissus. The fight was obstinate and bloody, but victory declared for the Epigoni, and some of the Thebans fied to Illyricum with Leodamus, their general, while others retired into Thebes, where they were soon besieged, and forced to surrender.

where they were soon besieged, and forced to surrender. Ep'igram, n. [Fr. épigramme, from Gr. epigramma, an inscription.] This term, as shown by l.- derivation, was originally applied to the inscriptions on the tombs and monuments of ancient Greece. They were generally written in verse, and showed great simplicity of style. Usually they were either dedicatory, descriptive, ama-tory, or elegiac. They were seldom humorous, and their chief merit consisted in the justness of a single thought

conveyed in harmonious language. The ancient Romans, in their acceptation of the term E., seem to approach neerer to the idea of modern E. Catullus and Martial were among their most famous epigrammatists. In modern times an E is considered to be a short poem usually consisting of two to eight lines, in which some striking or ingenious thought is expressed; whether it be serious or humorous is a matter of indifference. The French have always excelled in this kind of writing. The Germans have usually combined moral proverbs with their repigrams; but those of Schiller and Goethe are generally satirical. Pope, Byron, Burns, and Moore have written epigrammatic satire with the greatest success.

Epigrammat'ie, Epigrammat'ieal, a. [Fr. cpigrammatique.] Writing epigrams; dealing in epigrams; as, an epigrammatic poet.

Suitable to epigrams; belonging to epigrams; concise; pointed; polgnant; as, epigrammatic wit, an epigrammatic style.

Epigrammat'ically, adv. In an epigrammatic

manner.

Epigram'matist, n. [Fr. epigrammatiste.] One who composes epigrams or deals in them.

Epigram'matise, v. a. [Gr. epigrammatisē.] To make an epigram on; to represent or express by epigrams. grams.

Epigram'matizer, s. One who assumes a concise

Epigram matther, a. One who assumes a concise, pointed style of writing.

Ep'igraph, n. [Gr. epigraphē—epi, and graphē, to write.] An inscription on a statue or building.—(Lit.) A citation from some author, or a sentence framed for the purpose, placed at the commencement of a work or of its separate divisions or chapters. (Sometimes termed

Epigraph'ics, n. sing. The art or practice of using

Epigraph'ics, n. sing. The art or practice of using or making epigraphs.

Ep'igraphsst, n. One versed in epigraphy.

Ep'igraphy, n. The science of inscriptions.

Epigymous, (epigremu,) a. [Gr. epi, upon, gane, fomale.] (Bot.) A term applied to the stamens and corolla when they appear to arise from the summit of the ovary, in consequence of the adherence of the calyx to that organ. Examples may be seen in the campanula, carrot, and ivy. The name Epigrapa has been given to a subdivision of the Calycifora, and also to a subdivision of the Calycifora, consequently, inferior.—See classification, in art. Botany.

Epillemsy, n. [Gr. epilepsis, from epi, and lambano.]

classification, in art. BOTANY.

Ep'llepsy, m. [Gr. epilepsis, from epi, and lambano, I seize.] (Med.) A form of disease which receives its name from the suddenness of its attack. It is also called the falling sickness, from the patient, if standing, sudenly falling to the ground. By the ancients it was called the sacred disease, from being supposed to be due to the influence of the gods or evil spirits. The attack is usually sudden, without any warning. The patient may be in his ordinary health, engaged, perhaps, in his usual occupation, when all at once he utters a piercing scream, and falls to the ground. Immediately thereafter the face becomes violently distorted, the head is usually drawn to one side, the eyes are set and staring, or roll drawn to one side, the eyes are set and staring, or roll wildly about, the color of the skin becomes dark and livid, and the veins swollen and turgid; there is frothing at the mouth; the muscles of the lower iaw act violently producing gnashing of the teeth, and frequently the tongue is thereby grievously injured; the arms are some-times thrown violently about, and the lower limbs may times thrown violently about, and the lower limbs may be sgitated in a similar manner, while the fingers with great power clutch at whatever comes in their way. The breathing is at first heavy and difficult, but afterwards it becomes short, quick, and stertorous, and is often accompanied with sighing and meaning. One side of the body is commonly more agitated than the other. After a longer or shorter period, the convulsive movements gradually diminish, and the patient seems to recover a faint glimmering of consciousness; but the look which he casts around is stupid and heavy, and he goes off into a lethargic sleep, from which he does not awake for some hours. Commonly there is no consciousness of into a lethargic sleep, from which he does not awake for some hours. Commonly there is no consciousness of anything that occurred during the paroxysm. On coming out of the fit, there is generally headache, and always languor, and it may be days before he fully recovers from the effects of the attack. The duration of the paroxysm is usually from 5 to 10 minutes; but sometimes several attacks follow each other, and it may be protracted for hours. This is a severe form of E; but requently it is less severe, consisting merely of loss of consciousness, slight rigidity, and the convulsion of a few muscles, and lasting only for aminute or two. Occasionally death takes place during the paroxysm; but generally it is attended with little danger, unless the patient may injure himself by falling in some dangerous position. During the attack the principal thing is to see that the patient does not injure himself,—especially, a piece of cork or other gag ought to be placed between his teeth, to prevent injury to the tongue; the dress should be loosened about the neck and chest; the head, if possible, a little raised, and a free circulation of air minimum of the return of the fit is avecediately vericus. should be loosened about the neck and chest; the head, if possible, a little raised, and a free circulation of air maintained. The return of the fit is exceedingly various in different individuals; several years, in some cases, intervening between the attacks, while in others they may occur every month, week, or day. When neglected, they usually become more and more severe, or recur at shorter intervals. Repeated attacks of this disease, in general, soon produce a marked change in the mental and physical character of the individual. There is a gradual diminution of the active powers, purpose becomes irresolute, the spirits are depressed, and the memory falls; the features become coarse, heavy, and inexpressive, and the look vacant. The most frequent, perhaps, of the

consequences of confirmed E is insanity, either in the form of acute mania or monomania following the attacks, or of gradual imbecility, without any acute seizure. Though the fit, as we have said, usually comes on suddenly, yet there are sometimes distinct warnings of its approach. These vary in different individuals, and may be lowness of spirits, irritability, disziness, noises in the ear, floating specks before the eyes. There is, however, a perticular sensation which is said to be felt by some immediately before the attack, and which is known as the surve opileptica. It is variously described as resembling a current of air, a stream of water, or a slight convulsive tremor, commencing in one of the limbs, and proceeding upwards to the head, when the patient is deprived of all consciousness. E is commonly divided into idiopathic, when it is a primary disease, depending on some ing upwards to the head, when the patient is deprived of all consciousness. E is commonly divided into idiopathic, when it is a primary disease, depending on some affection of the brain; and sympathetic, when produced by an affection in some other part of the body,—as the stomach, bowels, liver, circulating system, £c. Among the causes which give rise to E are external injuries done to the brain by blows, wounds, fractures, and the like, or internal injuries by water on the brain, tumors, concretions, and polypi. Violent affections of the nervous system, sudden frights, strong mental emotions, acute pains in any part, worms in the stomach or intestines, teething, suppression of accustomed evacuations, £c. are causes which also produce E. Sometimes it is hereditary; at other times it arises from a predisposition occasioned either by plethora or a state of debility. When it arises from hereditary predisposition, or comes on after the age of puberty, or when the attacks are frequent and of long duration, it is usually difficult to effect a cure; but occurring in early life, and occasioned by worms or any other accidental cause, it may, in general, be remedied with ease. Where the disease can be traced to any special exciting cause,—as injuries of the head, worms, teathing, £c.,—the treatment should be first directed to its removal. Where, as is often the case, a plethoric state appears to occasion the disease, the patient is to be restricted to a low diet, frequent purgatives are to be exhibited, and everything avoided that may determine the blood to the head; and to counteract such a tendency, occasional cupping, blisers, issues, £c., may be useful. If, on the contrary, there the disease. The patient is to be restricted to a low diet, frequent purgatives are to be exhibited, and everything avoided that may determine the blood to the head; and to counteract such a tendency, occasional cupping, blisters, issues, &c., may be useful. If, on the contrary, there are marks of inantition and debility, a generous diet, with tonic medicines and other means of strengthening the system, will be proper. In this disease great care is necessary in the matter of diet, and moderation in quantity and simplicity in character are material points. When the appropriate remedies are judiciously employed, and the proper regimen strictly adhered to, E. is often permanently cured, and the suffering is greatly mitigated even in those forms which do not admit of cure. Epileptite, Epileptical, a. [Gr. cpilepiiva; Fr. cpilepiique.] Pertaining, or relating to epilepey, or the falling-sickness; saffected with epilepsy; partuking of the nature and character of epilepsy.

Epileptie. n. One who suffers from epilepsy.— A medicine expressly designed to cure epilepsy.

Epileptionm, a. Having the form or appearance of epilepsy.

Epileptionm, n. [Gr. cpi. upon, loboy, a pod, ion, a violet; a violet growing upon a pod.] (Bot.) A genus of plants, ord. Onagracca. They are perennial herbs with calyx-tube not prolonged beyond the ovary, limb deeply 4-cleft, 4-parted and deciduous; petals 4; stamens 8; anthers fixed near the middle; stigma often with 4 spreading lobe; ovary and capsule linear, 4-cornered, 4-celled, 4-valved; seeds indefinite, comose, with a tuft of long hairs. There are 5 American species, the principal of which are E angustifolium, known as the Willow-herb or Rose-bay, found in low waste grounds from Pennsylvania N. to the Arctic regions; wid E. coloratum, the Colored Epiloluium, found from British America S. to Georgia and W. to Oregon.

Epilogistic, a. [Gr. cpilogistics.] Pertaining to an epilogue; to the nature of an epilogue; cpilogistic.

Epilogistic, co. [Gr. cpilogistics.] Pertaining to an epilogue; to

(Rhet.) The closing or recapitulative part of a discourse: peroration.

Ep'iloguize, v. a. See Epilogize.
Epim'achus, n. (Zod.) A genus of birds, allied to
the Paradiscide, having, the Paradiscide, having, like them, a slender beak, but with velvety or scale-like feathers partly covering the nostrils, as in the Birds of Paradise. The plumage of E. magnificus (Fig. 951) is of the most gorgeous description. It is of a deep black, with the feathers magnificently glossed with various colors. It is a native of some of the islands in the Bastern seas. islands in the Eastern seas.

Epimen'idea, an epio
poetof Crete, contemporary
with Solon. He is reckoned one of the seven wise
man by those who evolude

Fig. 951.



EPIMACHUS MAGNIFICUS.

men, by those who exclude Periander from the number.
While he was tending his flocks one day, he entered Digitized by GOOGLE

into a cave, where he fell asleep. His sleep, according to tradition, continued for fifty-seven years, and when he awake he found every object so considerably altered, that he scarcely knew where he was. It is supposed that he lived 200 years. After death he was revered as a god by the Athenians. Lived in the 6th century B. C. Epime'eral, n. [Gr. cpi, and meros, a thigh.] Zoil.) That part of the segment of an articulate animal which is above the joint of the limb.

Epimeetheuus, (cpi-me'the-us,) one of the Oceanides, who inconsiderately married Pandora, by whom he had Pyrrha, the wife of Deucalion. He had the curiosity to open the box which Pandora had brought with her. (See Paxtora.) Epimeetheus was changed into a monkey by the gods, and sent into the island Pithecusa.

Ep'imal, a town of France, cap. dep. Vosges, on both banks of the Moselle, 3d m. S.E. co Nancy, 65 N.N.E. of Besancon, and 293 E.S.E. of Paris. It is a tolerably well-built and flourishing city, haying manufactures of embroidery, lace, pottery, paper, oil, &c. E. belonged to the divise of I corvine till 1670 when it was taken

well-built and nourishing city, haying manufactures of embroidery, lace, pottery, paper, oil, &c. E. belonged to the dukes of Lorraine till 1670, when it was taken by the French. Pop. 13,130.

Epimglette, (cp-in-glet',) n. [Fr.] (Mil.) The priming-needle of a gun of heavy callive.

Epimgletkam, a. [Gr. cpinikion.] Commemorating a victory; aa, an epimikion song.

Epimgettis, (cp-in-livius) n.; pl. Epinyettible. [Gr. cpinightis; Lat. epimgetis.] (Med.) A pustule at the corner of the eve.

consystes; Lat. episyetis.] (Med.) A pustule at the corner of the eye.

Epipet'alous, a. [Gr. epi, and petalon, a petal.] (Bot.)

Carried on the petals, as of a flower.

Epiphamius. (ep-i-fai'ne-us.) a Greek father of the church, who was born in Palestine early in the 4th century, and educated among the Gnostics in Egypt; after which he returned to Palestine and became the disciple of the monk Hilarion. He was chosen bishop of Salamis, in the isle of Cyprus, 367, and died in 403. Epiphanius was a man of some learning but little judgment, and he was a vehement opponent of Origen. He wrote a book entitled Pharaius against all heresies.

Epiphamy, (cpif'ū-ne.) n. [Gr. epiphamia, a manifestation.] (Eccl.) A festival of the Christian Church held on the 6th day of January, in order to celebrate the manifestation of Christ. In early times this festival probably commemorated the nativity of the Saviour, his manifestation in the flesh, and his manifestation to the Gettles. As a household festival, the E is better known by the name of king's festival, or of Twelfth-night (being

by the name of king's festival, or of Twelfth-night (being the twelfth night from the Nativity). The practice of choosing a king and queen in family merriments upon that night has been traced back to a similar custom ng the Romans during the Saturnalia.

among the homans during the Saturnaia.

Epiphe'guss, n. [Gr. pi, upon, phegus, the beech;
being supposed parasitical on the roots of that tree.]

(Bet.) A genus of plants, ord. Orobanchaces. The root
of E rirginiana is called cancer-root, from having been of E. rirginiana is called cancer-root, from having been frincipal ingredient in a once celebrated nostrum, called Martins cancers. It was the principal ingredient in a once celebrated nostrum, called Martins cancer-powder.

Eplphone'sma, n. [Gr.] (Rhd.) A striking exclamation which puts an end to a discourse or oration.

Eplphora, (epifo-ra.) n. [Gr.] (Med.) A disease occasioned by a superabundant secretion of tears.

(Rhd.) A word repeated with emphatic effect, at the end of a series of stanzas.

Epiphoe'phorite, n. (Min.) A variety of phosphate of lime, q.r.

Epipher'phorite, n. (Min.) A variety of pnospinate of line, q. c.

Epiphylicosperan'ous, a. [Gr. epi, phyllon, leaf, and sperma, need.] (Bot.) Presenting seeds on the back of the leaves, as certain ferns.

Epiphylicus, (\*p-1-fl/lus,\*) a. [Gr.] (Bot.) Something growing on a leaf.

Epiphyn'ical, a. Possessing the nature of an epiphysis.

Epiphysis. (\*pif'i-sis.) n. [Gr., an outgrowth.] (Anat.) A process of a bone separated at first by a layer of cartilage from that to which it is attached.

Epiphytal, a. (Bot.) Belonging to an epiphyte.
Epiphyte, n. (Gr. epi, on, and phyō. I produce.
(Bot.) A plant which finds a resting-place upon the surface of other plants, e.g., many mosses and orchids, as distinguished from parasites which draw sustenance from their foster-plants.

Epiphyt'ie, Epiphyt'ieal, a. (Bot.) Partaking of, or having, the properties or characteristics of an epi-

phyt'leally, adv. (Bot.) After the manner of an

pripays nearly, act. (Bot.) After the manner of an epiphyte.

Epipherevis., n. [Gr.] (Med.) Superabundance of blood in the arteries, &c.

Epipherevis., n. [Gr.] (Rhet.) A figure of speech seeking to convince the hearer by gentle repreach.

Epiphere, (e-pipi bea.) n. [Gr., epipioke.] (Rhet.) A figure of speech by which one aggravation, or striking circumstance, is added, in due gradation, to another: as, "He not only spared his enemies, but continued them in employment; not only continued, but advanced them."

usen."

Epiplecele, n. [Gr. epiplokčle.] (Med.) A hernia or rupture caused by a protrusion of the omentum. 
Epiplecie, a. Relating or pertaining to the omentum. 
Epipleon, (epiploon,) n. [Gr.] (Anat.) The caul or ownertum. 
See CAUL.

Extendible See CAUL.

Epipol'ie, a. (Optics.) Relating to epipolism.
Epipolism, n. (Optics.) See Pluorecree.
Epipolised, a. Presenting an epipolic aspect; as,

cian Illyria by the Ceraunian Mountains, and by the famous river Pindus (q. v.) from Thessaly. The river Achilon, also famous in mythological story, flowed through the limits of this prov. Here were also the celebrated temple and sacred grove of Dodona. Pyrrhus, king of Macedon, was a native of E., which country passed successively into the hands of the Romana, and the Turks. E by the Convention with Turkey, of May 24, 1881, was ceded to Greece.

Episcenium, (pri-sē'nēum.) n. [Gr. episkemion.] (Arch.) Among the ancients, the upper order of the secone in a theatre. See Procensium.

Episceneary, (e-pirko-pd-sc.) n. [Gr. episkemion.] or overseer.] (Eccl.) That form of church-government in which one order of the clergy is superior to another; as bishops to pricets and descons. Much discussion has taken place on the subject of episcopacy. Nothing conclusive can be gathered concerning it in the New Testament; but there can be no doubt that it existed universally in the Church from the earliest historic ages down to the time of the Reformation, and it is inferred, as no to the time of the Reformation, and it is inferred, as no change can be shown to have taken place, that the same constitution existed from the time of the Apostles. Presconstitution existed from the time of the Apostice. Pres-byterians and Independents argue, on the other hand, that, as there is nothing definite concerning it in Scrip-ture, Christians are left a discretionary power of model-ling the government of their church in such a manner as may seem to them most meet; and that every Chris-tian society has a right to make laws for itself, provided as may seem to them make laws for itself, provided these laws are consistent with charity and peace, and with the fundamental doctrines and principles of Christianity. "It cannot be proved," says Dr. Paley, "that any form of church government was laid down in the Christian, as it has been in the Jewish Scriptures, with a view of fixing a constitution for succeeding ages, and which constitution, consequently, the disciples of Christianity would everywhere and at all times, by the very law of their religion, be obliged to adopt. Certainly no command of this kind was delivered by Christ himself; and if it be shown that the Apostles ordained bishops and presbyters among their first converts, it must be remembered that deacons also, and deaconesses, were appointed by them with functions very desimilar to any which obtain in the Church at present. The truth eeems to have been that such offices were at first erected in the Christian Church as the good order, the instrucany which obtain in the Church at present. The truth seems to have been that such offices were at first erected in the Christian Church as the good order, the instruction, and the exigencies of the society at that time required, without any intention, at least without any declared design, of regulating the appointment, authority, or the distinction of Christian ministers under future circumstances." The power vested in the bishops or higher clergy differs very much among the different episcopal bodies. The Roman Catholic and the Greek churches, as also the Church of England, are episcopalia. Episcopali. a. I. Lat. episcopalia. Belonging to, or vested in bishops or prelates; as, episcopal authority.—Governed by bishops; as, an Episcopal Church. See PROTESTANT EPISCOPAL CHURCH.

Episcopa'lia, n. [Lat.] (Eccl. Hist.) A term signifying synodals or other customary payments from the clergy to their bishop or diocessan, which were formerly collected by the rural deans, and by then transmitted to the bishop. (Sometimes written Omera Episcopalia.) Episcopa'liam, a. Episcopal; relating or belonging to prelacy, or episcopal government.

—a. One who belongs to an episcopal church, or adheres to the episcopal form of church government, rules, discipline, &c. See Episcopacy.

Episcopa'liamism, n. The system of episcopal religion, or government of the Church by bishops; episcopacy.

Episcopally, adv. In an episcopal manner; by epis-

Episcopa' riamism, n. The system of episcopal religion, or government of the Church by bishops; episcopacy.

Epis'copally, adv. In an episcopal manner; by episcopal rule or authority.

Epis'copate, n. [Fr. episcopat, from L. Lat. episcopatus.]

A bishopric; the office and dignity of a bishop.—The order of bishops, taken collectively.

Episcopicide, n. [Lat. episcopus, and czedere, to slay.]

The act of feloniously killing a bishop.

Episcod'al. Episcod'ial. Episcod'ie, Episcod'eletal, a. [Gr. episcod'ial. E the main plot, but which is not essential to it. In this light, the catalogue of ships is considered an E. in the Riad, and the description of the war in heaven is considered an E. in Paradise Lost. Episodes should grow naturally out of the sul-ject, and should either point out important consequences or develop hidden causes. The E. describing the destruction of Troy, in Virgil's Encid, is one of this kind. In the best poets, episodes are generally finished in the most careful and elaborate manner. The Fuèric Querne of Spenser, and the Orlando Furioso of Ariosto, contain so many long episodes, that the poems present all the appearance of an inartistic compilation of unconnected legends.

Episod'ieally, adv. By way of episode.

Epispas'tie, a. [Gr. epispastikos; Fr. épispastique.

(Med.) Exciting a blistering or irritating action on the

seed.] (Bot.) The outer coat or covering of a seed; the tests or integruments of a seed.

Episperma'ie, a. (Bot.) Pertaining or relating to the episperm.

Epis'tatea, n. [Gr., a president.] (Greek Hist.) The title of the presidents of the two great councils of the Athenians, viz., the Ecclesia and the Scaate of the Five Hundred. They were elected from the preside of the ecclesia and senate, and their office lasted for one day, during which they kept the public records and seal.

Epistam'is, n. [Gr. epi, and stazein, to let fall.] (Med.) Bleeding at the nose. In young persons, and where it is produced by accidental causes, this is of no consequence; unless, indeed, it should be very profuse, and then the topical application of cold and of styptics, especially a strong solution of alum, or a plug of lint properly introduced, will check it; but when it occurs frequently in advanced life, and is independent of masal disease, it is apt to indicate fulness of the vessels of the head. It is a dangerous omen in disorders of great debility, and more especially in putrid fever.

head. It is a dangerous omen in disorders of great de-bility, and more especially in putrid fever. Epistemel'egy, n. [Gr. epistemē, knowledge, and logos, speech.] Doctrine of the fundamental grounds of knowledge. Epister'mal, a. [Gr. epi, and sternon, the breast-bone.] (Anat.) Applied to two bones situated upon the supe-rior and lateral part of the sternum. Episthet'eness, n. [Gr. episthen, forward, and tenein, to bend.] (Med.) A spasmodic affection by which the body is bent forward.

Epistal bate, n. [Gr. epi, and Eng. stilbite.] (Min.) A hydrous silicate of alumina and lime. See Stilbite. Epis'slee, n. [Gr. epistole, a message or letter; Fr. épistre.] A letter written from one person to another. The Scriptural episties are letters which were addressed by the inspired Apostles to churches or individuals. Of these the Apostle Paul wrote fourteen, St. James one, St. Peter two, St. John three, and St. Jude one. Those of Sts. James, Peter, John, and Jude, are commonly called general or Catholic Epistles, as not being addressed to any particular church, but to the churches in general. It is not without its use that we have the doctrines of the Christian religioniald down, not by one apostle only, but by several, so that the same divine truths are presented to us in different forms, or through different media, and thus their manifold beauties and character are better displayed. In reading an E., we ought to consider the occasion of it, the circumstances of those to whom it was addressed, the time when it was written, its general scope and design, as well as the intention of particular arguments and passages. By E. in the liturgy of the Roman Catholic and Prot. Episcopai churches, is meant the first lesson in the communion-service, and so styled because it is generally taken from the sacred Episties, though sometimes from the Acts, and occasionally from the Prophets.

Epis'tolke, n. pl. (Rom. Law.) Rescripts; opinions given by the emperors in cases submitted to them for decision. Answers of the emperors to petitions. — The answers of councillors, as Ulpian and others, to questions of law proposed to them.

Epis'tolker, Epis'tolkery, a. [L. Lat. epistolaris.] Epistil bite, n. [Gr. epi, and Eng. stilbite.]
A hydrous silicate of alumina and lime. See Sti See STILBITE

councillors, as Uplan and others, to questions of law proposed to them. **Epis'tolary**, **Epis'tolary**, a. [L. Lat. epistolaris.] Relating to epistles or letters; pertaining to missive communications; suitable to letters and correspondence; as, an epistolary style.—Contained in letters; transacted by letters; as, epistolary intercourse. **Epistolice**, a. A hort epistle. **Epistolize**, v. n. To write epistles. **Epis'tolize**, v. n. To write epistles. **Epis'tolize**, n. A writer of epistles. **Epis'tolize**, n. A writer of epistles. **Epis'tolize**, n. To write epistles. **Epistolize**, n. To write epistles. **Epis'tolize**, n. To write of epistles. **Epistolize**, n. To write epistles.

writing of letters.

Epistolographic characters. See Hieroglyphics.

Epistolography, n. [Fr. épistolographic.] Art, method, or practice of writing letters.

Epis'tema, n. (Gr. epi, and stoma, mouth.] (Zoöl.)

The space between the antennes and oral cavity in

The space between the antenue and oral cavity in Crustaces.

Epistrophe, (e-pis'tro-fe,) n. [Gr.] (Rhet.) A figure of speech wherein an affirmative sense is conveyed at the termination of a clause or sentence.

Epistylar Arcuation, n. (Arch.) The system in which columns support arches, instead of horizontal architraves and entablatures.

Epistyle, n. [Gr. epistylion; Lat. epistyllium.] (Arch.) Same as Architrava q. v.

Epitaph, n. [Fr. épitaphe; Gr. epi, upon, and taphos, a tomb.] The inscription upon a tombstone. Among the classical nations of antiquity, E were at first inscribed only upon the tombs of heroes and those who had made themselves distinguished in their country. Among the Greeks, the term was also applied to those verses which were sung in memory of a deceased person on the day of his funeral, or on its anniversary. Among the Romans, every family who consecrated a tomb to its relations had the privilege of inscribing an epitaph upon it. Both Greek and Roman epitaphs were distinguished by three qualities—brevity, simplicity, and familiarity. The Roman tombs were generally situated by the side of the public road, and the epitaphs usually commenced with the words, Sa, viator—"Stop, traveller." Sepulchral inscriptions seem first to have taken their origin in England, in the 11th cent. At that time they were always written in Latin. In the 13th cent., most of the epitaphs were written in French, but the clergy and religious bodies still continued to write in Latin. All epitaphs should be characterized by brevity and truth. The long tedious inscriptions upon some tomics are as untrue as they are ungrammatical, and would almost

maina

seem to substantiate the German proverb: "He lies like a tombstone, and is as impudent as a newspaper." Not-withstanding the solemn circumstances with which E. are associated, they are often made the vehicles of pleas-antry and satire. Goldamith wrote the following upon antry and satire. Go Mr. Edward Purdon:

"Here lies poor Ned Purdon, from misery freed, Who long was a bookseller's hack; Who ied such a damnable life in this world, I don't think he'll ever come back."

We may also quote the famous E composed by the poet Moore on a Dublin lawyer, who left an unsavory reputation behind him:

" Here lies John Shaw. Attorney-at-law;
And when he died,
The Devil cried—
'Give me your paw,
John Shaw—
Limb of the law!"

Burns wrote some very satirical epitaphs, and in France the same kind of grim humor has frequently been in-dulged in. The E upon Robespierre is as follows:

"Passant, ne pleure point mon sort; Si je vivais, tu serais mort." Dry your tears, passer by, If I lived, you should die.

This word is also applied to a eulogy in prose or verse, composed without any intent to be graven on a monu-

ment.

Epitaph'iam, Epitaph', a. [Gr. epitaphios.] Pertaining to an epitaph.

Epitaphist, (epi-taf-ist,) n. One who writes epitaphs.

Epit'asis, n. [Gr.] (Lit.) That part of a composition which forms the main action of the subject treated of, and serves as the prelude to the catastrophe; — correlation to make the prelude to the catastrophe; — correlation to make the prelude to the catastrophe. -Bee PROTASIS.

ative to protasis. (Med.) The pe The peroxysmal stage of a fever or other

Epithalam'ic, a. Belonging to, or intended for, an

epithalamium. Epithala'mium, n. [Fr. épithalame; Gr. epith mion, the bridal-song—*epi*, and *thalamos*, a bed-chamber, from Sansk. *talapa*, a couch.] A species of poem sung by the ancient Greeks and Romans near the bridal chamber of a newly-married couple. Poems of this character were written by Anacreon, Stesichorus, and Pindar. The E. written by Catullus on the occasion of the marriage of Peleus and Thetis, has always been much admired; and that written by the poet Spenser has been described as one of the most gorgeous in all lights and the control of the most gorgeous in all lights with the control of the most gorgeous in all lights with the control of the most gorgeous in all lights with the control of the most gorgeous in all lights with the control of the most gorgeous in all lights with the control of the most gorgeous in all lights with the control of the most gorgeous in all lights with the control of the most gorgeous in all lights with the control of the most gorgeous in all lights with the control of the most gorgeous in all lights with the control of the literature.

Epithe'lium, n. pithe'lium, n. [Gr. epi, and thelê, a teat.] (Anat.) A thin and delicate kind of cuticle, like that which covers A tini and control to the innermost the nipple. The term is now confined to the innermost layer of the internal cavities and canals of the body, which is analogous to the cuticle of the outer surface. by 1thema, n. [Gr. epithema.] (Med.) A lotion; an embrocation; an external topical dressing applied to the

Ep'ithem. n.

Epithema, n. [Gr. epithema.] (Med.) A lotion; an embrocation; an external topical dressing applied to the body.

Epithet, n. [Gr. epithetos—epi, and tithēmi, to place.] A term expressing some real quality of the thing to which it is applied, or an attribute expressing some quality acribed to it. Epithets are often used in poetry and rhetoric, not to make up any essential part of the description, but only by way of ornament. Even Homer has been found fault with on this head, for eqfipping every here with an E, not according to the exigencies of the case, but to suit the measure of his verse. Nothing, says Aristotle, tires the reader more than too great aredundancy of epithets, or epithets improperly applied and yet nothing is so essential in poetry as a proper use of them. Epithets are also sometimes applied as surnames, or as the second appellation of persons, and were anciently bestowed very freely on account of excellencies or defects, either of body or mind—even kings not being exempt from them; as, Edward Longshanks, Richard Cour de Lion.

Epithet'ic, a. [Gr. epithetikos.] Pertaining to an epithet or epithets; containing or consisting of epithets; abounding with epithets.

Epitheth'ides, n. (Arch.) A term applied by some writers, by way of distinction, to the cymatium on the sloping or raking cornices of a pediment, which superimposed moulding was frequently largely developed, and enriched with an ornamental pattern.

Epitome, n.; pl. Epithems. [Gr. epitomē—epi, and temō, to cut. See Toms.] An abridgment; a brief sumary or abstract of any book or writing; a compendium.

Epitomist, n. An epitomize; one who makes an epitome.

Epit'omize, v. a. To cut off; to curtail.

"We have epitomized many particular words."—Addison

—To shorten or abridge, as a writing or discourse; to ab stract; to condense; to reduce into smaller compass.

"If the ladies took a liking to such a diminutive race, would see all mankind epitomized."—Addison.

Epit'omizer. n. A writer of an epitome; one who abridges or makes abstracts.

abridges or makes abstracts.

Epiterite, n. [Gr. epitritos.] (Gr. and Lat. Pros.) A foot consisting of three long syllables and one short one, and called lst, 2d, 3d, and 4th epitrite, according as the short syllable stands as 1st, 2d, 3d, and 4th respectively; as salistantes, interedians, &c.

Epitrochoid, n. [Gr. epi, and trochos, wheel.] See

Epit'rope, n. (Rhd.) A figure conveying a repetition of a word or words with forcible emphasis.

Episo'a, n. pl. (Zoll.) The name given by Owen to a class of parasitic animals, which chiefly infect fishes,

and of which the Linnsean genus Lernos is the type;

— opposed to extosobs.

Episo'san, Episo'on, s. [Gr. epi, on, and sōos, animal.] One of the Episoa.

Episod't'ie, s. [Fr. épisob'tique.] Relating or belonging to the Episoa, or to Episob're, q. v.

(Geol.) Applied to such formations as contain animal remains.

remans.

Epino'éty, a. A generic name for those diseases of animals which manifest a common character, and prevail at the same time over considerable tracts of country. Like epidemics, they appear to depend upon some peculiar and not well-ascertained atmospheric causes; where the cases are neglected or overcrowded, they also frequently become only since they are at to take one

quently become contagious; they are apt to take on a low type of fever, and are better treated by supporting than by reducing remedies. Influenza in horses, and pleuro-pneumonia and vesicular epizodtic in cattle, are examples.

examples.

E Pluribus Umum. [Lat., one from many.] The motto of the United States coat-of-arms (see Fig. 891).

Epoch, Epocha (cp/ok.cp/ok-a), n. [Gr. cpoch-c, from spechō, to hold upon—epi, and chō, to hold.] (Chron.)

A fixed point of time from which succeeding years are numbered; a point from which computation of years begins; any fixed time or period; the period when anything begins, or is remarkably prevalent; period; sera; date; age.

"Bones of war, and specks of we."—Prior.

(Astron.) The longitude or right ascension of a planet

"Scenes of war, and speckes of wee."—Prior.

(Astron.) The longitude or right ascension of a planet
at any particular moment of time, is simply called the
epoch of that planet, for the sake of brevity. In order
to determine the future position of a planet in the
heavens at any particular period, it is necessary to
reckon from its epoch, or known longitude at a certain
point of past time.

Ep'ochal, a. Relating or belonging to an epoch:
characteristic of an epoch.
Ger, (ep'od,) m. (Gr. epō, dē—epi, and ōdē, an ode.
See Obs.] (Lit.) In the strophic choruses of the Greek
drama, the last portion following the strophe and antistrophe is so called. The name of Epodes, applied to a
book of Horace's poems, merely signifies supplementary
odes.

Epod'ie, a. [Gr. epodikos.] Relating to or resembling

an epode Ep'onyms, Ep'onyme, n. (Gr. epi, and onoma, name.)
A name derived from an individual's patronymic, and applied to a people, region, &c.

A name derived from an individual's patronymic, and applied to a people, region, &c.

Epon'ymeus, a. Bestowing a person's name to a people, country, &c.

Epone, (po-pi), n. [Fr.; Gr. epopoiia—epos, a word, an epic poem, and poitō, to make.] (Lit.) An epic poem; the history, action, or fable which makes the subject of an epic poem.—See Epo.

Epos, n. [Gr.] An epic poem; an epopea.

Eposing, in New Hampshire, a post-village and township of Rockingham co., on Lamprey River, abt. 30 m.

S.E. of Concord; pop. abt. 1,700.

Eprouvette, (a-prōō-ct\*), n. [Fr., from eproveer.] (Gunney.) An apparatus by which the strength of gunpowder is ascertained. There are two methods of doing this, the first being effected by what is called the gun-E, and the second by the mortar-E. The latter is by no means an accurate test for comparing the strength of different kinds of powder, unless the grain of all the sorts to be tried be of the same size. A small charge is put into a mortar, and a suitable spherical iron case-shot is placed upon it; the charge is then exploded, and the distance to which the projectile is thrown is carefully measured. The range obtained is of course greater or less according to the strength of the powder. In the gun-E a gun is attached to an iron rod at its centre of gravity, or point at which the gun would exactly balance if placed across a horizontal bar. The upper part of the rod is fastened to a horizontal bar, the ends of which rest in sockets, and which forms an axis, about which the whole apparatus may swing backwards and forwards when set in motion. From the lower part of the gun, the whole apparatus may swing backwards and forwards when set in motion. From the lower part of the gun



Fig. 952. — EPROUVETTE.

and in a continuous vertical line with the bar by which it is suspended, a rod of iron projects, the point of which works in a groove cut in a piece of wood fixed below it, in the form of the arc of a circle, whose centre is in the axis, around which the whole machine oscillates. This groove is filled with a soft substance. The gun is loaded with a carefully-measured charge of powder: and when fired, the recoil of the gun causes the point of the rod projecting from the under part to describe a line on the soft substance in the groove, the measurement of which determines the strength of the powder. Sometimes a brass quadrant is fixed to the upper part of the rod by which the gun is suspended, on which the extent of the recoil is marked by an index.—The ordinary E is an instrument shaped like a small pistol, without a barrel (Fig. 952), and having its breech-chamber closed by a fiat and in a continuous vertical line with the bar by which

plate connected with a strong spring. On the explosion of the powder against the plate, it is driven back to a distance indexed according to the strength of the powder, and is retained by a ratchet-wheel at its extreme state of propulsion.

of propulsion.

Ep'soem, a small town of England, on the margin of the Barnstead Downs, in Surrey, 15 m. S.S.W. of London; pop. 5,478.—On the Downs, 1½ m. S. from the town, the famous E horse-races are held yearly. They last 4 days, and as many as 1,000,000 persons often assemble to witness the most important of them.—See DERBY (THE).

Ep'soem, in New Hampshire, a post-township of Merrimac co., abt. 8 m. S.E. of Concord.

mac co., aut. 8 m. S.E. of Concord.

Ep'somite, n. (Min.) Epson-salt, q. v.

Ep'som-salt, n. (Chem.) Sulphate of magnesia. It exists in the mineral waters at Epsom, Eng., whence the name; also at Sedits, and Saidachuts in Schemia. the name; also at Sedlitz, and Saidschuts in Bohemia. It also occurs as a fibrous or capillary efflorescence on rocks in mines, caves, and elsewhere. In the mines of Idria it occurs in silky fibres, and is called hair-salt by the workmen. It is found adhering in loose masses to the roof of Mammoth Cave, Ky., and covers some of the California plains E. of San Diego. It is obtained artificially by treating calcined dolomite with sulphuric acid.

acid.

Epu'18, n. [Gr. epoulis, a gum-boil.] (Med.) A small tubercle on the gums.

Epulomes, (epu-lönes, n.pl. [Lat.] (Rom. Hist.) Priests, appointed first in 196 s.c., to attend to the qualism Jovis, or banquets of Jupiter and the other gods. They formed one of the four great religious corporations at Rome, the other three being the Augurs, Pontifices, and Quindocement.

Expulorise, n. [Gr. epi, and ould, a scar.] (Med.) An application which promotes the cicatrizing and healing of sores;—hence the epulotic continuents of old pharmacy.

—a. Tending to cicatrize and heal.

—a. Tending to cicatrise and heal.
Epotdles, (e-pot'-del), n. pl. [Gr.] In ancient naval architecture, two thick blocks of wood, resembling ears, placed one on each side of the prow of a galley, for warding off the blows of the rostra of an enemy's vessel.
Epurations, n. [Lat. e, and pureare, to purify.] A purification. purification.

purification.

Epure, (a-pūr',) n. [Fr.] Model or plan of a building.

Epure, (a-pūr',) n. [Fr.] Model or plan of a building.

Epworth, in lova, a post-village of Dubuque co., abt.

19 m. W. of Dubuque.

Equabil'ity, n. [Lat. equabilitas.] State or quality
of being equable; equality; continued equality at all
times, in velocity, movement, mind, or temper; evenness; uniformity.

Equabile, (c'kwa-bi,) a. [Lat. equabilis, from equa, to
make equal, from equal, equal.] That appears on comparison to be fully equal; equal and uniform at all times;
even; smooth; steady; undisturbed; unruffled; aa, an
equable temper.

even; smooth; steady; undisturbed; unruffled; as, an equable temper.

E. motion is that by which equal spaces are passed over in equal times.

E'quableness, n. State of being equable.

E'quably, adv. In an equable or uniform manner.

E'quador, Republic or. See Eccapos.

E'guador, C'kical), a. [Lat. equalit, from equo—equas, level; probable root, Sansk. &a.] Of the same extent, magnitude, measure, or degree, when compared; the same in weight, number, or condition; the same in motion, space, or time; the same in qualities; corresponding.

"Eval lot may join us; equality or, as equal love."—Maless. "Equal lot may join us; equal joy, as equal love."--Milton.

"squai to may join us; equadjoy, as equal lore."—Mileon.

Not variable; even; equable; uniform; as, an equal temper. — Being in just proportion; proportionate; commensurate; adequate; as, he is not equal to the duty imposed. — Impartial; fair; just; equitable; as, an equal condition. — Indifferent; feeling or possessing the same degree of interest; as, his likes and dislikes the same degree of interest; as, his likes and distince are equal to me.

-n. One not inferior or superior to another; having the

-a. One not interior or superior or automor; maving the same or a similar age, rank, station, office, talents, strength, &c.; as, she has not her equal.

-a. To make equal to; to make like; to equalize; to raise to the same rank, state, or estimation with; to be-

come or be equal to.

"One whose all not squals Edward's moiety." — Shaki

To recompense fully; to make equivalent to.—To answer in full proportion; to be of like excellence or beauty as.

beauty as.

Equality, n. [Lat. aqualitas; Fr. égalité.] State or
quality of being equal or alike in anything; likeness;
correspondence in condition; as, to be on a footing of
quality.—Uniformity; similarity; plainness; as, equality of surface.—Sameness in state, condition, or course;

ity of surface.—Sameness in state, condution, or course; as, equality of constitution.

(Math.) Exact concord of quantity between two magnitudes, denoted by the sign =: as, for instance, b = y conveys the meaning that b contains an identical number of units with y.

(Law.) Likeness in possessing the same rights, and being liable to the same duties. Persons are all equal before the law, whatever adventitious advantages come may possess over others. All persons are protected by the law, and obedience to it is required from all. Quan'ity, in Illinois, a post-village of Gallatin co., on Saline creek, about 187 m. S. E. of Springfield. Pop. (1897) about 700.

(1897) about 700.

Equality, in Kentucky, a village of Barren co.

Equalitation, n. [Fr. égalisation.] Act of equalizing, or state of being equalized.

Equalities, v. a. [Fr. égaliser.] To make equal or alike; to make even or uniform; as, to equalize accounts.—

To bring or reduce to an equality.

"It could not equality the hundredth part
Of what her eyes have kindled in my her

E'qually, adv. In an equal manner; evenly; uniformly; as, they are equally matched.

unalmoss, s. A state of being corresponding or qual; equality.— Evenness; uniformity.

Equan'gular, a. Having equal angles.
Equan'mity, n. [Lat. equanimitas - equas, e
eren, and animus, mind. See Animatz.] Evenne mind; uniformity and steadiness of temper; that calm disposition or firmness of mind which is not easily elated or depressed; as, nothing can shake his equa-

rainity.
Equant, n. [Lat. squo, I make equal.] (Ptolemaic Astron.). Among the ancients this term denoted a circle which was conceived to be described in the plane of the deferent or eccentric, for regulating and adjusting certain motions of the planets, and reducing them to easier

crieves or exemeric, for regulating and adjusting certain motions of the planets, and reducing them to easier calculation.

Equate', v. a. [Lat. squo, squalus.] To make equal; to reduce to an equation; to reduce to mean time or motion; as, to equate distances.

Equation, (2-toc'stons), n. [Fr. equation; Lat. squalo.] (Math.) A term given to the symbolical expression of the quality of two quantities. The sign =, placed between the two quantities, signifies that they are equal. Thus \$5x+10=25, is an \$E. expressing the equality of the quantities \$5x+10\$ and \$25\$. A simple \$E\$ is that which contains only the first power of the unknown quantity or quantities. Pure equations of the higher degrees are those which contain the square or any higher power of the unknown quantity, and are divided into two classes—pure and affected. A pure \$E\$ is that in which only one power of the unknown quantity are involved. Thus, \$ax^3 = b\$ is a pure \$E\$, and \$ax^3 + bx = c\$ is an affected \$E\$. An affected quadratic \$E\$ is that which contains the square of the unknown quantity and also the unknown quantity itself. An \$E\$ is said to be algebraic when the operations to which the unknown quantity \$x\$ is subjected do not transcend the ordinary algebraical operations of addition, subtraction, multiplication, division, involution, and evolution; in other cases the \$E\$ is termed transcendent, and receives the distinctive names of exponential, logarithmic, brigonometrical, \$E\$ c. according to the nature of the functions of \$x\$ which it involves. An algebraic \$E\$ is further said to be \*rational\* and integral\* when, in it, the unknown quantity neither appears in the denominator of a fraction nor under any radical sign. It is evident that every algebraic \$E\$ can be rendered rational and integral by means of appropriate transformations. See Bitymial Equation: `Exceptecal Equations.

that every algebraic E. can be rendered rational and integral by means of appropriate transformations. See BINDHAL EQUATION; RECUPERCAL EQUATION.

(Astron.) The difference between the apparent and mean motion of the sun. See EQUATION OF TIME.

Personal Equation. (Astron.) The interval of time by which an observer, on the average of a number of observations, notes a phenomenon before or after the instint assumed to be that of its actual occurrence.

Equation of a Curve. (Math.) An equation demonstrating the existent relation between the co-ordinates of every point in the curve.

Equation of Condition. (Math.) See Difference.

Equation of Control. (Astron.) The quantity by which the true longitude of the earth differs from the mean longitude.

Equation of the Equinox. (Astron.) The difference between the mean and apparent places of the

Form the mean longitude.

\*\*Squartion of the longitude.\*\*

\*\*Lauxtion of Payments.\*\*

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\*\*Lauxtion of Fayments.\*\*

\*\*Lauxtion of Fayments.\*\*

\*\*Lauxtion of Time.\*\*

\*\*Lauxtion of Ti

right ascensions are measured on the E.; and the declinations on circles which intersect it at right angles. The E., in the heavens, is often styled the equinoctial. (Geog ) Name given in 1874 to those provinces of the Upper Nile and Lake region, in Central Africa, lately annexed to Egypt. An extent of territory larger than that portion of the U.S. east of the Missispip River. Equaterizal, a. Relating or pertaining to the equator.—n. (Astron.) An astronomical telescope, (see Fig. 223,) mounted for the purpose of continuously observing and noting the right ascension and declination of a celestial body situated in any part of the visible heavens. The principal axis of the equatorial mounting is parallel to the earth's axis, and by means of this construction it is possible to follow a star from rising and setting by driving the telescope, either by hand or machinery, westward, at the same rate at which the carth's notion carries it eastward. On the polar axis there is fixed a westward, at the same rate at which the earth's motion carries it eastward. On the polar axis there is fixed a graduated circle, the plane of which is perpendicular to the polar axis, and therefore parallel to the earth's equator. This is called the hour circle, and is furnished with two indices. If one be set to sidereal time at the place of observation, which of course represents the right ascension of the part of the heavens then crossing the meridian, the other index will show the right ascension of the part of the heavens to which the telescope points. In this manner the right ascension of a comet

place of observation, which of course represents the right ascension of the part of the heavens then crossing the meridian, the other index will show the right ascension of the part of the heavens to which the telescope points. In this manner the right ascension of a comet, for instance, may be at once found, or the telescope may be pointed to any given right ascension. But the telescope itself is attached to another axis, called the declination axis, at right angles to the former one; and to this axis is also attached at right angles another circle, the declination circle. The plane of the second circle and of the telescope's motion in declinations is thus in all positions at right angles to the plane of the first or equatorial circle. Now it is easy to conceive, from this general description, that when the telescope is pointed to a star, the augle between the direction of the telescope and the polar axis is equal to the polar distance of the star; and by setting the index of the declination circle to zero when the telescope is at right angles to the polar axis, the declination of a star is registered in all positions of the instrument; consequently, when a motion is given to the polar axis without altering the position of the telescope on the declination circle, the point to which the telescope is directed will always lie in the small circle of the heavens coincident with a star's diurnal path; and hence, if the motion communicated to the polar axis be equal to the earth's diurnal rotation, a star will remain constantly in the field. This motion of rotation is communicated to the instrument by clock-work.—See Tauscops.

Equator'sall Cur'remt. (Hydrog.) The heated surrence of some strength, first distinctly traceable off the coast of Africa near the equator, and extending across the ocean to the shores of South America. Its breadth at first only 150 miles, becomes three times as great when it approaches the South America, heap themselves of the Erzlian coast, are diverted northward and make their way into the

Equibal'ance, v. a. [Lat. equus, and Eng. balance.]
To possess an equal weight with something; to equipon-

To possess an equal weight with something; to equiponderate.

—n. Equal weight; counterpoise.

Equildee, (e/kwe-de,) n. pl. [From Lat. equat. a horse.]
(Zoil.) The Horse family, belonging to the order Pachiderwata. Its most striking character consists in the structure of the feet, which are composed of but a single finger or toe terminating each extremity, and encased in a horny sheath or shoe. Besides this well-developed toe, however, the E possess on each side of the metacarpus and metatarsus two small rudinentary processes, which represent two lateral toes. The structure of the leg-bones is much the same as in the generality of the mammalia, except that the humerus and femur are comparatively short, and the bones of the fore-arm and shank, which are much longer, are partially anchylosed together, so that no rotary motion of these bones can take place. The bones of the carpus and tarsus are large and solid, and resemble the bones of the other mammalia in their general arrangement. Beyond these we find a single elongated metatarsal bone, the representative of the middle toe. This is completed by three phalanges, of which the last bears the single horny hoof. This family is distinguished from all other animals by its undivided hoof, formed of the two anterior toes soldered together, its simple stomach, and its female having the teats placed on the pubes. It may be divided into two very distinct types of form: the one the assess and the zebras, which are always more or less banded with blackish-brown, and have always a distinct dorsal line, the tail only bristly at the end, and have warts only on the arms, and none on the hind legs; and the true horses, which are not banded, have have warts only on the arms, and none on the hind legs; and the true horses, which are not banded, have



Fig. 953. - GROUP OF HORSES.

Fig. 953.—GROUP OF HORSES.

no dorsal line, are furnished with warts on their arms and legs, and have long hair on the tail from its insertion to its extremity. The skull of the E. is of an elongated form, the juws being well developed, the lower one especially being of great strength and power. Both jaws are provided with six incisor teeth; small canines are also present in both jaws in the males, but in the females these teeth are usually rudinentary or quite deficient. The molars are six on each side in each jaw; their worn surface is flat, and exhibits a complicated pattern of enamel, generally of a lunate form. Between the molars and incisors there is a considerable space, and in this space is fitted the bit by which the animal is guided. The hair with which the skin is clothed is short on the general surface, but attaining a considerable length on the ridge of the neck and on the tail. The eye is rather large and full, and the external ears elongated, upright, and pointed. The most important species belonging to this family is, without doubt, equus caballus, the Horse, q. v. The other principal species or genera are the Ass, the Zebra, the Onager, and the Quaga, q. v.

Equitally ferems, a. [Lat. equus, and differens.] Equally proportional.

ly proportional.

Equidis'tanee, n. Equal distance.

Equidis'tant, a. [Lat. squus, and distans. See Distant.]

Tant.] Being at an equal distance from the same point, or thins

Equidis'tantly, adv. At the same or an equal dis-

E'quiform, a. [Fr. equiforme.] Presenting the same

Equiform'ity, n. Uniform equality; as, "equiformity of motion."

ify of motion."

Equilat'eral, a. [Lat. equus, and lateralis—latus, a side. See LATERAL.] (Geom.) A rectilineal figure is said to be equilateral when all its sides are equal. If, moreover, its angles are all equal, it is called regular. Every equilateral figure inscribed in a circle is necessary equiangular, and therefore regular. The converse theorem, however, is only true for polygons with an odd number of sides. Equiangular inscribed polygons with an even number of sides, if not equilateral, will at least have every alternate side equal.

Equilateral bivalve. (Conch.) A shell is so called when a transverse line drawn through the apex of the umbo

a transverse line drawn through the apex of the umbo

Equilateral hyperbola. (Math.) An hyperbola having

Equitateral hyperbola. (Math.) An apperbola maxima equal axes.

Equilateral hyperbolic paraboloid. (Math.) A quadric conoidal surface generated by a right line which, during its motion, rests upon two other right lines or directrices, to one of which it always remains perpendicular. See QUADRIC.

Quadric.

—n. A figure presenting equal sides.

Equilib'rate, v. a. [Lat. aquas, and libro, libratus, to weigh. See Libratus.] To keep in equipoise; to balance equility; to keep even with equal weight on both sides; as, an equilibrated magnetic needle.

Equilibrations, a. State of being equally balanced or equipoised.

Equilib'rious, a. Equally balanced.

Equilib'rious, a. Equally balanced.

Equilib'rious, a. One who practices the balancing of himself in hazardous and unnatural positions; as, "an equilibriat and rope-dancer."

nimeer in nazaroous and unnatural positions; as, "an equilibrate and rope-dancer."

Equilibraty, n. State of preserving an equal poise or balance; equilibrium.

Equilibratum, n. [Fr. Equilibra; Lat. equilibration and libra, a balance.] Equipoise; equality of weight or force; state of rest produced by two or more mutually counterating forces.

state of rest produced by two or more mutually counteracting forces. — Just poise or balance; equilibrity of any
object. See GRAVITY, (CENTER OF.)

-Equal balancing of the mind between motives or reasons;
equal diffusion or distribution of thought.

(Fine Arts.) The just place or balance of a figure, or
other object, so that it may appear to stand firmly. Also
the due equipoise of objects, lights, shadows, &c., against
each other by some striking features. This quality is
obvious in the works of nature, as well in the human
form as in landscape. In the latter, for instance, the
sun is generally the medium of producing it by strong
contrasts of light and shadow.

-In Architecture, the same means are employed to pro-

Contrasts of fight and Shadow.

In Architecture, the same means are employed to produce the most striking effects.

(Polit.) See Balance of Power.

In equilibrio. [Lat.] In a state of equipolse or equilibrium.

Equilibrium of Arches. (Arch.) This is a sub Equilibrium of Arches. (Arch.) This is a sub-ject which is treated in that part of mathematical science called Statics. In this the conditions are considered in which any body, or number of bodies, will remain in a state of rest under the influence of forces that act in opposite directions, and mutually counteract each other. It is evident that the conditions of E. can be considered in theory only, as the slightest possible addition to either of the counteracting forces would immediately give it a preponderating influence, and destroy the state of ba-ance. In investigating the E. of A., we must imagine the surfaces of the voussoirs to be perfectly smooth, and friction must be altogether disregarded, so that each stone may be considered to be sustained by the pressure of those on either side of it, acting, under these con-ditions, in directions perpendicular to their surfaces. The theory on which the E. of A. depends is briefly this, that the weights of the voussoirs of which it is composed that the weights of the vonseirs of which it is composed must be in the same proportion to each other as the sections of the chord of the arch, which are made by producing the lines which represent the junctures of the

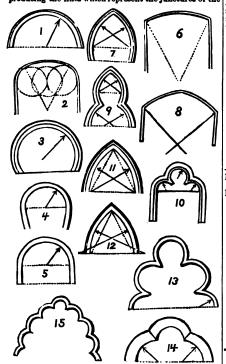


Fig. 954. -- PRINCIPAL FORMS OF ARCHES.

semi-circular; 2, elliptic; 3, 4, 7, horse-shoe; 5, stilted; 6, seg-tal; 8, segmental pointed; 9, 10, trefolt; 11, equilateral; 13, st; 13, cinquefolt; 14, trefoll; 15, multifoll.

mental arch. It is also necessary that the perpendicular passing through the centre of gravity of any part of the arch should pass through a parallelogram formed by lines drawn perpendicular to the sides of the part in question from their extremities. In such an arch the vousoirs at the crown would be the least in depth, and each successive vousoir, from the crown toward the piers, would increase in thickness, so that the line of the extrados would not be described from the same centre as that from which the line of intrados has been described. The slightest alteration of the weight of any of scribed. The slightest alteration of the weight of any of the voussoirs of such an arch as this, in which the stones that compose it are supposed to be supported without friction, would cause it to be overturned; but when fricfriction, would cause it to be overturned; but when fric-tion is taken into account, it is plain that an arch, which would remain in equilibrium under the conditions above stated, if they could exist in practice, would then be capable of sustaining a great amount of superincumbent pressure; and, indeed, pressure on the arch tends to make it stronger, by increasing the friction by which the pressure on it is resisted. The theory of the E of domes is somewhat similar to that of the E. of A., if we consider the dome to consist of a series of exactly equal domes is somewhat similar to that of the E. of A., if we consider the dome to consist of a series of exactly equal and opposite slices, that are formed by planes passing perpendicularly through the axis at a small angle to each other, and which support each other at the crown, being, in fact, a number of balanced arches, each of which would preserve its equilibrium, if it were left standing alone. But in the dome, E. will be maintained, and the structure will be stronger, if the weight of the upper part of each of such a series of contiguous balanced arches be greater than that which would be required to preserve E. in a balanced arch of similar form standing alone; because every stone in each circular and horizontal course, or each of the whole series of the opposite parts of the balanced arches, exerts a lateral pressure on those on either side of it, and their tendency to fall inwards locks the whole structure tightly together. To inwards locks the whole structure tightly together. To insure the E. of an arch, friction being disregarded, it is therefore necessary to bring the weight of the vousoirs composing the crown up to a certain limit, which must not be increased or diminished in any way; but in the dome, E. will be maintained, for the reasons above stated, the contraction of the contraction o

dome, E will be maintained, for the reasons above stated, when the weight of the upper portion of each of the series of arches of which it may be supposed to be composed exceeds this limit.—See Arch.

Equilib'rium-valve, n. (Mach.) The valve in the steam-passage of a Cornish engine for opening the communication between the top and bottom of the cylinder, to render the pressure equal on both sides of the piston.

Equimul'tiple, a. [Fr.; Lat. equus, and multiplico, to multiply.] Multiplied by the same number or quantity multiplied by the same number or quantity as another: thus, m A and m B are equimultiples of A and B, whatever magnitudes the latter may represent; er, 4 times 2, or 8, and four times 4, or 16, are equimultiples of 2 and 4.

Equime, Equimal, (c-kwin', a. [Lat. equimus, from cquus, a horse.] Pertaining to a horse; denoting the horse kind.

Equime c'essary, a. Requisite in an equal degree.

horse kind.

Equinec'essary, a. Requisite in an equal degree.

Equin'ia., s. [Lat. equinus.] (Med.) See Glanders.

Equinoctial, (3-kwi-nok'she-al.) a. [Fr. equinocial;
Lat. equins, and now, noctis, night. See Equinox.] Pertaining to the equinoxes; having the nights equal to the days; as, the equinocial line.—Relating or pertaining to the time of the equinoxes; as, an equinocial gale.—Pertaining or having reference to the regions or climate of the equinocial line or equator.

"Pluing with equipocial heat."—Philips.

ing to the time of the equinoxes; as, an equinoctial gale. —Pertaining or having reference to the regions or climate of the equinoctial line or equator.

"Pining with equinoctial beat."—Philips.

E colure. (Astron.) The meridian passing through the equinoctial points. —E. flowers, those which open at a stated hour. —E. points. (Astron.) The two opposite points of the celestial sphere in which the ecliptic and equator intersect each other; the one being the first point of Aries, and the other the first point of Libra. See Pricesson. —E. time. Astronomers sometimes give the date of an occurrence in equinoctial time to get rid of differences. This is reckoned from the moment when the point of Aries passes the vernal equinox.

—n. The equator. See Equator.

Equinoctially, adv. Towards the equator; in the direction of the equinox.

Equinoctially, adv. Towards the equator; in the direction of the equinox.

Equinoctial points. When the sun is in the equator, the days and nights are of equal length all over the world, whence the derivation of the term. This happens twice every year; namely, about the 21st of March, and the 22d of September: the former is called the rernal, and the latter the autumnal equinox. The equinoxes do not divide the year into portions of equal length; for in consequence of the earth being at its greatest distance from the sun during the summer months, and its angular motion in its orbit being consequently slower, the interval from the vernal to the autumnal equinox is greater than that from the autumnal to the vernal. In other words, the sun continues longer on the northern than on the southern side of the equator. At the beginning of the present cent., the difference amounted to 7 days 16 hours and 61 minutes. The summer in the northern hemisphere is consequently longer than in the southern by this quantity; and to this circumstance some meteorologists ascribe, in part at least, the higher temperature that is found to prevail in the northern hemisphere under the same parallel. — See Parcession

sides of the vouseoirs to the centre from which the line of intrados is described, supposing the arch to be a segmental arch. It is also necessary that the perpendicular discussion of the perpendicular discussion of the perpendicular discussions of the perpendicul

oase.

Gaulip, (ö-kwip',) v.a. [Fr. équiper, from L. Lat. eschipare, from Goth. skip, a ship.] To fit, as a ship for sea;
to accoutre; to furnish; to supply with men, ordnance,
and munitions of war, as a ship; to furnish with arms,
or a complete suit of arms. (Used chiefly in a naval and Equip. military sense.)

minitary sense.)

To dress up: to adorn; to decorate, as the person; as,
"equipped in a ridiculous habit."— Addison.
2quipped, (et'so'pdj, n. [F.1] (Mar.) The crew of
a ship, together with all a ship's furniture, masts, sails,
arms, munitions, &c.

(Mil.) The furniture of an army or body of troops. In

(Mil.) The furniture of an army or body of troops. In this sense it includes arms, artillery, utensils, provisions, &c. Camp E. includes tents and things necessary for accommodation in camp; while field E. consists of arms, artillery, wagons, tumbrels, &c.

—Ornamental furniture; accountrements; apparel; as, "equipage of Pride."—Pope.

—Betinue; attendance, as the carriage, horses, and liveries which indicate the fortune or rank of a person when appearing abroad; as, the equipage of a nobleman.

Eq uipageed, (&'wopdid.) a. Furnished with an equipage; attended with a handsome or splendid retinue.

"A goodly train of squires and indice equipage's well."—Spenser.

Eq uip'agrate, v. a. To make comparison. (a.)

Eq uip'edial, a. [Lat. aquas, and pendens, pendules.

equal feet.

Equipen'dency, n. [Lat. equus, and pendens, penders, to hang.] State of hanging in an equipoine state.

Equip'ment, n. Act of equipping, furnishing, or fitting for a vyage or any expedition.—Anything that is used in equipping; furniture; habiliments; warlike appliances: supplies for a vyage or expedition; as, the equipment of an army,

(Civil Engineering.) The necessary adjuncts of a rail-road as locomotives care trucks &c. (Called in England

road, as locomotives, cars, trucks, &c. (Called in England.

rolling-stock.)

Equipolise, s. [Lat. equals, and Fr. pouls, weightfrom Lat. pondus. See POUND.] Equal weight; equality of weight or force; equilibrium; a state in which the two ends or sides of a thing are balanced.

two ends of ances of a thing are mances.

Equipol/lenecy, s. [Fr. equipol-lenecy, s. [Fr. equipol-lenec; Lat. equat, and L. Lat. pollentia, power, from polleo, to be able: Sanak. pul, to be great.] Equality of power or force; ability, power, or force in the same de-

gree.
(Logic.) A term denoting that two or more propositions signify one and the same thing, though they express it differently.

Equipollent, a. [Fr., from L. Lat. equipollent.]
Having equal or equivalent power, strength or force.
(Logic.) Having equivalent significance.

Equipollently, adv. With equal force and significance.

They are herbaceous plants, with striated, hollow, jointed, simple or vertically-branched, aërial, silicious stems, arising from slender creeping rhizomes, or underground stems. The joints are surrounded joints are surrounded by membranous toothed sheaths, which are re-garded as modified leaves; but, in general, the plants of the order are considered leafless. When branched, the branches arise in a whorled manner from beneath the axils of the sheaths, and correspond in number with them. These plants are found in marshy or watery places in most parts of the world. There is but one genus, Equisetum, which includes 10 spe-



Fig. 955. equisetum telmateia. summit of fertile stem, with frue-tification: 3, a scale, with its stalk (fateral view); 3, a spore, with im flaments unrolled: 4, a spore, with its filaments hygremetrically

which includes 10 species. The rhizomes contain much starchy matter in the winter months, which might be used as food in case of need. E. arvense, the Field Horsetail; E. paleustre, the Marsh Horsetail; E. sylvaticus, the Wood Horsetail;

and E. Emosum, the Pipes, are found in most of the States, in woods and low grounds. The rough silicious stems of some species are used for amoothing and polishing wood, particularly those of *E. hyemale*, commonly known under the name of DUTCH RUSHES. The stems of this species are unbranched, or a little branched only at the base. It is sparingly found in this country. **Equiseta'ceous**, a. (Bot.) Belonging to the Equi-

STACER, q. v.
Equiset' form, a. (Bot.) Formed like the Equisetum.
Equise' tum, n., pl. Equisera. (Bot.) See Equiseracem Equise tum, n., pl. Equisera. (Bot.) See Equiseraces. Equis onance, n. [Fr. bynisonnance.] (Mus.) An

Equis'ensure, n. [Fr. équisonnance.] (Mus.) An equal sounding.

Equis'omant, a. Having equal sound, as octaves.
Equitable, (ck'soi-ta-ble.) a. [Fr. équitable, from Lat. equitas, equity, from expus, equal.] Equal in regard to the rights of persons; distributing equal justice; giving each his due; just; impartial; houest: upright; reasonable; fair; due to justice; as, an equitable decision.

— Held or exercised in equity; as, equitable justicition.
Eq'attablemess, n. Equity; quality of being equitable, just, or impartial.

Eq'uitably, adv. In an equitable manner; justly; impartial.

partial Equitamety, n. (Manege.) Horsemanship. Equitamety, n. (Manege.) Horsemanship. Equitangem timl, a. [Lat. equat, and Eng. tangential, q.v.] (Groom.) Said of a curve whose tangent is on an equality with a constant line. Equitamt, (ek wi-tant,) a. [Lat. equitans.] Mounted on

horseback.

(Bod.) Overlapping one another entirely and without any involution, as the leaves of the Iris.

Equita: tiom, m. [Lat. equitatio.] Act of riding on horseback; manege; Horsemanselly, etc.

Equites, m. pl. [Lat., horsemen.] (Roman Hist.) A class of citizens, commonly represented by the English word hights, but not answering in all respects to its meaning. According to the account of Livy (I. 13), Romulus constituted three centuries of E to whom he gave accounted the control of E to w ing. According to the account of Livy (i. 13), Romulus constituted three centuries of E., to whom he gave severally the names Ramnenses, Titienses, and Luceres. Livy, however, elsewhere speaks of these three centuries (who were collectively called Celeres) as the three ancient tribes. Down to the time of Gracchus, the E. formed simply a division of the army, and their centuries were composed of patricians and plebelans; but by the Lex Sempronia, B. C. 123, a new class called the Ordo Equatrix was instituted, and all the judices, who assisted the prestor; in trials, were to be citizens of consensated. assisted the prector in trials, were to be citizens of eques-trian fortune. The badges of the E were a golden ring and a robe with a narrow purple border; and to them were appropriated the fourteen rows of seats in the were appropriated the following the season in the area next the orchestra. The E. furnished the farmers of the public revenue, or publicant; but though they had enjoyed this privilege under the republic, it was

they had enjoyed this privilege under the republic, it was only during the empire that they looked to such offices as their birthright.

Equity, (ct'wite,) m. [Fr. equitt: Lat. equitas, from equal. See Equal.] Uniformity; right, as contemplated by the law of nature; impartial distribution of justice; natural justice; a just regard to right or claims; impartiality; uprightness; fairness.

(Law.) Remedies for the redress of wrongs, or for the enforcement of rights, are distinguished into two classes, —those which are administered in courts of equity. The rights secured by the former are called logal; those by the latter, equitable. The former are rights and remember the secured of the former are rights and remember the secured by the former are rights and remember the secured by the former are rights and remember the secured by the former are rights and remember the secured by the former are rights and remember the secured by the former are rights and remember the secured by the former are rights and remember the secured by the ane rights secured by the former are called byal; those by the latter, equitable. The former are rights and remedies at common law; the latter, rights and remedies in equity. Much misunderstanding has prevailed regarding the distinctive features of these two branches of jurisprudence. Some have represented them. ing the distinctive features of these two branches of jurisprudence. Some have represented them as two opposing and hostile powers, continually at warfare with each other, and striving to encroach on each other's province, as if, in the language of Blackstone, "the one judged without equity, and the other was not bound by any law." It has also been stated that a court of equity is not bound by rules or precedents, but acts from the opinion of the judge; and that the province of equity, as distinguished from law, is to determine according to the spirit of the rule, and not according to the strictues of the letter. In the early history of equity jurisprudence, there might have been much to give color to dence, there might have been much to give color to these views; but in the present day, courts of equity act upon principles as fixed and certain as those on which cours of law proceed. New cases may, and indeed do, arise; but they are decided upon these ascertained rules and principles, whatever may be the opinion of the judge arise; but they are decided upon these accertained rules and principles, whatever may be the opinion of the judge as to what may be just or reasonable in the particular case before him. Equity, then, is a branch of jurisprudence which aims at supplementing the defects of common law, by extending relief to those rights of property which the strict law does not recognize, and by giving more ample and distributive redress than the ordinary ribunals afford. It by no means either controls, mitigates, or supersedes the common law, and does not assume any power to subvert its doctrines. Courts of common law pruceed by certain prescribed forms, and give a general judgment for or against the defendant; but there are many cases in which a simple judgment for either party, without qualifications and conditions and particular arrangements, would not de entire justice to either. Some modification of the rights of parties may be required, some restraints on the one side or the other, or some psculiar adjustments, either present or future, temporary or perpetual. To meet these objects, the courts of law in this country have no provisions; they can only adjudicate by a simple judgment between they can only adjudicate by a simple judgment between the parties. Courts of equity, however, are not confined or limited in their modes of relief by such narrow regulations, but grant redress to all parties where they have ing; obliteration.

ing; obliteration.

ing; obliteration.

dress according to circumstances. Courts of equity, too, bring before them all the parties interested in the subject-matter of the sut, and adjust the rights of all, however numerous: whereas courts of law must limit their inquiries to the contending parties.—See Courts

ERAS

ov Charcert.

quity of Redemption. (Law.) See Mortgage.

quity alence, Equity alency, n. [L. Lat. equivalentia, from Lat. equit, and valent.] State of being
equivalent; equality of value or worth.— Equal power

or force.

Equivalent, a. [Fr.: Lat zquus, and valens, from
valen, to be able. See VALOR.] Equal in force, power,
or effect; equal in value, excellence, worth, or weight. Of the same import or meaning; as, equivalent terms. (Geom.) Applied to figures of the same surface. (Geol.) Applied to strata of contemporaneous origin

in different regions.

n. That which is equal in power, force, value, weight, or dignity, with something else; offset; compensation;

e to one law will be a full equivalent for the l

wander. — noger. (Chem.) The proportion expressing the weight, or quantity by weight, of any substance which combines with another substance, to make a definite compound.— See ATOMIC NUMBERS.

Equivalently, adv. In an equal manner.
Equivalve, n. (Conch.) A bivalve possessing valves
of equal size and form.

of equal size and form.

Equivalved, (?kwi-valed,) a. (Conch.) With equal valves, as certain shells.

Equivocal, (c-kwiv'o-kal,) a. [Lat. aquus, and valva. See Valve.] Equally applicable to different things, in regard to meaning, as a word or expression; being of doubtful signification; as, equivocal manners.—Capable of a double interviet tion. of a double interpretation; ambiguous; as, equivocul standing in society.—Doubtful; ambiguous; uncertain; indeterminate; as, an equivocal experiment.

Equiv'ocally, adv. Ambiguously; in a doubtful sense; in terms susceptible of different senses.
Equiv'ocalness, n. State of being equivocal or am-

Equivocate, v. n. [Fr. équiroquer; It. equivocate.] To speak ambiguously; to use words of a doubtful signification; to use ambiguous expressions with a view to mislead; to prevaricate; to shuffle; to quibble; to evade.

—v. a. To render capable of a double interpretation.

Equivocating; ambiguity of speech; quibble; prevarication; shuffling; evasion.

Equivocator, n. One who equivocates.

Equivocator, a. Partaking of equivocation.

Equivorous, a. [Lat. equu, a horse, and voro, to devour.] Feeding on horse-fiesh.

Equivocator, of the control of

est stars are of the 4th magnitude.—There is another constellation, named by Lacaille Equuleus Pictoria, the Easel, or Painter's Horse, which is situated near the constellation Argo.

Equus., n. [Lat., a horse.] (Zoöl.) See Equus.

Eradiate, v. n. [Lat. e, and radius, a ray.] To shoot like a ray; to radiate.

Eradiation, n. Act of eradiating; radiation.

Erad'ieable, a. That may or can be eradicated, rooted out, or destroyed.

Erad'ieate, v. a. [Lat. eradico, eradicatum—e, ex. and radix, radicis, a root.] To pull up the roots of, or by est stars are of the 4th magnitude - There is another

radiz, radicis, a root. To pull up the roots of, or by the roots; to root out; to destroy, as anything that grows; to destroy thoroughly; to extirpate; to exter

Erad'icated, a. (Her.) Applied to a tree or flower

Erad'icated, a. (Her.) Applied to a tree or flower torn up by the roots.

Eradica'tion, n. Act of endicating or plucking up by the roots; extirpation; excision: total destruction.

Erad'icative, n. (Med.) A medicine that cures radically.

Eragrac'tis, n. (Gr. eros, large, and agrostis, grass.] (Bol.) The Love-grass, a gen. of plants, ord. Graminacre.

Eram'themaum, n. (Er. er. the spring, and anthos, a flower.] (Bol.) A genus of plants, order Acanthacee.

Eram'thus, n. (Bol.) A genus of European plants, order Rammoulacee.

order Ranunculacea.

or uniformacox.

Erard, (a:-rard',) a celebrated French pianoforte-maker, the sun of an upholsterer, B. at Strasburg, 1752. He early went from the provinces to Paris, and there established a pianoforte manufactory, improving considerably all that relates to that instrument, as likewise to the harp and organ. He also founded an establishment in London D. 1831.

D. 1831. Eras'able, a. That may or can be erased. Eras'able, a. [Lat. erado—e, ez, and rado, rasss, to scrape, scratch, or rub.] To rub, scratch, or scrape out; to efface; to obliterate; to expunge; to blot out; to destroy, as from the

to blot out; to destroy, as from the memory; to raze.

Erased', a. Applied to anything forcibly torn off, leaving the edges jagged and uneven; as, a lion's head rraced (Fig. 956).

Erase' imemt, n. Act of erasing; a rubbing out; obliteration; destruction.

Erasion, (ĉ-rā'chon,) n. Act of erasing: a bliteration; obliteration.

dam, 1467. He was the filegitimate son of a Gerard by the daughter of a physician; but his father and mother dying when he was only 14 years old, he was left to the care of guardians, who determined on bringing him up to a religious life that they might enjoy his patrimony; for which purpose they removed him from one convent to another, till at hast, in 1486, he took the habit among the canons-regular at 8tein, near Torgau. The monastic life being disagreeable to him, he accepted an invitation from the archbishop of Cambray to reside with him. During his abode with this prelate he was ordained priest; but in 1496 he went to Paris, and supported himself by giving private lectures. In 1497 he visited England, and met with a liberal reception from the most eminent scholars. On his return he spent 12 years in himself by giving private lectures. In 1497 he visited England, and met with a liberal reception from the most eminent scholars. On his return he spent 12 years in France, Italy, and the Netherlands; and during that time he published several works of great merit. In 1506 he took his doctor's degree at Turin, and went to Bologna, where he continued some time; thence he removed to Venice, where he resided with the famous Aldus Manutius. From Venice he went to Padus and Rome, where many offers were made him to settle; but having received an invitation from Henry VIII., he went to England again in 1510; wrote his Praise of Folly, while residing with Sir Thomas More; and was appointed Margaret professor of divinity, and Greek lecturer, at Cambridge. In 1514 he once more returned to the Continent, and lived chiefly at Basel, where he vigorously continued his literary labors, and prepared his edition of the New Testament, with a Latin translation, his Ciceronianus; and his celebrated Collequies. which latter gave such offence to the monks, that they used to say, "Eramus laid the egg which Luther hatched." With Luther, however, whom he had provoked by his treatise on Free-Will, he was in open hostility. In 1528 appeared his learned work, De Recta Latini Gracique Sermonis Pronunciatione; and his last publication, which was printed the year before his death, entitled Eccleniastes, or the Manner of Preaching. He D. at Rasel, in 1536. Eramus was a man of greet learnings, a great sizates, or the Manner of Frenching. He D at Rasel, in 1536. Erasmus was a man of great learning, a great wit, and an able critic; but his spirit, though liberal, was not ready to adopt the extreme tenets of the Ro formers. E. was equally unfriendly to the monastic habits and to the subtilties of the scholastic divinity, and exercised his wit on both of these; but he had no and exercised his wit on both of three; but he has no love for theological quarrels, and no wish to draw upon himself unpopularity or persecution. He welcomed the Reformation as a movement of free thought, but deprecated its excesses; he sided it rather as a scholar and critic than as a thinker or reasoner. He exposed the cated its excesses; he aided it rather as a scholar and critic than as a thinker or reasoner. He exposed the inconsistencies of the scholastic theology, but he pro-duced no new creed and argued in favor of no heretical doctrine. His defence of the right of reason against authority was weak and evasive. But his services in the cause of science were great and lasting, and his writings are still esteemed for the importance of the subjects treated of, and their classical style.

ERBS

treated of, and their classical style.

Eras'tianism, n. The principles of the Erastians.

Eras'tians, n. pl. (Ecc. Hist.) The name given to persons who adopted the views of Thomas Lieber, or Erastus, a German physician and divine, who was s. Sept. 7, 1524, and b. Dec. 31, 1583. They formed a separate party in the Assembly of Divines in 1643, and unsuccessfully advocated their peculiar views respecting the exclusively persuasive authority of the pasteral office, and the consequent impropriety of ecclesiastical excommunications. Ac. excommunications. &c.

ure, n. [E, and L. Lat. rasura, from rade, to scrape.] Act of erasing; a scratching out; obliteration; place where a word or letter has been grased or obliterated.

where a word or letter has been erased or obliterated.

E'rath, in Texas, a N. central co.; area, abt. 1,000 sq. m.

Ricers. Bosque river and Paloxy creek. Cap. Stephenville. Pop. (1887) about 25,400.

Er'sto. (Myth.) The Mose
who presided over lyric and
tender poetry. She is represented as crowned with rose
and myrtle, holding a lyre
in her hand. She appears in her hand. She appears with a thoughtful, and some-times a gay and animated, look, and was invoked by lovers, especially in the month of April, which, among the Romans, was more particularly devoted to the

passion.

Eratosthemes, (era-los-thenes,) an astronomer of Alexandria, who first conceived the plan of measuring the earth. The means employed were the shadow of a style at Alexandria coul the style at Alexandria, and the distance of Alexandria from Syene, when the sun is ver-tical at solstice. His result was surprisingly near the truth. Starved himself, B. C.

limestone.

194.

Eratostratus, (er'a-tos'fra-tus.) an Ephesian, who
burnt the temple of Diana (see Ernezus) the night that
Alexander the Great was born. His object was to transmit his name to poeterity, by an action so uncommon.
Er'bium, s. (Chem.) An exceedingly rare metal,
found with yttrium and terbium in gadolinite. The
oxide erbia is similar in its characteristics to alumina.
It has a dark yellow color, but forms colorless salts.

Erb'senstatus. (Mis.) Positis—A conversioners Erb'senstein, n. (Min.) Pisolite.-A concretionary

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Er'cildoum, in Pennsylvania, a P. O. of Chester co. Ercills y Zuniga, Alonzo, (air-seel'ya e thoo-ne'ga,) a Spanish poet and soldier, was born in the province of Biscay about 1530. He was brought up at the court of Charles V., and joined an expedition which was sent out to Chill against a tribe called the Araucanians. Hence the origin of his admirable epic of La Araucana, which describes the perils and exploits of that fierce and dangerous contest; this he w ote on ascraps of paper, and on bits of leather when paper could not be had, during those brief intervals which could be snatched from active duty. Died. 1566.

Er'cinite, n. (Min.) Same as Harmotome, q. v.
Erd'mannite, n. (Ger. erde, earth. and kobad!.) (Min.) Absolite or earthy cobalt; a variety of Wap, q. v.
Erd'mannite, n. (Min.) A mineral consisting principally of silica, alumina, and the oxides of lanthanum and cerlum.

EREC

and cerium.

Erdre, (air'dr.) a river of France, which, after a course of nearly 50 m. through the Lower Loire, joins the Loire

at Nantes. Ere. (dr.) adv. [A. 8. er; Goth. air, early in the morning. See RARLY.] Before; sooner than.
"Bre salls were spread new occans to explore."—Dryden.

"Is alle were spread new comma to explore." — Dryden.—
—prep. Before, as regards time; as, ere summer comes in.

Er'ebuus. (Myth.) A Grecian deity of the infernal regions, son of Chaos and Darkness, who dwelt in the gloomy space through which the souls passed to Hades. The poets often used the word Erebus to signify hell itself.

Er'ebuus, a volcano in the supposed continent discovered in the Antarctic Ocean by Sir James Ross, in 1641. Height 12,400 ft.—See Victoria Land.

Erechtheuum, Erechtheuum, (e-rek-the'um,) one of the most important temples of ancient Athens, which stood on the N. side of the summit of the Acropolis. The temple that originally occupied the site was built by

the most important temples of ancient Athens, which stood on the N. side of the summit of the Acropolis. The temple that originally occupied the site was built by Krechtheus, q. v. It was designed for the reception of the image of Minerva, carved out of the trunk of an olive-tree, which was always a special object of veneration to the Athenians. Erechtheus was buried in the temple; from which circumstance the name of Erechtheum was afterwards given to that which was built on the same site about 400-395 B. c., the ruins of which may still be seen. The entire building forms a group of three temples, — E. properly so called, the temple of Minerva Polias, and the Pandrosium. The Erechtheum occupied the largest space. It is in the form of a parallelogram, about 73 feet long and 37 feet wide. The portico before the prothyrium looks towards the east. The entablature and pediment of the portico was supported on six massive but elegant Ionic columns, enriched with carving. The temple of Minerva Polias was attached to the N. side of the E., at the W. end, and stood on a lower level. It was nothing more than an open portico, 33 feet wide and 21 feet in depth, the roof being supported by six columns, four in front and one on either side, 25 feet in height. It looked towards the N. The Pandrosium was attached to the W. end of the S. wall, and was built at a much later date than the other parts of the building.

Erecentheums, (e-reb'the-us.) son of Pandion I., was the officed his daughter Othonia, to obtain a victory which the oracle had promised for such a sacrifice. He reigned 50 years, and D. 1347 B. C.

rificed his daughter Othonia, to obtain a victory which the oracle had promised for such a sacrifice. He reigned 50 years, and D. 1347 B. C.

Erech 'iles, n. [Gr. erectho, to trouble; the species are troublesome weeds.] (Bot.) A genus of plants, ord. Asteracce. They are annual plants, with leaves simple, alternate. Flowers corymbose, whitish. The only American species, E. hieracifolius, the fire-weed, is a well-known rank weed, growing in fields throughout the United States and Canada, particularly in such as have been newly cleared and burnt over, hence its common name.

name. Errect. (2-rekt'.) v. a. [Lat.erigo, to set upright—erez, and rrgo, to make straight.] To raise and set in an upright or perpendicular direction, or nearly such; to set up; to raise; to elevate; to construct; to rear; to set up or establish anew; to form; to institute; to found; to raise or exalt; to excite; to animate; to encourage. v. n. To rise upright. (R.)

vs. M. To rise upright. (R.) a. Upright, or in a perpendicular posture; directed upward; elevated; upright and firm; bold; unshaken; undismayed; raised; stretched; intent; vigorous; extended.

(Her.) Applied to any animal, or part of an animal, which, being naturally horizontal, is placed perpendicu-

which, being naturally horizontal, is placed perpendicularly.

Erect'able, a. That can be erected.

Erect'tle, a. That which may be erected.

Etaue. (Anat.) An extremely sensitive and highly organized tissue of the body, forming a distinct conformation. There are two examples of it in the female, and one in the male.

Erecti'lty, n. State or quality of being erectile.

Erection, n. [Fr. érection : Lat. erectio, from erigo.] Act of erecting or raising and setting perpendicular to the plane of the horizon: a setting upright; act of raising or building; state of being raised, built, or elevated; establishment; settlement; formation; elevation of sentiments: act of rousing: excitement.

—Anything erected; a building of any kind; an edifice.

Erect'ly, adv. In an erect posture.

Erect'ly, adv. In an erect posture.

Erect'ly, adv. In an erect posture or form.

Erect'o-pa'tent, a. (Bol.) Having a position between erect and apreading.

(Zoll.) Applied to the primary wings of an insect, at rest, when they are erect and the secondary horizontal.

Erect'or, n. The person who, or thing which, erects.

(Anal.) The name of a pair of small muscles, whose duty is to elevate the organs to which they are attached. Erek IIs. Ereg IIs, (e-ref Ic.) a seaport-town of Natolia, on the Black Sea, 130 m. from Constantinople; Lat. 40° 15' 30" N., Lon. 31° 30' E. It has a good port and shipbilding yards. Pop. unascertained. This town stands on the site of the ancient Heracles, where the 10,000 Greeks, commanded by Xenophon, embarked on their return to Greeca.

Freiong, (\$\tilde{a}r'\logs,) adv. [Ere and long.] Before a long time shall clapse; before long.

"The world, orelong, a world of tears must weep."— Hilton.

"The world, orlong, a world of tears must weep." — Milton.

Eremmeau'sis, n. [Gr. eremos, alone, and kausis, burning.] (Chem.) A retrogressive change brought about in dead animal and vegetable matter by the chemical action of the oxygen of the atmosphere. The process is precisely the same as occurs when fuel is burnt in an ordinary fire-grate; the rapidity of the operation in the latter case, however, causes such a sensible appreciation of the evolved heat and resulting light as to necessitate another word to express the phenomenon, viz. combustion. The term decay has a wider and looser application than that of eremacausis. It is used to indicate natural disintegration of any kind. Thus old walls are said to decay, not from any absorption of oxygen, but chiefly from the mechanical action of rain and frost, whilst old dead trees in decaying literally burn slowly away.

away. Oxidation from exposure to air and moisture, as in the

-Oxidation from exposure to an and mossess, ...

Sir'emnite, n. [Fr. ermite; Lat. eremita; late Gr. erëmites, from erëmos, a desert; probably akin to ërema, gently, quietly. See HERMIT.] One who lives in a desert or wilderness; a hermit; a recluse; an anchoret. (R.)

"Bromites and friars,

White, black, and gray, with all their trumpery." — Miton.

White, black, and gray, with all their trumpary. — smoon.

Eremitie, R. (Min.) Same as Monante, q.

Eremitiete, Eremitieal, a. [Fr. éremitique.] Living in seclusion from the world; hermitical.

"Nultitudes of religious orders, oromitical and combitical."

Stitlingliest.

"Multitudes of religious orders, eventical and escabitical."
Stillingfact.

Er'emitisms, n. State of living as a hermit; seclusion from the world.

Er'ethisms, n. [From Gr. evethizo, to excite or irritate.]

(Med.) A state of great general over-excitement induced by abuse of mercury, or depressing agents. It shows a small feeble and quick pulse, precordial sinkings, faintings, &c., and occasionally terminates suddenly in death. The tongue may be clear throughout the disease, and the secretions natural.

Erethis'tie, a. [Gr. evethistica.] Pertaining or having reference to erethism.

Erf, n.; pl. ERVEN. [Du.] A garden-plot of about half an acre. (Used at the Cape of Good Hope.)

Erfurt, (air/foort.) a town and fortress of Prussia, in Saxony, on the Gera, cap. of ancient Thuringia, about midway between Gotha and Weimar. It has a cathedral, numerous churches, a convent, orphan's acylum, an academy of science, and several literary institutions. Php. 1876, 48,530.—Said to have been founded by Krpes in the 5th century, and called Erpesford: it was in the time of Charlemagne one of the most important commercial towns of Germany. Its university, founded in 1392, is celebrated as having numbered Martin Luther among its students in 1501—In 1664 the town was taken by the French, who ceded it to the Elector of Mayence

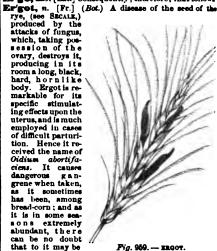


Fig. 958. — LUTHER'S ROOM, ERFURT.

In 1803 it was annexed to Prussia, but we again taken by the French under Murat, Oct. 12, 1806, when 14,000 Prussians, including Marshal Mollendorf when 14,000 Prussians, including Marshal Mollendorf and the Prince of Orange, were made prisoners. Napoleon I. and the Emperor Alexander of Russia had an interview here. Sept. 27, 1808. It resulted in a letter which they addressed to George III., Oct. 12, desiring him to accede to offers of peace. A reply was sent, Oct. 28, to the effect that England could only treat in concert with Sweden and Spain. Erfurt was restored to Prussia, Jan. 6, 1814. Its university was suppressed in 1816. A German parliament assembled here March 20, 1850.

Er'gata, n. [Lat.] A capstan or windlass.
Ergh'em, a river of Central Asia, rising in the Karakorum Mountains, and, after accurse of 700 m. under diferent names, falling into the west end of Lake Lob Nor.
Er'go, adv. [Lat.] Consequently; therefore; that follows

attacks of lungus, which, taking pos-session of the ovary, destroys it, producing in its room a long, black, hard, horn like body. Ergot is re-markable for its specific stimulating effects upon the uterus, and is much employed in cases of difficult parturition. Hence it received the name of Oidium abortifaciens. It causes dangerous gan-grene when taken, as it sometimes has been, among bread-corn; and as it is in some seasons extremely abundant, there can be no doubt that to it may be



that to it may be attributed much of the injury sustained by flocks and herds, either in the shape of gangrene, or by causing them to alip their young.—See Encorrism.

Er'gotisme, n. (Chem.) The acrid bitter principle of ergot.

Er'gotisme, n. [Fr. ergotisme.] (Med.) The condition produced in those who partake of ergotized or discussed rye as an article of food. The symptoms occurring from ingestion of this poison in small and continuous doses are of very marked character. The disease, often epidemic, is called by the Germans the Kriebelkrankheit or creeping sickness. It attacks persons of both sexes and are of very marked character. The disease, often epidemic, is called by the German the Kriebelkrankheit or creeping sickness. It attacks persons of both sexes and of all ages. The disease is divided into two forms, victorwelline and gangrenous ergotism. The first is characterized by marked head symptoms, such as vertigon weariness, partial loss of sight and of sensibility, formication, contraction of the muscles of the extremities, and partial jaundice. In the early stage the appetite is voracious; but the severer symptoms soon supervee, and death occurs by convulsion. In the gangrenous form the appetite is voracious, and the sense of formication is also observed as in the convulsive form of the disease. The extremities then become colder than in their natural state, and gangrene sets in. Ergotized reis used medicinally in several forms of disease, but more especially to increase the expulsatory efforts of the womb in protracted labors, and to restrain uterine hemorrhage. In cases of poisoning by a large does of ergot, the symptoms are nauses, dryness of throat, pain in the abdomen, stupor, and dilated pupil. In pregnant females abortion occurs.

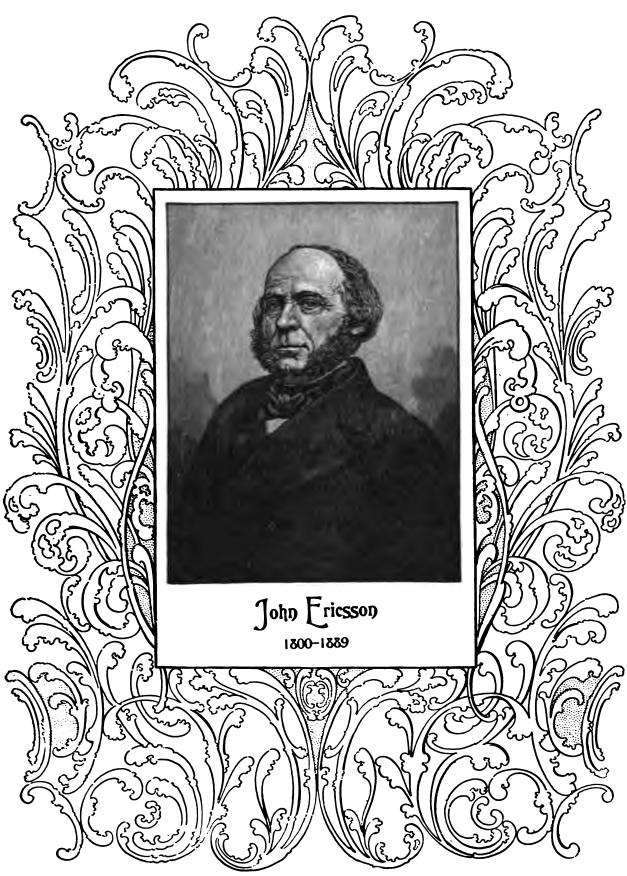
E'rias, n. [Gr. erion, wool.] (Bot.) A genus of plant, order Orchidacea, so called on account of the woollines of its flowers.

E'ris, v. [Gr. erton, wool.] (Bot.) A genus of plants, order Orchidacea, so called on account of the woollines of its flowers.

Eric, (exr'ik.) [Swed., Henry.] The Swedish kings of this name of whom anything is known are:—Eric Entone in the preceding, and joint successor with his brother Olave; celebrated for his victory over Styrtlorn, son of the latter, who claimed the inheritance on his father's death; died 993, or soon after.—Two kings, both bearing the name of Eric, contended for the throne in the civil war which broke out about 1066, and in this war both the kings and all the chief Swedes are said to have fallen. Besides these, four other Erics must have been known traditionally:—Sr. Eric, who reigned 1165-1160, being called Eric IX. After him comes Eric Kiviskor Eric X., grandson of the preceding, called the good harvest king, reigned 1210-1216. Eric Ericsen, or Eric XI., a grave and righteous prince, in whom the race of St. Eric expired, reigned 1222-1250. Eric XII., of the house of the Folk ungers, who rose to power during the reign of the preceding; king during the lifetime of his father, Magnus Ladislas, and at length poisoned by his mother, Blanche of Namur, 1350-1359. Eric XIII. of Sweden, and VII. of Denmark, before his election due of Pomerania, chosen in Sweden 1336: co-regent with Margaret of Waldeniar up to his dethronement, by Erich brecht Engelbrechtsen, in 1434, and after that having been again acknowledged, dethroned in all the three kingdoms of Sweden, Norway, and Denmark, at the death of that princess, 1439. Eric XIV., son of Gustava Vasa, B. 1533, succeeded 1560, compelled to abdicate by his brothers 1569, poisoned in prison 1577.

E'ric. There were 9 kings of Denmark of this name:—two unknown in the 9th century, and then Eric I. called "the Good," reigned 1095-1105. Eric II., reigned 1134-1137. Eruc IV., appointed by his brother, Abel, reigned 1260, examination to the brittle ness of the stems and branches.] (Bot.) The typical genus of the order Erickors, q. e.

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Erica'cees, n. [Lat. crica, heath.] (Bot.) The Heathwort family, an order of plants, alliance Ericales. Diac. The Heathwort family, an order of plants, alliance Ericates. Disc. Monopstations flowers, free stamens all perfect, loose-skinned or tight-skinned seeds, and 2-celled anthers opening by pores. They are shrubby or suffrutioned plants, sumetimes herbaccous. Leaves simple, alternate or oppo-

ate, mostly evergreen, entire or toothed, without stipules. In-florescence various. Calyx in-ferior or superior, 5-(seldom 4-6-) ferior or superior, 5-(seldom 4-6-) leaved, or cleft, rarely entire. Corolla regular or somewhat irregular, 4-5-(rarely 6-)cleft, with an imbricated settivation. Stamens generally distinct and inserted with the corolla. Anthers as many, or twice as many, as the lose of the corolla, 2-celled, generally opening by rores often processors.



loise of the corolla, 2-ceiled, generally opening by pores, often appendaged. Embryo straight, lying in the axis or in the end of fleshy albumen. They are very abundant at the Cape of Good Hope, and are more or less generally diffused throughout North and South America. Europe, and Asia. Many of the flowers. Europe, and Asia. Many of the E., particularly species of the genera Erica, Rhododendrom, Kalmia, and Asia, are largely cultivated on account of the beauty of their flowers. The three latter are principally American. The ord. includes 42 genera and 850 species, and are chiefly remarkable, medicinally, for their astringent properties. Some, however, are narcotic, and a few even poisonous. The fruits of many are edible. Evica ecours, a. Constating of, or resembling, heaths.

are chiefly remarkable, medicinally, for their astringent properties. Some, however, are narcotic, and a few even poisonous. The fruits of many are edible.

Ericalceouss, a. Consisting of, or resembling, heaths. Ericalcen, p. [Bot.] An alliance of plants, of the sub-class Hypogynous Exogens. Diac. Dichlamydeous flowers, symmetrical in the ovary, axile placentee, definite stamens, and embryo enclosed in a large quantity of fiesby allumen. — This alliance is divided into the six orders Hussiriaceae, Espacridacea, Pyrolaceae, Francoscae, Monotropaceae, and Ericaceae.

Erich's'hidden, n. p. (2001.) A family of long-tailed Decapod crustaces, inhabiting the tropical ocean. They are remarkable for the delicate and often transparent and coloriese character of their large and undivided thoracic shield or carapsace, which is always terminated anteriorly by a styliform rostram.

Ericasea. Jonx. (cr'ik-son.) a distinguished engineer, n. in Sweden, 1800. After serving for some years as an officer of engineers in the Swedish army, he removed in 1836 to England, and continued to occupy himself with improvements chiefly on steam-machinery and its application. In 1839 he went to New York, where he has lived since. The invention of the screw-propeller, and of many other useful inventions, have made his name familiar to the world. His caloric engine attracted much attention, as likely to supersede the use of steam, but experiments in 1833 proved successful only for minor purposes. His solar engine was another remarkable invention. Perhaps his greatest achievement was the invention of the turret ship, Monitor, which conquered the Confederate Merrimac in Hampton Rosda, March 9, 1862, and completely revolutionized modern naval warfare. His last important invention, was the war vessel Destroyer, completed in 1884, carrying a 16 inch gun, 20 ft. long, throwing under water and expessive projectile of 1,500 lbs., the gun being placed sweral feet under the water line. Died Mar. 5, 1889.

Erid'amas, n. (Astron.) A constellation named by A

rater cement, and brick clay. Cap. Buffalo. Pop. (1890) 52:981.

Erie, in Ohio, a N. co., bordering on Lake Erie; area abt. 260 sq. m. Rieers. Huron and Vermillion rivers and Pike creek. Surface, level; soil, very fertile. Miss. Limestone. Cap. Sanduaky.

—A township of Ottawa co.

Erie, in Pensapicania, a N.W. co., bordering on New York, Ohio, and Lake Erie. Area, about 770 sq. m. Rieers. French, Conneaut, Walnut, and Elk creeks. Surface, rolling, and in some parts elevated; soil, fertile. Mis. Iron and limestone. Cap. Erie. Pop. (1890) 880/14.

—A fine city, port of entry, and the cap. of Erie co., on Lake Erie, abt. 129 m. N. of Pittsburg; Lat. 42° 8', N. Lon. 80° 10' W. The town is well built, upon one of the largest and best harbors of the lake, and carries on an extensive trade in lumber, coal, ship-building and general manufacturing. Pop. (1897) about 51,000.

Erie, (Fort.), in prov. of Ontario, at the head of Niagara River, opposite Black Rock, N. Y.

Erie, (Lake.) one of the five great lakes of N. America, between Canada and the United States, included in the middle portion of the basin of the St. Lawrence. It lies between Lat. 41° 22° and 42° 52° N., and Lon. 79° and 85° W., having N. the fertile peninsula of Upper Canada, and S. and E. the States of Ohio, Pennsylvania, and New York. Its shape is elliptical; length S. W. to N.E. about 255 m.; breadth varying from 10 m. to about St. in its centra. Its area is variously estimated at

8,030 sq. m. to 12,000 sq. m. It receives near its W. extremity the superabundant waters of the lakes St. Clair. remity the superabundant waters of the lakes St. Clair, Huron, and the upper lakes by the Detroit River, its own surplus waters being conveyed to Lake Ontario by means of the Niagara, celebrated for its stupendous waterfall. Its mean height above the level of the ocean is estimated at 565 feet, being about 52 feet below that of lakes Michigan and Huron, and 322 feet above that of Ontario. Its depth, which is less than that of any of the other great lakes of the St. Lawrence basin, is nowhere more than 270 feet, and in most parts is considerably under 200 feet. It is also said to be gradually becoming shallower, the land in some places having gained upon it along the S. shore. Its bottom appears to be composed of an alluvial deposit of sand and mud, resting on secondary schistose limestone. Its N. shore is rocky and dangerous; the opposite one has also long lines of rock; and, except at either extremity, none of its shore harbors afford a safe and steady entrance of 7 feet of water. In addition to other impediments to navigation, a current, not perceptible in the trance of 7 feet of water. In addition to other impediments to navigation, a current, not perceptible in the other great lakes of the St. Lawrence system, sets constantly W., and N.W. or S.W. winds continually prevail; besides which, in consequence of its shallowness, a part of the lake is frozen over every winter, and traffic on it is obstructed by ice for some weeks in the spring after the navigation of the other lakes is open and unimpeded. Towards the W. extremity there are several groups of small islands, and one — Cunningham Iland, belonging to the United States — has an excellent harbor called Put-in Bay, with 12 feet of water. On the N. shore, several promontories jut into the lake, the principal of which are the N. and S. Forelands, and Point Landguard. Except the Detroit, Lake Erie receives few rivers of any

ERIG

Put-in Bay, with 12 feet of water. On the N. shore, several promonotries jut into the lake, the principal of which are the N. and S. Forelands, and Point Landguard. Except the Detroit, Lake Erie receives few rivers of any consequence, and all, without exception, have bars at their mouths. The Onse or Welland, which unites with the Extremity, is its principal affinent, and has been taken advantage of for the construction of the Welland Canal, of which it forms a part, connecting the lakes Erie and Ontario, and avoiding the Falls of Niagara. The Erie Canal, 383 m. long, runs from the city of Buffalo to the Hudson River; the Ohio Canal, 384 m. in length, extends from Cleveland, at the mouth of the Cuyahoga, to the Scioto, a little S. of Columbus. The former of these canals places Lake Erie in communication with the Atlantic; the latter connects it with the Gulf of Florida. Buffalo, Dunkirk, Ashtabula, Cleveland, Erie, Sandusky, Portland, and Detroit are the principal towns on this lake, within the territories of the United States, and Port Talbot, Dover, and Sherbrooke in those belonging to Great Britain.

BATTLE OF LAKE ERIE. (Asser. Hist.) In the war between the U. S. and Great Britain in 1812, the possession of lakes Erie and Ontario, as a theatre for warlisk operations, became an object of importance to both of the belligerents, and, accordingly, strenuous efforts were made by either party to secure for themselves the advantages to be derived therefrom. The chief command of the American naval squadron on Ontario was held by Commodore Chauncey; that of Erie by Master-Commander of the American naval squadron on Ontario was held by Commodore Chauncey; that of Erie by Master-Commodore Britain, and as condingly, strenuous efforts were made by either party to secure for themselves the advantages to be derived therefrom. The chief command of the American naval squadron on Ontario was held by Commodore Britain as quadron of Tasilgar held is land, the offing, when Perry went out to meet it. The enemy consisted of 6 bri and 12 men. The battle soon became furious, and in about two hours after the action, the Lawrence became completely disabled, and struck her flag, upon which Commodore Perry shifted his flag to the Niagara, and continued the action, which, after hours more of desperate fighting, was brought to an end by the utter defeat of the British, whose lose in killed was 41 (including Captain Finnis of the Queen Charlotte), and 94 wounded (9 of whom were officers); Commodore Barclay himself receiving two serious grape-shot wounds. The American loss was 24 killed, including 3 officers. Important results were achieved by this hard-won action; American supremacy on the lakes being established, and Detroit evacuated. Detroit evacuated...

Detroit evacuated.

E'rieville, in New York, a post-village of Nelson township, Madison co., abt. 35 m. 8. W. of Utica.

Erig'ema, or Eri'gem, John Scorus, who seems from his surname to have been a native of Ireland and not of Scotland, was B. about the beginning of the ninth century. E. spent the most of his time in France, and at the court of Charles the Bold. About the year 850 he wrote against Gottschalk on predestination; and he also published a work on the Lord's Supper, de Corpore et Sanguine Domini, in which he combated the doctrine of transubstantiation. But the great work of this schoolman is that named De Divisione Natura, &c., printed at Oxford by Thomas Gale in 1861. It is divided. schoolman is that named De Divisione Nature, &c., printed at Oxford by Thomas Gale in 1881. It is divided into five books, and is composed in the form of a dialogue. This vast and amazing essay treats of a great variety of subjects — of God, and the knowledge of God — of being, and its kinds and modes — of the world, of sin and its nature, &c. — in which abstruse and subtle discussions a species of mystical pantheism may be easily discovered. Few, if any of his contemporaries, could match this remarkable man either in genius or acquirements, in dislectics or sentiment, in intellectual acumen or in stores of erudition. Various portions of his works

have been discovered and published at different times by Du Cange, Mabilion, Angelo, Mai, and MM. Ravaison and Consin. Died about 875.

Erige'uia, n. [Gr. erigeneia, daughter of the early spring; from its early flowering.] [Bot.] A genus of plants, ord. Apiacea. They are perennial herbs, with tuberous root, radical leaf triternately decompound. Involuceate leavage achieve histography.

piants, our. Aplacest. Invy are pertunian teries, with tuberous root, radical leaf triternately decompound. Involucrate leaves, solitary biternately compound. Involuces of 3-6 entire, linear-spatiate bracts.

Erig'eron, n. [Gr. er, the spring, geron, an old man; because it is hoary early in the season.] (Bot.) A genue of plants, ord. Asteracce. They are mostly perennial herbs with alternate leaves. Among the American species are E. Philadelphicum, the narrow-rayed Robin's Plantain, 1-3 feet high, having 150-200 reddish-purple flesh-colored rays, nearly as slender as hairs; and E. heterophyllum, the Common Fles-bane, a common weed, in fields and waste grounds, 2-4 feet high, with 100 or more short white or purplish rays.

Erig'one, a daughter of Icarius, who hung herself when she heard that her father had been killed by some shepherds whom he had intoxicated. She was made a constellation, now known under the name of Virgo.

Erin, in Georgia, a village of Merriwether co., about 60 m. N.W. of Macou.

Erim, in Georgia, a village of McHenry co., about 64 m.

m. N.W. of Macou.
E'rin, in Ilimois, a village of McHenry co., about 64 m.
N.W. of Chicago.—A township of Stephenson co.
E'rin, in Iosoa, a township of Hancock co.
E'rin, in Musscota, a township of Rice co.
E'rin, in Ness York, a post-township of Chemung co.,
abt. 10 m. E.N.E. of Elmira.

E'rim, in Temessee, a post-town, cap. of Houston co., on L. & N. R.R., 28 m. W.S W. of Clarksville. Has grist, saw and woolen mills; iron works near by. Pop. (1897) abt. 8(1).

E'rin, in Wisconsin, a thriving two of Washington co. Erinaceus, n. [Lat., a hedge-hog.] (Zodl.) See

Erine, in Wisconsin. a thriving twp. of Washington co. Erinegeus, n. [Lat., a hedge-hog.] (2021.) See Hinge-hog. Bee Hinge. Hog. Bee Eringgo, n. (Bot.) See Eringgo, n. (Bot.) See Eringgo, n. (Bot.) See Eringgo, n. (Min.) An arseniate of copper from Limerick, Ireland.

Erin'ma, a Grecian poetess, who was contemporay with Sappho, and wrote several pieces, fragments of which are extant, and which were published in the Edinburgh edition of Anacreon of 1764. Flourished 600 n. c.

Erine Prairie, in Wisconsin, a township of St. Croix co., abt. 16 m. E.N. E. of Hudson.

Erineys, or Erimmys. (Myth.) See Eurendes.

Eriocaula'cees, n. [Gr. erion, wool; kaulon, a stem.] (Bot.) The Pipe-wort family, an order of plants, alliance Glumales. Disc. 2-3-celled ovary, a pendulous ovule, 2-celled anthers, a terminal embryo, and a 3-lobed cup within the glumes. They are aquatic or marsh plants, with clustered linear leaves, usually grass-like, and minute unisexual flowers growing in dense heads. They are mostly natives of tropical America and the N. of Australia, and have not been applied to any useful purpose. The order includes 9 genera and 200 species.

Erioem'dron, n. [Gr. erion, wool; dendron, a tree.] (Bot.) A genus of plants, order Serculiacox. The most remarkable species is E. samauma, a native of South America. Its trunk frequently overtops all the surrounding trees before it gives off a single branch. The hairy covering of the seeds of various species of this genus form a kind of vegetable silk much used for stuffing cushions and for similar purposes.

Erioem'eter, n. [Gr. erion, wool; metron, a measure.] (Opt.) An instrument for measuring the diameter of minute particles and fibres, by ascertaining the diameter of minute particles and fibres, by ascertaining the diameter of minute particles and fibres, by ascertaining the diameter of my one of the series of colored rings which they produce.

produce.

Eriophe'rum, n. [Gr. erion, wool; phoreo, I bear; alluding to the copious bristles of the perigynum.]
(Bot.) A genus of plants, order Cyperacco. They are grass-like herbs, with atem generally leafy. Spikelets mostly in umbels, finely clothed with long silky hairs, whence their common name of Cotton Grasses. These hairs are sometimes used for stuffing cushions, while the leaves of some species are said to possess astringent properties. There are several American species.

properties. There are several American species. Eriphh's, n. [Gr. eriphe, a kid.] A genus of Brachyurous Crustaceans.
Eriphy He, (er-i-Nie.) A sister of Adrastus, king of Argos, who married Amplicaraus. See ALCHAON.
E'ris. (Myth.) The Greek goddess of discord, the same as the Discordia of the Latins. See Discordia.

E'ris. (Myth.) The Greek goddess of discord, the same as the Discordia of the Latins. See Discordia of the Latins. See Discordia, lying between Harris and North Uist.

Erisiethtom, (eri-sik'thon.) (Myth.) A Thessalian son of Triops, who derided Ceres, and cut down her groves. For this implety the goddess afflicted him with continual hunger. To satisfy the cravings of his appetite, he squandered all his possessions, and at last devoured his own limbs for want of food. His daughter had the power of transforming herself into whatever animal she pleased, and she made use of it to maintain her father, who sold her, in one shape, after which she assumed another, and became again his property.

Eris'Eay, one of the smaller Hebrides, Scotland, lying to the S. of South Uist, where, in 1746, Prince Charles Edward Stuart landed on his ill-starred expedition. Ext. about 2 miles long.

Eris'ma, n. [Gr., a cause of quarrel; from its variance with others of the same order.] (Bot.) A genus of plants, order Vochyacez, found in tropical America. One of the species, E. Japura, is the Japura of Brazil, a tree growing to the height of 100 feet or more, and bearing a red fruit, the kernel of which is eaten raw or bolled.

Eris'tie, Eris'tical, a. [Gr. eristicos.] Contreversial; relating to dispute or debate. (E.)

Er'ivan, Eriwan, Irvan, or Irivan, the fortified capital of Russian Armenia, situated to the N. of Ararat, in the elevated plain of Aras or Araxes, Lat. 40° 10′ N. Lon. 44° 32′ E. 3.312 feet above sea. Pop. 15,000. E'rix, n. (Zohl.) Same as Errx, q. v. Er'langen, a town of Bavaria, on the Regnitz, 10 m. N. of Nuremberg. It contains the Protestant university of Bavaria, founded in 1743.

Eriau, (airlina.) [Hung. Eger.] An episcopal city of Hungary, cap. of co. Heves, on both banks of the river Erlau, in a delightful valley skirted with vine-clad hills. The E. wine is the best red wine of Hungary. Pop.

18.244.

Erimelin, Erimilin, n. Diminutive of Enning, q. v.

Erimelin, Erimilin, n. Diminutive of Enning, q. v.

Erimenon wille, (airminamp-reel.) a village of France, dep. Oise, 5 m. from Senlis. It is celebrated for its beautiful and extensive parks, and as being the resting-place of Rousseau, for which reason it is much visited in summer by strangers from Paris.

Erimine, n. [Fr. hermine.] (Zoll.) The Mustela Erminea, an animal of the Musteliade or Wessel family, native of all the northern parts of the world. It is considerably larger than the common wessel, but much resembles it in general form and other characters, as well as in

larger than the common weasel, but much resembles it in general form and other characters, as well as in habits. It is not generally known that the £ and the stoat are the same animal: the confusion arises from the change that takes place in the color of the animal's fur at the different seasons. In the winter it is yellowish-



Pig. 961. - THE ERMINE (Mustela Ermi

white, the yellow hardly showing about the head, but gradually appearing more and more on the body, and increasing in intensity, so that some are of a pale yellow color on their hind parts: then it is known as the ermine. About the end of March, however, the upper parts change to reddish-brown, of rather a dull tint, the lower parts continuing white; the tail remains black at the tip throughout all the changes. It is in the extreme northern regions that this change in the animal's color takes place with greatest distinctness. With regard to the manner in which this change is brought about, naturalists are not unanimous. It is from Norway, Lapland, Siberia, and the Hudson's Bay territories that the E-kins of commerce are obtained, which are used for ladies winter-garmenta. At one time is was one of the insignia of royalty, and it is still worn by the judges in Europe. In making up E-far, the tails are inserted in a regular manner, so that their rich black shall contrast with the pure white of the rest of the fur. (Her.) One of the furs used for the lining of mantles, crowna, coronets, and caps of maintenance, as well as for the field and charges of armortal bearings. It represents the white skin of the little animal known as the E-with the tail, which is tipped with black, attached to it, as in ladies muffs, &c. made of that material. It is figured by black spots and stripes, or tails, on a white field, each stripe having two lines, or on either side, and being surmounted by three spots, one placed at the extremity, and the others just bewhite, the vellow hardly showing about the head, but

by three spots, one placed at the extremity, and the others just be-



by three spots, one placed at the extremity, and the others just below it, on each side of the point. Fig. 962—ERMINE. There are four varieties of this fur in Her.,—Ermines, having white spots and stripes on a black field. Erminest, black spots and stripes on a gold ground: Bean, gold spots and stripes on a black ground; and Erminetes, like E. but having a red hair diverging from either side of the stripe, instead of a black one.—
E is commonly used to difference the asms of any member of a family connected with the law.

Erminetia. (erminet.) a. Adorned with the fur of the ermine; as, "ermin d pride."—Frog.

Erme, Ermes, a. (A. S. earn, eagle.) The name given in Scotland to the osprey, and also to the golden eagle.

Erme, cerm,) a river of Ireland, rising in Lake Ganny, and after a course of abt. 60 m., during which it helps to form two lakes of the same name, distinguished as Upper and Lower, falling into Donegal Bay.

Ermées, (air'mat.) a town of France, dep. Mayenne, on a river of same name, 17 m. from Laval. Manyactures. Needles.

Needles

Needles.

Ermenti, Johann Argust, "transite," a German philologist, a in Fennstadt, Thuringha, 1707. His critical editions of Greek and Roman classics are justly celebrated. As a theological writer. E belonged to the school of rationalists. His most important work is Instituted Interpretis Novi Testament, translated into English in 2 v. 12mo. Elinburgh, 1843. His expedient Latin style obtained for E the surname of the German Ciceno, D.1781. Erode', r.a. [Lat. crodo-c, ex, and rod), to gnaw. See

ERRA

canker; to corrode.

Erod'ed, a. Eaten away; gnawed; corroded.

(Bot.) With jagged edges, as if gnawed:—said of

canker; to corrode.

Erod(ed). Ekten away; gnawed; corroded.

(Bot.) With jagged edges, as if gnawed:—said of a leaf.

Erod(ed), m, [See Enons.] (Med.) A substance that eats away or crodes.

Erod(ed), m, m. [Gr. crodios, a heron; from the resemblance of the beaked fruit to the heron's bill.] (Bot.) A genus of plants, order Gramiacear. They are annual herbs, with calyx 5-leaved; petals 5; scales 5, alternate with the filaments and nectariferous glands at the base of the stamens; filaments 10, the 5 alternate ones abortive; fruit rostrate, of five aggregate capsules, each tipped with the long spiral style, bearded inside. Emochatism, the Musk Geranium, both brought from Europe, are cultivated on account of the beauty of their flowers and the strong musky scent of their herbage.

Eros. (Gr., love.) (Myth.) The Greek god of love, corresponding to the Roman Cupid. In Heslod, E. is one of the great cosmogonic powers, along with Chaos, Gesa, and Tartarus. Latin poets describe him variously as a son of Hermee and Area, of Artemus and Aphrodite. His chief characteristic is youthfulness and the power of inspiring the passion of love. In the "Veda," Eros appears under the name Aracha, one of the most frequent epithets or names of the sun; but, as in the Greek mythology, Arusha is represented as a child. He is the young sun, driving away the dark night, and awakening the earth with his rays, which later poets converted into arrows. like the lances of Phoebus and Herscles.

Erose, a. [Lat. crosus. See Enode.] (Bot.) Eroded; having jagged edges.

Erosion, n. [Lat. crosus. gnawed or worn away.] The act of gradually wearing away; the state of being gradually worn away.

(Geol.) The term employed to distinguish those features which are the results of the slow destructive action of running water, glaciers, the waves, and other agents; thus, valleys of E are those valleys which have been gradually cut out of the soid strata. Many ravines, glens, and river-channels are the results of E. for markable. All sea-cliffs, crags, and pin

Errotratus. See Enatostratus.
Erroteme, s. [Gr. crotem, question.] (Rhet.) A note of interrogation.

RODENT.] To gnaw off or away; to eat in or away; to eater; to corrode.

Em'ramt, a. [Fr.; Lat. errons, from erro, to wander.] 
Wandering; roving; rambling: wandering about in search of adventures; as, a kinght-erront.— Deviating 
from a certain course; wild; extravagant; worthless; Vile: wicked: arrant.

"Furtive and errest from his course of growth." -Errantry, n. An errant or wandering state; a wan-dering or roving about; a rambling bent of disposition. "After a short space of errentry on the seas, he got safe takerque." — Addison. Dunkerque.

Dunkerque."— Addison.

—The vocation or employment of a knight-errant.

Errat'a, n. pl. of Erratyux, q. v.

Errat'e, Errat'leal, a. [Fr. erratique: Lat. erraticus.]

Wandering; having no certain course; roving about without a fixed destination: eccentric: aa, an erratic individual.— Moving; not fixed or stationary; irregular; mutable; as, an erratic planet.

(Med.) Applied to diseases which have a disposition to flit from place to place, like gout, rheumatism, or erysipelus.— Flying, wandering, or irregular pains are called erratic.

Errat'cally. adv. Without rule: irregularly.

called erratic.

Erratically, adv. Without rule; irregularly.

Erraticalness, n. State or quality of being erratic.

Erratic-block Group, n. [Lat. erraticus, wandering.] (Ged.) A synonym of the boulder clay, from the large transported blocks of stone which occur in it.

The blocks or boulders are sometimes briefly termed

erratics.—See Boulders, Pleistockes.

Erra'tum, n; pl. Errata. [Lat., from erro—erratum, to wander, to err.] An error or mistake in writing or printing.

which have been overlooked in the composition or im-

which have been overlooked in the composition or impression of a work.

Erred, (\*rd,) imp. of Err, q. v.

Errhine, (\*r'n;n,) a. [Gr. crhinon—cn, and rhiz, rhinos, the nose. See Reinocross.] (Med.) Affecting the nose, or to be snuffed into the nose; occasioning discharges from the nose; provoking sneezing.

—n. (Med.) One of those medicines which are applied to the mucous membrane of the nostrils. Those which cause sneezing are called sternutatories. E. may be applied in a dry. soft, liquid, or gaseous state: and may be emollient, astringent, or stimulant:—the first sheathing irritated surfaces; the second restraining issortinate secretion, the consequence of relaxation: and the third favoring the natural mucous discharge: on the return of the secreting surface to a healthy state. The aromatic E most commonly applied are powdered heris, as unint, lavender, and rosemary; also tolacro as snuff. Ammonia and its carbonates are much employed. Acrid vegetables and poisons, and preparations of mercury, are applied in rare cases. applied in rare cases

Sneesing powder, which the physicians call errhine."

Er'ris, a maritime district in the co. of Mayo, Ireland. remarkable for the dreary wildness of its mountain scenery; pop. abt. 20,000.
Ev'rol, in New Hampshire, a post-township of Coos co., on Umbagogue Lake, abt. 30 m. N.E. of Lancaster; pop.

abt. 250.

Erro'neous, a. [L. Lat. erroneus.] Wandering; un-EFFO'MEOUS, a. [L. Lat. erroneus.] Wandering; unsettled; roving; deviating from a right course; mistaking; wrong; deviating by mistake from the truth; as, an erroneous step. — Irregular; deviating from the true course; as, "erroneous circulation of the blood." (Arbuhnol.)—Not conformable to truth; erring from truth or justice; false; mistaken; as, an erroneous opinion.

EFFOMEOUSMEDIA, adv. By mistake; not rightly.

EFFOMEOUSMEDIA, Pr. errour.] A wandering or deviation from the truth, or any fixed standard; a mistake in judgment; misapprehension; fallecy; a blunder.

\*\*Terro.\*\* "East." A wandering or deviation from the truth, or any fixed standard; a mistake in judgment; misapprehension; fallecy; a blunder.

Erroteme, n. [Gr. eroten, question.] (Rhet.) A note of interrogation.

Errote'sia, n. [Gr, from erota, to sak.] (Rhet.) A figure by which the speaker adopts the form of interrogation, not to express a doubt, but to make a bold assertion of what he saked; as. "It that planted the ear, shall be not hear!" (Px. xciv. 9.)

Errot'le, Errot'le, Errot'le, iove.] Pertaining to, or treating of, love; amatory.

Errot'le, n. An amatory poem; a warmly worded literary composition.—This appellation is particularly applied to a certain class of Greek and Roman authors, both in prose and poetry, of whose writings love formed as are Achilles Tatins, Heliodorus, Anacron, Sappho, Orid, Tibullus Propertius, &c.

Erroteme, n. [From Gr. eroz, love, and samin, and the principal theme. Of these the most distinguished are Achilles Tatins, Heliodorus, Anacron, Sappho, Orid, Tibullus Propertius, &c.

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Erroteme, n. [From Gr. eroz, love, and samin, and the p

Lord High Chancellor of England, and called to the perrage. Lord E was one of the greatest of English advocates, and during his parliamentary career presented the bill for the abolition of the Slave-Trade, pleaded the cause of the Irish Catholica, and was the tried champion of constitutional reform. D. 1823.

Erst, adv. [A. S. ærest, superlative of æra, ærr, early, ancient.] Earliest; first; at first; at the beginning.

"Bret so lavish and profuse."— Kilton.

-Once; formerly; long ago; in ancient times. as destined erst."— Milton.

-Till then or now; hitherto.

"Opener mine eyes, dim oret."— Mitton.

Erstein, (airstine,) a town of France, dep. Bas-Rhin,
1. miles from Strasburg. Manuf. Cotton, tobacco, &c. Pop. 4,709.

Ertrang-oe, (air-tra'ge(r.) an island of Norway, 40 m. from Christiansand; Lat. 63° 13' N., Lon. 8° 20' E. It is 12 miles long, by a breadth of the same extent. Pop. unascertained.

unascertained.

Erubescence, Erubescency, (er-u-besens,) n.

[L. Lat. erubescentia, from Lat. erubescens, erubescoe, e.e., and ruber, red. See Rubbin.] A becoming red; a
blushing: redness of the skin or surface of anything.

Erubescent, a. [Lat. erubescens.] Red or reddish;

blushing.

Eru'bescite, n. (Min.) A valuable ore of copper, of a copper red or brown color. It contains about 60 per cent. of copper, with sulphur and iron.

Eru'ca, n. A genus of plants, order Brassicacea.

(Lost.) A worm; a caterpillar;—the larva state of insects.—Also the name of a genus of univalve mollimbra silled to Chemilia (n. n.)

insects.—Also the name of a genus of univalve mol-leaks, allied to Clausilia (q.v.).

Eruct', Eruct'sate, v.a. [Lat. eructo—e, ex, and racto, to beich; Gr. ereugomai, to spew out.] To beich or vomit up;—specifically, to fart; to eject from the stomach, as wind.

Eructa'tioms, m. [Fr., from L. Lat. eructatio.] Act of ejecting or beiching wind from the stomach; a beich; any sudden burst of wind or matter from the earth.

"Therms are hot springs, or ferry eructations."—Woodward.

Erudite, (er "d-dit.) a. [Lat. eruditus —e, ex, and rudits, rough.] Well polished; highly learned; taught; instructed; conversant with books or languages; as, an erudite acholar.

Er'uditely, adv. With erudition; learnedly; scholarly. Er'uditemena, m. State or quality of being erudite or

Erudition, (rr-ū-dish'on.) n. [Fr.; from Lat. eruditio.] Learning; knowledge gained by study, or from books and instruction; learning in literature; scholarship. Erugate, a. [Lat. erugatus.] Smooth; having no

wrinkles. Eru gineux; Lat. æruginosus, from ærugo, rust of copper, from æs, æris, copper.] Resembling the rust of copper or brass; of the nature or color of verdigits; rusty; as, "ferreous and eruginosus earths."

Bro

Browne.

Erun'da, a. The name given in Oriental countries to the seed of the castor-oil plant.

Eruntiem, (e-rup'shon,) a. [Fr.; from Lat. eruptio. See Rurrurk.] A breaking or bursting out or forth; a sudden or violent emission; explosion; outburst; sudden or violent emission; explosion; outburst; sudden cashing or sallying forth; as, the eruption of Mount Venyvins. — A sudden hostile excursion.

(Med.) A breaking out of pimples or pustules on the skin; pimples; pustules; blotches; rash.

Erup'tive, a. [Sp. eruptive.] Bursting out or forth.—

Attended with eruptions or efflorescence, or producing it.

Attended with eruptions or emorescence, or producing it.

(Food.) Produced by eruption; as, eruptive scories.

Er ving, in Mussachusetts, a post-township of Franklin co., on Connecticut tiver, about 70 miles W.N.W. of Boston. Pop. (1897) about 1,000.

Ervuma, n. [Lat. eruo, I pull up by the roots.] (Bot.) A genus of plants, order Pubacoze. They are annual berbs, with leaves abruptly plunate, of many leaflets and a terminal tendril. The species are common fodderplants in many parts of the world. The seeds of E. Lens are called Lentils, and have been used as human food from the earliest ages. Several varieties of the lentil are cultivated in Europe; that which is most esteemed in France is termed leatille a la reine; it is very small and of a reddish color. Lentils are very nourishing, but somewhat hard to digest. The seeds of E. cruila, the bitter retch, are said to be poisonous. The only American species is E. hirzulum, the Halry or Creeping vetch, a weed found in cultivated fields from New York to S. Carolina. Carolina.

Erwin, in Illinois, a village of Schuyler co., abt. 45 m. E.N.E. of Quincy. Erwin, in Now York, a township of Steuben co., abt. 20

m. S.E. of Bath. Erwin Centre, in New York, a post-village of Steu-

ben co.

Erwin de Stein'bach, (air'edn,) a celebrated architect, a at Steinbach, Baden. He built Strasburg cathedral, with the exception of the tower, which was not finished until the 15th century. D. 1318.

Erwin'ma, in Fransylvania, a post-village of Bucks co.

Er'winsville, in N. Carolina, a post-village of Clevelande.

land co.

Eryman'thus, a river and mountain of Arcadia, in Greece. The mountain formed the W. point of the N. barrier of Arcadia, and was covered with forests. It was ou this mountain that Hercules chased and killed the famous wild boar.

Erym'ge, Erym'gium, n. [Gr. erygein, to belch; a supposed remedy for flatulence.] (Bot.) A genus of planta, order Apiacez. They are herbaceous or suffru-

ticose plants. Flowers blue or white bracteate; lower bracts involucrate, the others small and paleaceous. E. maritimum. the Sea-Eryngo, or Sea-Holly, is common on sandy sea-shores of W. Europe. E. aquaticum, the Ratiesnake-weed, or Button Snake-root, a remarkable plant, appearing like one of the Endogense. and found on low prairie grounds in several of the U. States. Event mann. n. (Gr. erus. to cure: from its salutary.)

Erys'imum, n. [Gr. cryo, to cure; from its salutary medicinal properties.] (Bot.) A genus of plants, order Brassicacez. They are annual or biennial herbs, with Brassicacce. They are annual or biennial herbs, with cally closed; siliques columnar, 4-sided; stigma capitate; seeds in a single series; cotyledons oblong incum. bent. E. cheiranthodes (Fig. 963) is found in wet ground



Fig. 963. - ERYSIMUM CHEIRANTHODES.

a, root; b, a branch, in which flowering has recently begun; c, the summit of a branch in a more advanced state, showing the fruit; d, the calyx; c, the parts of fructification, divested of floral envelopes; f, a flower.

throughout the U. States. E. Arkansanum, the Yellow Philox, or False Wall-flower, is a fine plant, with large, showy flowers, resembling the Wall-flower, and is found

in Arkansas and Illinois.

in Arkansas and Illinois.

Exysip/elas, n. [Gr. eruo, I draw, and pelas, near or adjoining.] (Med.) The name given to a peculiar kind of inflammation of the skin, so called from its tendency to spread to adjoining parts. It is known also as St. Anthony's fire or ignis sacer, and in common language as the Rose. It most commonly attacks the head and Anthony's fire or ignis sacer, and in common language as the Rose. It most commonly attacks the head and face; but it also sometimes occurs on other parts of the body. The local inflammation is preceded and acompanied with fever, and there are usually certain premonitory symptoms that precede the outbreak of the disease; the patient feels ill, — shivery, feeble, languid, and often drowsy. After these symptoms have continued for some time, a red spot appears on some part of the body, accompanied with a burning heat and tingling. When attacking the face, it usually makes its appearance on the bridge of the nose, and rapidly extends itself to the eyelids, cheeks, and forehead. The redness is not intense, but rather of a pale rose-color, and goes away temporarily on pressure, but returns immediately on its removal, and no pit remains after the pressure. By the second night, or morning of the third day, after the commencement of the fever, the face begins to swell, the eyes are completely closed, and the form of the features scarcely recognizable. On the fourth or fifth day, vesications appear on the inflamed surface, and break or subside on the fifth or sixth, when the redness changes to a yellowish hue, and the swelling and fever begin to diminish; and on the eighth day they both disappear. The progress of the disease, however, is more rapid and its course of shorter duration in the young and sanguine than in those more advanced in life; the tumefaction in the former being sometimes fully formed on the second than in those more advanced in life; the tumefaction in the former being sometimes fully formed on the second day, and the whole terminating on the sixth or seventh, while in the latter it may be protracted to the tenth or twelfth. Suppuration rarely occurs, except occasionally in the eyelids or scalp. Sometimes the inflammation and swelling extend to the neck and throat, and may produce suffocation. In very lad cases, delirium and coma come on, and death ensues from effusion on the second throat the contraction. coma come on, and death ensues from effusion on the brain. No remission of the fever takes place on the appearance of the inflammation; but, on the contrary, it generally increases with the progress of the inflammation, and only ceases when it goes away. When the complaint is mild, the inflammation and fever generally cease gradually without any evident crisis. Among frequent causes of this disease, are exposure to a cold and moist atmosphere, sudden changes of temperature, intemperance and unwholesome articles of food. It is sometimes also induced by wounds or notes or even by a slight times also induced by wounds or sores, or even by a slight puncture or scratch of the skin in persons predisposed to it. It is likewise contagious, and has to be strictly guarded against by means of ventilation and cleanliness in hospitals. Though the proper seat of the inflammation is the skin, it frequently extends to the parts underneath. Authors usually distinguish four kinds of this disease,—the phlegmonous, edematous, gangrenous, and erratic. The first of these is characterized by the greatest degree of inflammation. In the eedematous, the inflammatory symptoms are less intense, but the tumefaction is greater. It most commonly affects persons of debilitated constitutions, dropsical persons, and those who have been long

subject to other chronic maladies. It is attended with considerable danger when it affects the face, and otten terminates fatally on the seventh or eighth day. The gangrenous form most commonly occurs in the face, neck, or shoulders, and is accompanied with symptoms of low fever and delirium, which is succeeded by coma. The color of the affected parts is of a dark red, and scattered vesicles appear upon the surface, which frequently terminate in gangrenous ulcerations. It is always a tedious and often a fatal form of the disease. In erratio E. the morbid patches appear one after the other in different parts of the body; sometimes thus travelling progressively from the head to the extremities. It is rarely attended with danger, and usually terminates in a week or ten days. In the treatment of E, very much depends upon the nature of the disease and the condition of the patient. If the patient be young and sanguine, and the inflammation high, bleeding may be resorted to. When, portient. If the patient be young and sanguine, and the inflammation high, bleeding may be resorted to. When, on the other hand, the system is enfeebled, tonics, a nourishing diet, and even stimulants may be necessary in order to strengthen the patient. In general, moderate purgatives, diaphoretics, and strict confinement to bed, are to be adopted. Recent investigation shows that E. is caused by the presence of a living organism, a micrococus in the lymphatic vessels of the skin, it is a paracrococus in the lymphatic vessels of the skin, it is a paracrococus in the lymphatic vessels of the skin, it is a paracrococus in the lymphatic vessels of the skin, it is a paracrococus in the lymphatic vessels of the skin, it is a paracrocommended, such as a weak solution of corrosive sub-limate, blevandle of marcury, carbolic or salleying sub-

sinc disease, total and hypotermatic germicus i reatment is recommended, such as a weak solution of corrosive sublimate, bicyanide of mercury, carbolic or salicylic acid. Erysipel'atotal, Erysi

Erythree'a, n. [Gr. erythros, red; from the color of its Erythree's, n. [Gr. erythros, red; from the color of us flowers.] (Bot.) A genus of plants, order Gentianacea. They are annual herbs, with stem subangular. Leaves connate at base. Flowers cymose, roseate, white, or yellow. The most important species is E. centaurium, the common Centaury, a native of Europe, having bitter tonic properties, similar to those of gentian. E. Pickeringsi are found along the marshy shores of the Middle and Eastern States. and Eastern States.

and Eastern States. (er-e-thre'um mair'a.) (Anc. Geog.) A part of the ocean on the coast of Arabia. As it communicated with the Persian Gulf and the Red Sea, it has often been mistaken by ancient writers, who by the word *crythrean* understood indiscriminately either the Red Sea or the Persian Gulf. It received this name either from Erythras, or from the redness (ερυθρος,

either from Erythras, or from the redness (\$\sigmu\text{puppers}\$, ruber) of its sand or waters.

Erythr\(^{\text{Try}}\) as, n. [Gr. erythras, red.] (\$Bot.) A genus of plants, order Fubacca. They are small trees, shrubs, and under-shrubs, natives of America and the E. and W. Indies. Nearly all the species are remarkable for the brilliant scarlet color of their flowers, owing to which they are much cultivated as stove-plants, and commonly called the coral-tree.

Erythrise, Erythrine, n. (\$Min.) Arseniate of cobalt, or red cobalt. Contains about 36 per cent. of cobalt, and 38 per cent. of arsenic.

Erythriogens, n. [Gr. erythras, red, and gennao, to produce.] (\$Chem.) A neutral, crystalline, fatty matter found in diseased bile.

Erythro'nium, n. [Gr. erythros, red; in allusion to the color of the flower and leaves of some species.] (\$Bot.) A genus of plants, order Liliacca. They are perennial plants, with leaves 2, subradial; scape 1-flowered; flowers nedding, liliaccous. E Americanum, the Yellow

plants, with leaves 2, subradial; scape 1-flowered; flowers nodding, Illiaceous. E. Americanum, the Yellow Erythronium, is a beautiful little plant, and among the earliest of our vernal flowers. It is found in rich open fields or thin woods throughout the U. States and Canada. Erythroph Toeumn, n. [Gr. rrythros, red, and phioton, bark.] (Bot.) A genus of plants, order Fabacez. E. guincense is the Sassy-tree of W. Africa, the bark of which, under the name of Ordeal-bark or Doom-bark, is used by certain tribes as an ordeal to which persons suspected of witchcraft or secret poisoning are subjected, from the superstition that their innocence or guilt will be indicated by the effects produced by the bark on the system.

In throphyl'line, n. [Gr. erythros, red, and phyl-lon, leaf.] (Chem.) A substance to which the autumnal red tint of some leaves is due.

red tint of some leaves is due.

Erythroxyla'cess, n. [From erythroxylon, from Gr. erythrox, red, and xulon, wood.] (Bot.) The Erythroxylon family, an order of plants, alliance Sapindales. Diag. Complete, partially symmetrical flowers, an imbricated calyx, petals with an appendage, sessile pendulous ovules, capitate stigmas, and a straight embryo. They are shrube or trees. The order contains but one genus, Erythroxylon, which includes 75 species, natives of the warmer regions of the world, and especially abundant in Brazil. The order is so closely allied to Malpiphiaces (q. v.), that it scarcely presents characters sufficient to warrant its separation from that order. Some plants are tonic, others purgative, and others stimulant and sedative. The wood of E. hypericifolium and the park of E. suberorum are red, and are used for the prepuration of E. subcrosum are red, and are used for the preparation

of the wood throughout the genus; hence its mame. The most important species is \$E\$ exca, the leaves of which are much used by the Peruvians and other pourses of South America to form a masticatory, which is preparted by adding to them a very small quantity or alkaline paste made from the ashes of different plants, or even a little common quicklime. The Indians of Peru have always ascribed to the coca marvellous virtues, believing that it will leases the desire and necessity for ordinary food. Spruce says that an Indian with a cheep of this masticatory in his cheek, will go two or three days without food, and feel no desare to go to sleep. Dr. Weddell, however, speaks far less highly of the virtues of the coca; he states that it does not assistly the appertite, but merely enables those who chew it to support abstinence for a length of time with a feeling of hunger or weakness. The use of coca is said to prevent the difficulty of respiration which is generally experienced in ascending long and steep menutains. It excessive use is stated to be most injurious, producing effects analogous to those occasioned by the immoderate use of optimal gones to those occasioned by the immoderate use of optimal and fermented liquors. Johnston has computed the annual consumption of coca at 30,000,000 lies; and has stated that its chewing is indiged in by abt. 10,000,000 of the human race. The nature of the constituents which give rise to the peculiar, stimulating, hunger-aligning, and narcotic effects of coca, has not yet been satisfactorily determined.

Exylbrea Y yleum, s. See Exylbroxyleas.

Exylbrea Y yleum, s. See Exylbroxyleas.

Exylbrea Y yleum, s. See Exylbroxyleas.

Expersoums, Exylbro, Carlone, I Ar. Arene-t-Roam.

As invented for me a montain of same name, which for upwards of 1,000 years has yielded vast quantities of irro.

THE PORTING, RELIGIN, (err'room.) [Ar. Arees An important city of Turkish Armenia, cap. of an extensive pachalic of same name, and residence of a Seraskier Pacha; in a plain at the foot of the Tcheidir Mountains, near the sources of the N. arm of the Euphrates, 6,000 or 7,000 feet above the sea, 134 m. S.E. of Trebizond, and 156 m. W.S.W. of Mount Ararat; Lat. 39° 56° 30° N. |
Lon. 41° 40° 15° E. Perviously to the plague of 1829, its population amounted to about 100,000; it was deserted by many Armenian families when the Turks took possession of it in 1836. E. is of considerable antiquity, having leen a frontier post of the Greek empire of Constantinople. It was an important military center during the Russo-Turkish wars of 1854—55 and 1877—78, being beseiged and taken by the Russians in the latter year, but restored to Turkey on peace being declared. Pop. (1897) estimated at 40,000. An important city of Turkish Armenia, cap. of an exte

Pop. (1897) estimated at 40,000.

Erg gebirge. [Ger, ore-mountains.] A chain of mountains, rich in metals, stretching in a S.W. direction, on the confines of Saxony and Bohemia, from the valley of the Elise to the Vichteigleitige, in Lon. 12° 20° E. The E is chiefly of the gneise-granite formation, in which most of the metal strate are to be found. The Keilberg, the highest point of the range, is 3,802 feet above the sea.

Zanu, (c'saw.) [Heb., hairy or rough.] The eldest son of lease and Relecca. He sold his birthright to his brother Jacob, who also, by decelt, afterwards gained, instead of Esau, his father's blessing. Enraged at this, Esau would have slain Jacob, had the latter not fied into Mesopotamia. On his return, Esau met him, and behaved very generously toward him. He was the father of

hereopotamia. On his return, zeau mee him, and oe-haved very generously toward him. He was the father of the Edomites. Lived in the 18th century, n.c. Encalande, n. [Fr.; It. scalida, from Lat. scala, a lad-der. See Scala.] (Md.) The assault of a fortrees by scaling the walls; a furious stack made by troops on a fortified place, in which ladders are used to pass a ditch,

To scale; to mount and pass or enter by mean

Bacallonia/cese, n. [In honor of Escallon, a Spanish traveller.] (Bot.) The Escallonia family, an order of plants, alliance Grossales. Diag. Fruit capsular, placenta plants, alliance Grossales. Dr.o. Fruit capsular, placenta axile, style and stamens definite, calyx imbricated.—
They are evergreen shrubs, with alternate exstipulate leaves and axiliary showy flowers. They are chiefly natives of the mountains of S. America, extending as far S. as the Straits of Magellan. Their properties are unknown. Their leaves often have a powerful odor. The order includes 7 genera and 60 species.

Excalleg. (eskellup.) (eskellup.) n. [Dut. schalp, a shell. See Scaller.] An inequality of margin in anything; a jagged indeutstion.

"Scalege, curiously indended round the edges."—Ray.

Escalope, curiously indented round the edges." — Ray.

(Zoll.) A family of bivaive includes, the shells of which are deeply indented. In the centre of the top of the shell is a trigonal sinus, with a hinge consisting of elastic

with a hinge cousing.
cartilage.

(Her.) The E. shell is a frequent
bearing in the escutcheon, it having been the pligrims' ensign in
their exhibitions to the Holy
Land; -often written scallop-shell.

Escaloped, Escalloped, (rskol'opt.) a. Cut or notched in the
form of an escalop; scalloped.

(Her.) Applied to an escutcheon when covered with
waving lines, like that on the edge of an escalop-shell.

form of an escalop; scalloped.
(Her.) Applied to an escutcheon when covered with waving lines, like that on the edge of an escalop-shell. Escami'bia, in Alubama, a S. co., bordering on Florida. Surface, nearly level; extensive pine forests. Pop. (1897) about 10,000. Cap. Brewton. Escami'bia, in Florida, a N.W. co., bordering on Alabama; area, about 680 sq. m. Ricers, Perdido and Escambia rivers. The full of Mexico washes its S. border. Surface, generally level; soil, not fertile. Pop. (1890) 20,188. Cap. Pensacola.

captured.

a. Hight, to shun danger or injury; act of fleeing from danger; state of being freed from danger without receiving injury; as, a lucky escape from marrying a tartar.

(Law.) A violent or privy evasion out of some lawful restraint; as where a man is arrested or imprisoned, and gets away before he is delivered by due course of law. Officers who, after arrest, negligently permit a felon to escape, are punishable by fine; but it is regarded as a much more serions offence if the escape is effected by the consent and connivance of the officer, and is generally looked upon in law as punishable in the same degree as the offence of which the prisoner is guilty, and for which he is in custody. So, if the offence of the prisoner was a felony, a voluntary escape is a felony on the part of the officer; if negligent, it is a misdemeanor only in any case. In criminal cases, the prisoner is indicted for a misdemeanor, whether the escape be through negligence or voluntary.

dicted for a misdemeanor, whether the escape be through negligence or voluntary.

\*\*Secape\*\*meent\*\*, w. Becape: flight. (2.)

\*\*(Horol.)\*\* That part of a clock or watch by which the circular motion of the wheels is converted into a vibrating one, as that of the pendulum in a clock, or the balance of a watch. Or, it is a mechanical contrivance for transmitting the maintaining power of a clock or watch to the regulator, whether balance or pendulum.

\*\*Decarp\*\*\*meele\*\*, w. (Her.)\*\* The heraldic name for the precious stone called carbanele.

\*\*Decarp\*\*\*, v. a. [Fr. cscarper\*\*, to cut steep down: said of

precions stone cannot carometer.

accurpe, r. a. [Fr. escarper, to cut steep down: said of rocks and mountains, to render them inaccessible. See Scarp.] (Mil.) To form into a scarp; to make to alope

suddenly.

A sudden slope; anything high or precipitous.

(Portif) The side of the ditch which forms the lower part of the rampart of a fortress, and which is below the natural level of the ground, or the summit of the giacis on the other side, is called the secarp or scarp. The slope of the E depends on the nature of the earth in which the ditch is cut, and the manner in which it is finished, varying from an angle of 45° with the level of the bottom of the ditch, if it consist of the soil only and loose rubble, to one of 80°, if the E be rivested with masonry. When the E is not rivetted, it should be defended by lines of palisades projecting from its surface at right angles. At the present time many engineers make the rivetments of the E and counterscarp perpendicular.

pendicular.

acarp ment, n. [Fr. escarpement.] A steep declivity; a precipitous side of any hill or rock.

(Mi.) Ground cut away nearly vertically about a position in order to prevent an enemy from arriving at the latter.

the latter.

meatap'pa, or Dog River, in Alabama and Mississippi, rises in Washington co., of the former State, and
flowing S.S.W. into Mississippi, empties into Mississippi Sound from Jackson co.

Escant, (cr/ko.) the French name for the river SCHELDT.

Execut, (es'ko), the French name for the river Schelder, q. r.
q. r.
Exchalot, (sth-a-lot',) n. [Fr. chalotte, from Lat. Ascalon, of Ascalon, the Askelon of Scripture. See Ascalon.] (Hort.) A species of onion or garlic, commonly called shallot.

Exchar, (ct'.dr.) n. [Gr. cschara, a brazier.] (Surg.)
A sear or scab on a wound caused by burning; the crust or scab occasioned by burns or caustic applications.

Ex'chara, n. [Fr. cscare.](Zodl.) A genus of Alcyonida. distinguished by their foliate skeleton.

Excharact'ic, a. [Fr. cscharatique; L. Lat. escaroticus.]

Caustic; having the power of scarring or destroying the fiesh.

fical).

(Med.) One of that class of caustic medicines used to eat off, as it is popularly called, fungoid growths, or excessive granulations, or what is known as proud fiest; or compounds which have the power of eroding or dissolving the animal texture, and forming new combinations. The most important of the E. are quicklime, lunar caustic, bluestone, burnt alum, arsenic, caustic potash, and the mineral acids. An E. may be either as a stimulating and violent as the most severe of the potential. potest, and the mineral actus. An Z. may be ether as stimulating and violent as the most severe of the poten-tial cauteries, or it may be merely slightly or gently stimulating, as powdered sugar, which is sometimes used

for the purpose.

Eschatol'ogy, n. [Gr. eschalos, last, and logos, doctrine.] The doctrine of the end of all things, as death,

trine.] Ine doctrine of the end of all things, as death, judgment, &c.

\*\*Retheat', n. [O. Fr. eschoëtte; L. Lat. escheta, from escaderre—L. ez, and cadere, to fall; Fr. échoir. See CADENCE.] (Law.) That which falls or lapses to the original proprietor, or to the state, as lands or other property, through failure of heirs, or by forfeiture.—

The place or circuit within which the king, lord, or state is entitled to escheat.— A reversion; a return. -c. m. To revert, as land, to the lord of a manor, by means of the extinction of the bloud of the tenant.

"Lands were thereby saved to their heirs, which should be terwise sechested to her majesty."—Spenser.

Enchent'able, a. That may be exchanted.
Enchent'able, a. That may be exchanted.
Enchent'age, a. Right of succession to an escheat.
Enchent'age, a. Right of succession to an escheat.
Enchent'er, a. (Law) In England, an officer of the crown who takes cognizance of all escheats within his jurisdiction, and certifies them into the exchequer.
Ench'embach, Wolffant vox, a German minnesinger, was a. in the 2d half of the 12th cent., and derived his name from the village of Eschenbach in Bavaria. He passed his life in knightly fashion, chiefly at the court of Hermann, landgraf of Thuringia. His rich fancy, deep sentiment, and vivid power of representation, as well as his elegant mastery of language and versification, give something of an epic character to his works, the principal of which are Parcical, composed before 1212, Wilkelm ron Oruspe, and Thurd. The best translation of Parcreal and Titurel was executed by Simrock, 2 vols., Stattgart, 1842.

lation of Firered and Titures was executed by Simroca, 2 vols., Stuttgart, 1842.

Escherite, n. (Mn.) A variety of Epidote, q. r.

Enchew', v. a. [O. Fr. escherer; Ger. scheme; A.S. scinica, to shun. See Sutn.] To shun; to avoid; to fee form: a not a sackar axil from: as, to eschese evil.

from; as, to esclere evil.

Enchew'er, s. One who eschews.

Enchew'er, s. Act of eschewing. (R.)

Enchewingent, w. Act of eschewing. (R.)

Enchevingent, w. Act of eschewing. (R.)

Enchevingent in the second of the Arctic Ocean, in Alaska, forms the innermost part of Kotzebue Sound, the first great in let to the N.E. of Behring's Strait. It is about Lon. 1610 W., Iwing barely on the outside of the polar circle, and is worthy of notice chiefly on account of its fossil remains.

Enchechelisia, (esh-shölte'i-a.) [From the botanist Echekoldic] [Bot.) A genue of plants, order Papareracca, of which E. Culifornica and other species, natives of California, have been much cultivated of late in our flower-gardene, making a showy appearance with their

of California, have been much cultivated of late in our flower-gardene, making a showy appearance with their large deep yellow flowers. The genus is remarkable for the calyx, which separates from the dilated apex of the flower-stalk, being thrown off by the expanding flower, and much resembling in its form the extinguisher of a candle.

Eschweller, (deb-vV-air.) an important manuf. town of Rhenish Prussia, 8 m. E.N.E. of Aix-la-Chapelle. Pop. 15,560.

Eschweller, (Her.) Anything shattered by the stroke of a battle-axe.

of a battle-axe

of a battle-axe.

Encobar y Memdona. Arronto, a celebrated Spanish Jesuit, B. at Valladolid, 1889. He was a popular preacher, and a voluminous writer. His most noted works are his Moral Theology, and his Care of Conserver. His doctrines were vigorously opposed by Pascal in the celebrated Letters Provinciales. D. 1669.

Entechel, or Ecaot, in Michigan, a village of St. Joseph co., on the St. Joseph River, about 7 m. above Constantine.

Une.

Broomaw'ba, or Esconaba, in *Michigan*, a small river flowing into the Little Bay de Noquet from Delta co. Rises in Marquette co.

Broomaw'ba, in *Michigan*, a post-village, cap. of Delta

Escona w'ba, in Michigan, a post-village, cap, of Delta co., at the mouth of the Econawba River.

Escondi'do, a harbor on the W. side of the Gulf of California, near Loreto; Lat. 25° 55′ N. Lon. 11° 4″. W. Escondido, a harbor on the S. coast of Cuba, about 60 m. R. of Santiago.

Escondido, a harbor at the E. extremity of Lake Terminos, in Yucatan; Lat. 18° 50′ N., Lon. 91° 5′ W.

Escondido, a harbor on the E. side of the Bay of Panama, prov. of Cauca, in the Republic of Colombia, about 140 m. S. E. of Panama.

Escondido, a harbor on the N. coast of the peninsula

180 m. S. E. of Panama.

Bacondido, a harbor on the N. coast of the peninsula of Paraguana, in the department of Zulia, Venezuela.

Ecopett. Escopette. n. [Sp. ccopped.] A fire-arm, resmbling a carbine, used in some Spanish-speaking countries.

countries.

Ex-corfs, n. [Fr. escorte; It. scorta, from Lat. cohors, a company of soldiers. See Coron.] A body of armed men which attends an officer, or baggage, provisions, or munitions conveyed by land, to protect them; as, an escort of cavalry.— Protection or safeguard on a journey, consolition or synession. escort of cavalry. — Prote expedition, or excursion.

expedition, or excursion.

—v.a. To attend and guard on a journey or excursion: to accompany as a safeguard; to attend ceremoniously; as, to excur a lady to her home.

Escousde, (&=koo-dde',) n. [Fr.] (Mil.) See Squan.

Escousde, (&=kri'(so'r), n. [O. Fr. escriptoire; Fr. écritoire; Sp. escritorio, from Lat. scribere, to write. See Scarss.] A box or deak with all implements and conveniences for writing; a scrutoire.

Escapsia'rial a. Portaining or having reference to an

Escrito'rial, a. Pertaining, or having reference, to an

Escrol', n. See Schop.
Escrol', n. (Her.) as coll; the representation of a silp of paper, parch ment, &c., on which the motto of an escutcheon is inscribed.

escritcheon is inscribed.

Ba\*FFOW. n. [N. Fr. escrover, a scroll.] (Law.) A deed delivered to a third party, to be the deed of the party making it upon a future condition when a certain thing is performed, until which it has no effect as a deed.

Ba\*Cunage, n. (O. Fr. escu, a shield.] (Prudal Law.) A pecuniary satisfaction, paid in lieu of military service by tenants in chivalry.

ndero, (¿s-koo-dd'ro,) n. [Sp.] An esquire; a lady's attendant.

Escu'do, an island in the Caribbean Sea, about 9 m. of the N. coast of Veragua; Lat. 9° 6'24" N., Lon. 81° 84' 30" W. Digitized by GOOGLE

Encu'de de Vera'gum, a river separating Central and S. America, and flowing into the Caribbean Sea.

Beuins'la, a town of Guatemala, on the Pacific coat, about 35 m. S.W. of Guatemala; pop. about 3500.

Encula'piam, a. [From Lat. Asculapius.] Medical; pertaining to the healing art.

Encula'pium, n. (Myth.) See Esculapius.

En'emient, a. [Lat. esculentus, from esca. food—edo, to est.] Estable; edible; that is or may be used by man for food; as, an esculent root.

—A. Any regetable substance that may be used as good and efficient food; any article wholesome as food; though the term is generally confined to roots, fruits, and grains.

mongn the term is generally connice to roots, runts, and grains.

Becu'letime, n. (Chem.) A crystalline substance obtained from Esculine. Porm. C<sub>18</sub>H<sub>6</sub>O<sub>8</sub>.

Escu'lete, a. [Lat. esculus.] (Chem.) Pertaining to, or extracted from, the horse-chestnut.

Esculline, n. (Chem.) A neutral crystalline substance found in horse-chestnut bark. It possesses the property of successors in a high degree: one part in a million found in horse-chestnut bark. It possesses the property of fuorescence in a high degree; one part in a million parts of water appearing blue by reflected light. Form.

of fuorescence in a high degree; one part in a million parts of water appearing blue by reflected light. Form. C.B.2.0.2.

Been rial., (ais-koor-o-ai.) [Sp. Escorial.] A famous monsetery and palace of Spain, 24 m. from Madrid, built by Philip II., after the plan of St. Peter's, to commenorate his victory over the French at St. Quentin; the monastery was erected in the form of a gridiron in honor of the martyr St. Lawrence, a monastery of Jeronomitee, a free school, cloistera, a library, and shope of different artists, — the whole surrounded by fountains, courts, gardens, and orchards. This immense building, which receives its name from the village in which it stands, cost six millions of crowns, has 14,000 doors, and a proportionate number of windows, and occupied twenty-two years in building. It stands in a dry, barren country, surrounded by rugged mountains, and is composed of gray-stones found in the neighborhood.

Becutehneom, (es-kich'ma,) m. [Fr. couson, from O. Fr. couson, from Lat. scatum, a shield; Gr. skutor, a skin, a hide.] (Her.) A shield; the shield on which armorial bearings are depicted. The shield may be of any form, but the shape generally adopted is that of a square, a brace with the central point turned outwards, or two lines projecting outwards, and inclined to each other at a very large obtuse angle, being used at the bottom instead of a horizontal line to connect the sides. The armorial bearings of a lady entitled to bear arms, being

morial bearings of a lady entitled to bear arms, being



Fig. 965. — PEMALE'S ESCUTCHEON.

unmarried, or a widow, are emblazoned on a shield in the form of a lozenge (Fig. 965). — E. of pretence. When a man marries an heiross or co-heiross, he places the ar-morial bearings of his wife's family on a small shield exactly in the centre of his own coat. This shield is called the E of pretence, and signifies that the children by such a marriage inherit the coat-armor of their mother's family, as well as real property, and are the representatives of that family, as well as that of their father. On the death of the father, the children bear the armorial bearings of their mother's family quarterly with the paternal coat.

(Nant.) That part of a vessel's stern on which he

(Curp.) A thin plate of metal which alides over and covers the key-hole of a door.

Escutcheomed, (eschuch'und,) a. Having a coat of arms or easign.

Endras, (Books of,) (es'dras.) (Script.) Though usually acribed to Erra, the authorship and date of the first and second books of Esdras are involved in great obscurity. Lawrence supposes the second book to have been written s. c. 28-25. They were admitted as canonical by the Council of Carthage in 397 or 419, but have since been included in the Apocrypha.

Exemplas'sie, a. [Gr. es, to, en, one, and plastikes, formed.] Moulded or formed into one.

Exhiberal, the fourth son of Saul, generally called

Ishbosheth.

Isbbosheth.

Esh'esl, the small and well-watered valley from which
the Hebrew spies obtained the specimen of grapes, which
they suspended from a staff borne by two men for safe
carriage to Moses. This valley is believed to be the one
which closely adjoins Hebron on the north, and still
furnishes the finest grapes in the country, as well as
pomegranates, figs, olives, etc.

Esk, the name of several rivers in Scotland. 1. In Dunfriesables fulling into the Solway Frith. — 2. (NORTH.)

frieshire, falling into the Solway Frith.—2. (NORTH.) In the county of Edinburgh, joining the sea at Musselburgh.—2. (North.) In Forfarshire, falling into the German Ocean, 3 miles from Montrose.—4. (SOUTH.) In

the same county, falling into the sea at Montrose. — 5. (SOUTH.) In the county of Peebles, falling into the North Eak below Dalkeith.

Esk below Dalkeith.

Also a river of Cumberland, England, rising in the Sea Fell, and failing into the Irish Sea near Ravenglass.

Eske, a river of England, rising near Kildare, Yorkshire, and failing into the North Sea at Whitby.

Eski 4-38-8 gras, a town of Eastern to-mnella, at the S. base of the Balkan Mountains, 70 m N.W. of Adrianople. Monsf. Carpets, leather, and hardware. Pop. 21,600.

Estia, a river of Spain, rises in the prov. of Valencia, Old Castile, and, after a S.W. course of 125 m., joins the Douro, 15 m. below the town of Zanora.

Esmark 12e, n. (Min.) Same as FAHLUNITE, q. v.

Estimens, in Illinois, a flourishing township of Livingston co.

Esmeral'da, in Brazil, a sierra or mountain-chain, prov. of Minas-Geraes, stretching about 170 m. E. and W. Esmeral'da, in Ecuador, a river which rises near Quito, and flows N.W. into the Pacific, abt. Lat. 0° 58' N., Lon. 79° 40' W.— A sea-port town, abt. 10 m. from the mouth of E. River, and 95 m. N.W. of Quito.

of E. River, and 95 m. N.W. of Quito.

Emmeral'da, in Venezuela, a mission settlement, on
the Orinoco River.

Emmeral'dia, in Nevada, a S.W. co., bordering on Callfornia, Utah, and Arizona. Ricers. Walker river. It
also contains Walker lake. Sarface, elevated plains;
soil, sterile. Min. Silver, gold, lead, iron, call, and salt.
Cap. Hawthorne. Pop. (1890), 2,148.

Emmerel'dia, in California, a post-office of Calaveras co.
Ex'mond, in Illinois, a post-office of Pekalb co.
Ex'mond, in Illinois, a post-office of Khulpebuy vo.

buny co.

Es'mont, in Virginia, a post-office of Albemarle co.
Es'ne, Esna, or Esneh, a town of Uppe Lgypt, and
the hast place of any megnitude on the side of Amia,
25 m. from Thebes. It is the entrépôt of the Sennan 25 m. from Thebes. It is the entrepot of the Sennaar catavans, and is famous for a vast ancient temple, now converted into a cotton factory. Mansf. Cotton, shawls, and pottery. Pop. (1897) estimated at about 7,000. Near this place Davoust defeated the Mamelukes, 1799. Exocides, n.p. (2001.) See Firs. Exoph'agus, n. (Anal.) See Gsophagus. Exopian, a. [Lat. Exopus.] Pertaining to Exop; after the manner of Exop; as, Exopian fable.

Exo'pus, in New York, a post-village and township of Ulster co., on the Hudson River, about 68 m. S. by W. of Albany.

Exo'pus C'reek, in New York, enters the Hudson River from Ulster co.

Soterie, a. [Fr. ésoterique, from Gr. esöterikos, inr intimate, from eső, eiső, into, from eis, into, to.]

vate; secret; mysterious; taught to a select few, as certain doctrines of the ancient philosophers; correlative to exoteric, or public. Esoterically, adv. In an esoteric manner. Esotericism, (es-6-ter'i-sizm,) n. Esoteric doctrine

or principles.

Esoter'ies, n. sing. Mysterious or hidden doctrine or

science.

Esotery, n. Mystery; secrecy.

Esox, n. [Lat.] (Z.ill.) See Piks.

Es'padon, n. [It.:padone.] A long, heavy sword used in the decapitation of criminals.

in the decapitation of criminals.

Espal'ier, n. [Fr.; It. spalliera, probably from Lat.

palus, a pole.] (Hort.) A substitute for a wall on which

to train fruit-trees, and sometimes ornamental shrubs.

The objects are to expose the foliage of the plants more

perfectly to the light, to prevent the branches from

being blown about by the wind, and to economize space

by confining them within definite limits. The espalier

is either constructed of wood or iron; and commonly of

the business the light island by applicht code also as a sectwo horizontal rails joined by upright rods, six or eight inches apart.

To form an espalier. r. a.

-n. a. To form an capaner.

Española. See Havri.

Esparceet, n. [Fr.] A plant, being a kind of sainfoin.

Esparceet, n. [A plant, being a kind of sainfoin.

Esparceet, n. [Fr.] A plant, being a kind of sainfoin.

Esparceet, n. [Fr.] A plant, being a kind of sainfoin. par-terio,) a Spanish soldier of fortune, is near Alma-gro, 1743. Captivated by the charms of a military life, he enlisted in 1808 as a common soldier. On the breaking out of the South American Revolution, he accompanied his regiment to Peru, where he rapidly distinguished himself, and ruse to the grade of a commanding officer, and where he represent till the final triumph of the raveluwhere he remained till the final triumph of the revolution compelled the Royalists to quit the country. Up the breaking out of the civil war in 1833, E. joined side of the youthful queen, where he soon became the head and directing chief, and was mainly instrumental in seating Christina on the throne of her fathers, for which he was ennobled with the title of Duke of Victory. 841, during the minority of the queen Isabella In 1841, during the minority of the queen Isabella, he was elected Regent of Spain; two years later, civil faction drove him a refugee to England. In 1854 he was again called to assume the reins of government, which he held till 1866. In 1870 he declined the crown of Spain when offered him: and in 1872 was appointed Captain-general of the kingdom. D. Jan, 1870.

Espair Co. n. (Sp. and Pg.) A species of grass, the Sipa or Macrochia tenacissma, found in Spain and Allerts.

Skips or Macrochi-a lenatissima, found in Spain and Al-giers. It is made into cordage, and is largely used in paper-making; the amt. exp. yearly from the Mediter-ranean for this purpose has become very valuable. Espauliere. (e-pi-le-ar',) n. (Mil.) A kind of metal shoulder-piece, used in the 15th century; whence the

modern term epaulet.

apecial, (es-pesh'al.) a. [Fr. spécial. See Special.

Principal; chief; special; particular; as, an especia

Sape clally, adv. In an uncommon degree: specially; principally; chiefly; particularly; peculiarly; expressly.

Especialness, s. State or object of being especial. Espejo, (ais-patho,) a town of Spain, 20 m. from Cordova; pop. 5,248.

Esperamee', in New York, a post-village and township of Schoharie county, about 28 miles W. by N. of Al-

of Sc buny.

Es perance Bay, on the 8. coast of Australia, Lat. 35° 55' S., Lon. 121° 47' E
Esparam'na, in California, a post-office of Kings

Esparam'sa, in Cuijornia, a possession county.

Esper'nom, J. L., De Nogaret de La Valettr, Duke d', a French nobleman, B. 1554, and originally known as Caumont, was one of the most important persons in the reigns of Henry 111., Henry 1V., and Louis XIII. His intrigues at court were opposed to those of the Duc de Guise, and afterwards of Richelieu, and he was the chief instrument in investing Maria de Medicis with the regency. D. 1642.

Espi'al, n. [See Espr.] Act of espying; observation; notice.

notice, Espi'er, n. One who watches, after the manner of a spy.

Espi'er, n. One who watches, after the manner of a spy. Espinel, n. Same as Spinki, q. v. Espinence, or Espinence. (Sierra Do.) a mountain-chain of lirazil, extending in a direction generally parallel with the coast, from the right bank of the San Francisco to the head-waters of the Uruguay. Its northern part forms the eastern limit of the basin of the former river. The Sierra, as a whole, is said to be rich in diamonds.

in diamonds

in diamonds.

Espionage, (et'pi-m-dj.) n. [Fr. espionage. See
ESPT.] Fractice of watching others without being suspected, and giving intelligence of discoveries made.

Espiotice, (et'pe-dt.) n. [Fr.] A kind of tye.

Espirito Samto, or Villa Villa D'Espirito Sarro,
the former cap. of the following prov., on the Bay of
Espirito Santo; pop. about 100.

Espirito Santo, (at-pe're-to san-to,) a maritime
prov. of Brazil, bounded N. by Bahia, S. by Rio-Janeiro,
W. by Minas-Gersea, and E. by the Atlantic; area, 23.000
aq. m. It has a rich but ill cultivated soil. Along the

w. by shims-creek, and E. by the Atlantic (17-2, 25.00) sq. m. It has a rich but ill cultivated soil. Along the coast are the islands called the Abrolhos. The interior, covered with mountains and dense forests, is mostly peopled by Indians. Cap. Vittoria.

Expiritu Santo, a town of Cuba, near the middle of the island; pop. 11,000.

Espiritu Santo, the largest island of the New Heb-

rides, in the Pacific Ocean, b-ing 65 miles long, by 20 hroad; Lat. 150 S. Lon. 1670 E. Empiritu Santo, a cape of Terra del Fuego; Lat. 520 38' S., Lon. 680 37' W.

Espiritu Santo, a group of the Bahama Islands, abt. 18 m. S of Andros.

Espiritu Santo, an island in the Gulf of California, about 30 m. N. of La Pas. Leugth about 13 m.; breadth about 5 m.

about 5 m.

Espiritu Santo, in Florida. See Tampa Bar.

Espiritu, a town of Yucatan, Mexico, about 20 m. N. of Valladolid; pop. about 3,000.

Espianade', n. [Fr., from Lat. planus, plain.] Any clear space used for public exercise.

(Fort.) The open space that should surround a citadel, and intervene between the main ditch and any fortifactions that may be the may a pround the town near

del, and intervene between the main ditch and any fortifications that may be thrown up around the town near which the citadel is situated. The E should be five or six hundred yards in breadth, measuring from the creat of the glacis. This open space of ground is necessary to deprive an enemy of the protection that buildings close to any citadel would afford to his troops while erecting batteries for the purpose of breaching the walls. (Gardenium) A grass-plot

(Gardening.) A grass-plot.

Espous'al, a. Used in or relating to the act of espousing or betrothment.

n. Act of espousing or betrething. — Adoption; protection; as, the espousial of another's wrongs.

apous als, n. pl. [O. Fr. espousailles.] Act of betroth-

-n. act or copusing or permining.—Adoption; protection; as, the expousal of another's wrongs.

Espous'als, n. pl. [O. Fr. expousailles.] Act of betrothing or of contracting or affiancing a man and woman to each other; a contract or mutual promise of marriage.

Espouse, (ex-poner', v. a. [Fr. epouser; O. Fr. expouser; lat. spondeo, sponsus, to engage or pledge one's self.] To betroth to promise or engage in marriage, by contract

betroth; to promise or engage in marriage by contract in writing or by some pledge. "Deliver me my wife, Michal, which I sepous'd to me."—2 Sem.

To take in marriage; to accept as spouse; to marry; to

"Espoused Eve deck'd first her nuptial bed."-Mill

To adopt; to take to one's self with a view to maintain; to adopt: to maintain: to support.

"The city, army, court, especies my cause."—Dryden.

Expouse'meent, n. Act of espousing.

Expous'er, n. One who espouses; one who embraces the cause of another.

Espressivo, (espresse'vo.) [It.] (Mus.) With expres-

sion.

Esprin'gal, n. (Antiq.) A kind of balista.

Esprit, St., (espre',) a town of France. dep. Lauders, on the Adour, opposite Bayonne, of which it is a suburb; pop. 9,000.

pop. 9,000.

Empy', v.a. [Fr. épier; O. Fr. espier; It. spiare. See
Seri.] To see at a distance; to observe or behold; to seek
or search after: to discern; to descry; to discover; to discover or see unexpectedly; as, to espy land.

To inspect narrowly; to examine; to survey.

v. n. To look narrowly; to look about; to watch.

"Stand by the way and copy."-Jer. zivili. 19.

Es'py, James P., an American meteorologist, B. in Washington co., Pennsylvania, 1785 His principal and much valued work is entitled *Philosophy of Storms*. D. 1860. En py, in *Pennsylvania*, a post-village of Columbia co., on the N. bank of the Susquehanna River, abt. 85 m. N.N.E. of Harrisburg.

En'pyville, in Pennsyleania, a post-village of Crawford co., on Shenango Creek. abt. 10 m. N.N.W. of Pittalurg. Enquinmans, (orke-mo.) sometimes called Eskinos, or enters of raw flesh," is the name given to a diminutive people inhabiting the coasts of all the seas, bays, inlets, and islands of America, north of the 60° N. Lat., from the eastern coast of Greenland, in Lon. 20°, to the Strait Behring, in Lon. 167° W. On the Atlantic, they are

to be found along the entire coast of Labrador to the Strait of Belle-isle, and down the east side of Hudeast side of Hud-son's Bay nearly as far as James's Bay: while on the Pacific they reach as far as the Peninsula of Alaska They are also to be met with on the Assatic side of Behring's Strait, and though few number, may regarded as in numb the most widely spread nation in the world, occupying, according to Mr. Gallatin, not less than 5,400 miles of coast, withoutincluding the inlets of the sea. Though in-habiting a coun-try where the Redskins are their closest neighbors. the Esquimaux differ from them in almost all physical points, being extremely short of stature,



Pig. 966. — ESQUIMAU.

short of stature, Fig. 966.— ESQUIMAU. almost white in complexion, living nearly exclusively on the fat or blubber of the whale, seal, and walrus, and dressed entirely in seal-skins, which he sews together in an extremely neat fashion with thread made from filsments of the long nerves of the whale. The dresses of both men and women are nearly alike. They live either in caverns of the mountains, or in huts made of



Fig. 967. - WINTER VILLAGE OF ESQUIMAUX.

sods and turf, and in the winter in round hovels constructed solely of blocks of snow, in the sides of which they insert sheets of ice to answer the purpose of windows (Fig. 967). In the brief months of what is called their summer they follow the occupation of hunters and fishermen, and during the darkness of their long winter spend the greater part of their time in their huts, mending their fishing-gear and repairing their clothes, or in long stretches of repose. The origin of the E. is much contested; but the most accredited opinion is that they belong to the Mongolian race, with which, according to Lathan, they have the flat nose, projecting cheek-bones, eyes often oblique, and skin more brown than red or copper-colored, thus presenting a marked contrast to the North American Indians. Gallatin, Duponceau, and Tr. Prichard, however, give to them the same origin as that of the hunting tribes of the North American Indians; and it seems generally admitted that their language is American in respect to its grammatical structure, being composed of long compound words, and regular, though remarkable, inflections. The habits of the E. are flithy and revolting in the extreme. A great part of their food is consumed without any attempt at cooking it; and they drink the blood of newly-killed animals sods and turf, and in the winter in round hovels con

as the greatest delicacy that could be offered them. Their religion consists principally in superstitious observances, but they believe, we are told, in two greater spirits and many lesser ones. The Moravian mission in Greenland, commenced by Hans Egode in 1721, has succeeded in converting many of them to Christianity; and they are represented by the missionaries to be a mild and teachable people, easily led by kindness to distinguish between what is morally right and wrong. Where the missionaries, however, have not penetrated, our arctic voyagers; generally speak of them as honest among themselves, but incorrigibly dishonest and prone to lying and exaggeration in their intercourse with strangers. Their commercial places are King-ing, on Cape Prince of Wales, Sesua-ling, at the mouth of the Nu-na-tak, Niga-lek, at that of the River Cobrille, and Nu-wu-ak, at Pt. Barter. En'qui manux, an island and harbor in the Gulf of St. Lawrence, N. America, on the Labrador coast; Lat. 540 35 N. Lon. 569 21 W.

Es'qui manux Dog, s. See Dog.

ESSE

35 N., Lon. 50° 21' W. Ex'quiman x Dog, s. See Dog. Esquima, a town of the Argentine Republic, La Plata, prov. of Corrientes, on the Parana River; pop. abt. 800. Esquipm'ina, a town of Central America, in the State of Guatemala, abt. 18 m. 8. by E. of Chiquimula; pop.

abt. 1.500.

abt. 1,500.

Loguire', s. [Fr. & Euyer, a shield-bearer; Lat. scutifer.]

In the Middle Ages and the days of chivalry the E. was
a young gentleman of good family in immediate attendance upon a knight, who carried his shield and performed
many duties in this capacity, which were not, however,
of a menial nature. The E. first served as a page in
the knight's household. When he was old enough and
possessed of sufficient strength and skill to bear arms,
the page was promoted to the rank of E. and attended
the knight at tournaments and in the battle-field. He
eventually became a knight himself, after exhibiting
such prowess in the field or elsewhere as might entitle
him to claim the spurs and other insignia of a knight.
In the present day, in England, the title of E. should
give the bearer precedence over gentlemen properly so

him to claim the spurs and other insignia of a knight. In the present day, in England, the title of E. should give the learer precedence over gentlemen properly so called, who are entitled to bear contarmor, but is of no value, owing to its universal assumption by those who have no claim whatever to attach it to their names. In England, the word E is a title of courtest, added to the names of all those who live in the rank of gentlemen.

—v. a. To attend; to wait on; as, to esquire a knight.

Esquiress, Henri Alphoner, (es-kwe'ros.) a French author, B. in Paris, 1814, and chiefly known as a leader of the French Republican party. In 1841 he was sentenced to some months' imprisonment for supporting the opinions of Lausennair. In 1850 he was elected as a representative of the people to the Legislative Assembly, and was exited after the coup d'dat, Dec. 2, 1851. He has since lived in England. His principal works are, Let Chants d'un Prisonnier (poems, written in the prison of St. Péiagle). L'Histoire des Montagnards, Les Martyre de la Liberti, and The English at Home (1862-3); England and English Life (1870); and English Sommen (1868). In 1871 he entered the National Assembly. D. 1876.

Esquisse, (es-kit') n. [Fr.] (Fine Arts.) The first outline of a picture, or model of a statue.

Essay', v. a. [Fr. essayer; It. assaggiare, to taste, to try, to attenue, from angiare. See Assay 1 To try: to

Ensay', v. a. [Fr. essayer; Ik. assaggiare, to taste, to try, to attempt, from saggiare. See Assay.] To try; to endeavor; to attempt.

"What marvel if I thus essay to sing?"—Byro

To make experiment of; to assay, as metals.
 Es/say, a. An attempt; a trial; an endeavor; an effort made, or exertion of body or mind, for the performance of anything; as. an essay in the right direction.
 A trial or experiment; a test, as of metals.
 (Lit.) A composition intended to prove or illustrate

-A trial of experiment; a test, as on mentals.

(Ltl.) A composition intended to prove or illustrate some particular subject; a tract; a short treatise or dissertation; as, Macaulay's Essays. [cssays.]

Es'sayer, Es'sayist, n. One who writes an essay or Es'seck, or Eszek, a fortified t. of Austria, in Sclavonia, on the Drave, 80 m. from Beigrade.

Es'sem, a town of Rhenish Prussia, situated between the Ruhr and the Emscher, 20 m. N. E. of Düsseldorf. Here are the immense coal, iron and gun works of Herr Krupp, giving employment to over 25,000 men. Pop. (1897), with suburba, about 82,000.

Essence, (es'sens,) n. [Fr. from Lat. essentia, from sum, esse; Sanak. as, to be.] Being; a being; the nature, substance, or being of anything; formal existence:—sometimes termed nominal essence.

That which makes anything to be what it is; the peculiar nature of a thing; the very substance; existence; as, the essence of Christianity.—The quality of being; existent person.

existent person.

"As far as gods and heavenly essences can perish."-Mili Constituent substance; the predominant qualities or virtues of any plant or drug separated from grosser matter; as, essence of clove.

matter; as, essence of clove.

(Prfumery.) A solution of one or more essential oils in sloohol, and may be prepared (1) by adding rectified spirit to the doriferous parts of plants, or to the essential oils, and distilling; or (2) simply by adding the essential oil to the rectified spirit, and agitating till a uniform mixture is obtained. Thus the essence of lemons is merely a solution of the volutile oil of lemons in rectified

(Phil.) A scholastic term, denoting what the Plato-(Phil.) A scholastic term, denoting what the Platonists called the idea of a species. The school philosophers give two significations of the word essence: the first denoting the whole essential perfection of a being, and consequently its entity, with all its intrinsic and necessary attributes taken together; the second denoting the principal or most important attributes of any thing. The essences of things were held by many to be uncreated, eternal, and immutable.

Ensence de Petit Grain, s. [Fr.] See Civius.

Ensence d'Orient, s. [Fr.] A term applied to a pearly-looking matter found principally at the base of the beale of the beale as mail fish of the gen. Cyprinus; it is used to line the interior of glass bubbles or beads, as in the manufacture of artificial pearls.

—e. a. To perfume: to scent; to make aromatic.

"The husband rails at second fops and tawdry courtiers."

Addiese.

"The husband ralls at sessenced fops and tawlry courtiers."

Ennemen. (excens.) n. [Gr. Essencion, from Chald. dsayd; Heb. asd. to heal.] (Jewish Hist.) A sect which existed among the Jews during the lifetime of Christ. They are not mentioned in the New Testament, but they are described by Josephus and Philo. The authenticity of the account ascribed to the latter is, however, doubtful, as a work in his name, De Vita Contemplatird, is proved to have been written by a Christian monk. According to Josephus, the Jews were divided into 3 sects,—the Pharisees, the Sadducees, and the Essenea. The Sadducees were essentially a political party, and the E were those who carried out the views of the Pharisees to an extent which made them ridiculous in the cyes of the party from which they sprung. Levitical purity hemmed them in with so many restrictions that it soon became necessary for them to live in retired and ionely places. The sect had not a large number of followers, but John the Baptist, and even Christ himself, are considered to have sprung from this division of the Jewish population. They took no part in public affairs, and spent their lives in contemplation. They adopted cellibacy, and had no individual property. In matters of belief they held the Scriptures in the highest reverence, interpreting it, however, by an allegorical system of their own: they besenism, in the stage of Sabelam, resulted Islamism, in the full development of whose tenets and practices several of the principal rites of the Essenes are praserved. Essenisms, n. Doctrine of the Essenes are praserved.

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Essenisms, n. Doctrine of the Essenes are praserved.

Jodes sential to a general than courage." Deal -Pure; highly rectified; volatile; containing the essence of; as, an essential oil.

E. character. (Nat. Hist.) That which distinguishes one genus, species, &c. from snother.

E. disra.c. (Med.) A disease not superinduced by an-

That which is essential or necessary; the chief point; the most prominent characteristic; first or constituent

cother.

2. That which is essential or necessary; the chief point; the most prominent characteristic; first or constituent principle; nature; as, the \*\*essentials\* of religion.

2. Essential\* first or constituent principles.

2. Essential\* first or constituent principles.

2. Essential\* first or constituent principles.

2. Essential\* Oil, n. (Chem.) The odorous principle of a plant. Essential oils are also callel volatile oils, to distinguish them from the fixed oils. Chemically speaking, they are either hydrocurbons or oxidized hydrocarbons, and oils containing sulphur. They are extracted from different parts of plants, some plants yielding two different essential oils. Thus the orange yields two distinct essential oils, one from the flower, the other from the peel of the fruit. They are prepared in different ways, either by enfleurage, by pressure, or by being distilled with water. The principal use of essential oils; if the reader is curious on the subject, he may find a great deal of valuable information respecting them in Piesse's \*\*Art of Perfusery\*, 3d edition.

2. Essential\* of valuable information respecting them in Piesse's \*\*Art of Perfusery\*, 3d edition.

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2. Essential\* of \*\*Essential\*\* of \*\*Esse

Er'sex, in Massachusetts, a N.E. county; area, about 500 sq. m. Rivers. Merrimac and Ipswich rivers. Its E. and S.E. borders are washed by the Atlantic ocean and Massachusetts bay respectively. Surface, broken and rocky; soil, in some parts fertile. Massaf. Shoes, leather, &c. Capitals. Lawrence, Salem and Newburyport. Pp. (1896) 330,393.

-A post-town and township of Essex co., about 28 m. N.E. of Boston.

Er'sex. in Michigan a formal in the sale of Boston. Er'sex, in Massach

of Boston.

Ba'sex, in Michigan, a township of Clinton co.

—A village of Clinton co., abt. 25 m. N. by W. of Lansing.

Ba'sex, in New Jersey, a N.E. co.; area, about 127 sq. m.

Biror. Passaic river and Bound Brook. Its borders

are also washed by Newark bay and Staten Island
sound. Surface, level; soil, fertile. Cap. Newark. Pop. (1895) 312,000

(1885) 31.2400.

Essex, in New York, a N.E. co.; area, about 1,650 sq. m. Rieera. Au Sable, Boquet, and Scroon rivers, as well as the headwaters of the Hudson. Lake Champlain is on the E. border. Surface, varied, being level in the E., and mountainous in the W., where Mt. Marcy presents the highest elevation in the State. Soil, generally fertile. Miserals. Iron, limestone, marble, and black lead. The Adirondack mountains are situated in the N.W. of this co. Magnetic iron or abounds. Cap. Elizabethtown. Pop. (1890) 33,052.

Apost-town and township of Essex co., on Lake Champlain, about 130 m. N. by E. of Albany.

Essex, in Vermont, a N.E. county; area, about 730 sq. m. Riers. Connecticut, Passumpsic, Clyde, and Nulhegan rivers. It contains numerous small lakes. Surface, mountainous; soil, not fertile. Cap. Guildhall. Pop. (1890) 9,511. Sex, in New York, a N.E. co.; area, about 1,650 sq. m

A put-village and post-town of Chittenden co., about 35 m. N.W. of Montpelier.

m. N.W. of Montpelier.

Ewsex, in Viryinia, an E. county; area, about 235 sq. m.

Biers. Rappahannock river. Surface, generally even;

sol, fertile. Cap. Tappahannock. Pop. (1880) 10,047.

Ems'ling. See Poer Esstatorox.

Ems'ling, a village of Lower Austria, on the left bank
of the Danube, 6 m. below Vienna. Between this village
and that of Aspern a battle was fought between the

French and the Austrians, in which the former were vic
torions. This victory was dealy naid for since it cost

French and the Amstrians, in which the former were victorious. This victory was dearly paid for, since it cost the life of Marshal Lannes. Marshal Massena received the title of Prince of Essling.

Emellingem, a town of Wüttemberg, on the Neckar, 6 m. from Stuttgart. Manuf. Woollens, cottons, lacquered wares, and musical instruments. Pop. 8,711.

Emeoln', s. [O. Fr. essoigne; L. Lat. essonia.] (Eng. Law.) Allegement of an excuse for one who fails to put in an appearance in court when called upon; presentation of such excuse.—The person excused for non-appearance in court at the appointed day.

Emeoin-day, the day on which the court sits to receive essoius.

e. c. (Eng. Law.) To put in an excuse for the non-

rance of in court.

n'er, n. [O. Fr. essoigner.] (Eng. Law.) An
ey who presents the excuse of another for nonasoin'er, n. [ ince in court.

Exsentee, n. (Min.) Same as CINNAMON-STONE, q.v.
Exsentee, (et son.) a town of France, on a river of the
same name, abt. 15 m. from Paris, much known for its

numerous mills; pop. 5.244.
En'soramt, a. [Fr.] (Her.) Noting a bird standing on the ground, with the wings expanded, as if making an

the ground, when the first first first form Lat. Stabilio—sta, root of sto, to stand.] To make stable, firm, or steadfast; to make to stand firmly; to set or fix firmly or unalterably; to settle permanently; to found definitively; as, "the established laws of the kingdom." Hale.

-To institute; to constitute; to form; to erect and fix or settle; as, to establish a colony.

-To snact; to decree; to ordain; as, established regulations.

-To ratify; to sanction; to confirm; to approve.

"Se were the churches established in the faith." — Acts xvi. 5.

To found a business; to take precaution against assault or danger; as, an established firm, our troops established themselves in the heart of the enemy's country.

Batablisher, n. One who establishes, settles, confirms, or ordains.

nrms, or ordains.

Estab lish mm eut, n. [Fr. élablissement.] Act of establishing or settling firmly; settlement; fixed state;
confirmation: ratification.—State of being established,
settled, founded, or confirmed.—That which is fixed or settled, founded, or confirmed.—That which is fixed or established; sanction; fundamental principle; settled law; foundation; basis; ground; form; ordinance; system of laws; constitution of government; stated allowance; means of subsistence; income; salary; wages; a place of residence, or of transacting business: that form of religious worship which is established and supported by the state; settlement or final rest.

\*\*Isbraok. in Transsec, a village of Anderson co., sbt. 100 m. E. of Nashville.

Estarade', n. [Fr.; Span. estacada.] (Mil.) A dike constructed with niles in the sea a river, or a morrose to

sbt. 160 m. E. of Nashville.

Estacade'. n. [Fr.: Span. estacada.] (Mil.) A dike constructed with piles in the sea, a river, or a morass, to hiuder the entrance of an enemy.

Estafet', Estafette. n. [Fr. estafette; Sp. estafeta.] A courier; one of a body of couriers in relay.

Estagel, a town of France, dep. Pyrésées Orientales, abt. 10 m. from Perpignan. It is famous as the birth-piace of Arago, the astronomer. Pop. abt. 2,500.

Estaing. (\*stamy'.) Charles Hector, Courr n', a French naval officer, served under Count Lally in India, where he was made prisoner by the English. In the American war of independence he was employed as vice-

admiral and general of the French armies, and took the island of Grenada. In 1787 he became a member of the Assembly of Notables, and commandant of the national guards at Versailles at the commencement of the Revolution. B. in Auvergne, 1729. Guillotined at Paris, 1794.

Estampes, (estamp',) ANNE D'HEILLY DE PISSELM DUCHESSE D', was a mistress of Francis I. of France. She carried on a correspondence with Charles V. of Spain, and informed him of the state of the armies and the country

informed him of the state of the armies and the country. By her means Charles was enabled to gain considerable advantages, and to humiliate France. After the death of Francis she retired to her country seat, and n. 1576.

Estan'cia, a town of Brazil, abt. 26 m. 8.W. of Sergipe, on the Pianhi River; pop. abt. 4,000.

Estate', n. [Fr. état; O. Fr. estat, from Lat. status—sta, to stand.] A standing; position; state; condition; fixedness; established condition; condition or circumstances of any person or thing; rank; quality; as, "fallen from his estate." (Dryden.)—Landed or other property; possessions; domain: fortune; title or interest which a person has in lands, tenements, stock, &c.; as, a fine seesions; domain: lortune; title or interest which a person has in lands, tenements, stock, &c.; as, a fine estate, a bankrupt's estate, &c.

-An order or class of men in the body politic, as nobles and commoners, patricians and plebeians.

"Lords, high captains, and shief estates of Galiles."—Mark vi. 21.

Possessions of a prince or monarch; as, the estates of

the realm.

(Law.) The word estate has several meanings. (Law.) The word escate has several meanings. 1. In its most extensive sense, it is applied to signify everything of which riches or fortune may consist, and includes personal and real property; hence we say, personal estate, real estate. 2. In its more limited sense, it is applied to lands. It is so applied in two senses. The first describes or points out the land itself, without acceptants into the extent or value of the interest therein. ascertaining the extent or value of the interest therein; as, "my estate at A." The second, which is the proper and technical meaning of estate, is the degree, quantity, nature, and extent of interest which one has in real property; as, an estate in fee, whether the same be a fee-simple or fee-tail, or an estate for life or for

years.

Este, (est.) a river of Hanover, enters the Elbe abt. 6 m. from Altona.

Este, (est.) a town of Lombardy, abt. 15 m. from Padua.

Manuf. linen, silk, earthenware, &c. Pop. abt. 8,000.

Este, an illustrious house of Italy, which owes its origin to the Carlovingian æra, at the beginning of the 6th century. The most celebrated names are:—Alegar Azso D'Este, the first who possessed the city of that name, 1020-1117.—Obizzo, first marquis of Eacl, lord of Padua in 1182, and afterwards marquis of Milan and AZEO D'ESTE, the first who possessed the city of that name, 1020-1117. — OBIZEO, first marquis of Este, lord of Padua in 1182, and afterwards marquis of Milan and Genoa. — His son, AZEO V., who by his marriage acquired the sovereignty of Ferrura and became chief of the Guelis of Venice, died 1192. — AZEO VI., son of the preceding, lord of Ferrara and Verona, died 1264. — HERCULEA I., lord of Ferrara and Modena, whose court was graced by Arlosto, Boiardo, the Strozzi, &c., 1471-1505. — His son Alphonso, married to Lucretis Borgia 1502, a party to the league of Cambrai, reigned 1506-1531. — HIPPOLYTUS, brother of Alphonso, and cardinal of Este, a patron of letters, partisan of Louis XII., and historian of the war of the French against the Venetians, 1479-1520. — Alphonso II., grandson of the first of that name, duke of Ferrara and Modena, distinguished as a patron of arts and letters, 1533-1597. — CZESI, an illegitimate descendant of Alphonso II., reigned at Modena 1597-1628. — RENAUD. a partisan of Austria in the war of succession, and duke of Modena, 1655-1737. — Hercules III., grandson of Renaud, and, like him, duke of Modena, was the last of this house in Italy, and his setates passed to Austria, by the marriage of his daughter with the archduke Ferdinand, 1727-1797. Exceeding, v. a. [Fr. estimer; Lat. estimo — zz. copper, brass, money, and an old verb tumo, probably from Gr. timao, to value, to prize.] To determine the money value, as of anything; to set a value on, whether high or low; to estimate; to value; to appreciate; to compare in value; to estimate by proportion.

"I preferred her before secories and thrones, and esteemed riches

in value; to estimate by proportion.

'I preferred her before sceptres and thrones, and esteemed rich othing in comparison of her." — Wied, vil. 8.

To set a high value on; to regard with reverence, respect, or friendship; to prize; to revere, to respect; to hold in good opinion; to repute.

To know, to esteem, to love, — and then to part, Makes up life's tale to many a feeling heart." — Coloridge.

v. n. To form an estimate in regard to the value of; to consider with respect to value or worth.

"Many would esteem little of their own lives."

"Many would esterm little of their own lives." — Hooker.

n. [Fr. estime.] Estimation; opinion or judgment of merit or demerit; high value or estimation; great regard; favorable opinion; as, "esteem for virtuous poverty." — Dryden.

Esteem (able, a. Worthy of esteem; estimable.

Esteem er, w. One who highly values; one who sets a high value upon anything.

"The proudent esteemer of his own parts." — Locks.

Estella, (ais-tel'la,) a town of Spain, in Navarre, about

26 m. from Pampeluna. Many. Principally woollens, &c. Pop. (1887) about 6,000.

Estel'ia, in Wiscossis, a post-office of Chippewa co.

Estelville, in New Jersey, a post-office of Atlantic co.

Estelwille, in New Jersey, a post-office of Atlantic co.

Estelwille, in New Jersey, a post-office of Atlantic co.

Estelwille, in New Jersey, a post-office of Atlantic co.

Estelwille, in New Jersey, a post-office of Atlantic co.

Estelwille, in New Jersey, a post-office of Atlantic co. p. about 9,000.

by about suon.

Sther, a Persian name given to Hadassah, a Jewess
of the tribe of Benjamin, daughter of Abihail, and
cousin to Mordecai. Ahauerus, king of Persia, married cousin to moruceas. Ansaucrus, ang or return amarica, her after divorcing his queen Vashti. His favorite minister. Haman, out of resentment to Mordecal, having plotted the destruction of all the Jews in the empire, she in their behalf supplicated the king, who revoked the decree, and ordered Haman to be hanged on the gallows which he had prepared for Mordecai. In memory of this deliverance, the Jews celebrate the yearly feast of Purim. Sather. (Book of.) (Script.) One of the historical books of the Old Testament, placed after that of Nehe-mush and containing the historical than the place of the

books of the Uni Testament, placed after that of Nenemiah, and containing the history of the above Jewess. According to the opinions of the most learned and unprejudiced critics, the date of its composition must be placed after the downfall of the Persian monarchy. The language is much later than that of Exra, to which it has been attributed, and the fact of occasional explanations of Persian content fits the project of the Schender. placed after the downfall of the Persian monarchy. The language is much later than that of Ears. to which it has been attributed, and the fact of occasional explanations of Persian customs fits the period of the Seleucidas better than an earlier one. The Hebrew text is that which has been followed in the English version; but the Septuagint is full of late interpolations and additions by Alexandrian Jews. The book is held in the highest reverence by the Jews; so much so, that Maimonides declared that, in the days of the Messiah, every Jewish scripture would be forgotten except the book of Esther and the Pentateuch. The book is not written in a theocratic spirit, like the rest of Jewish literature. Nothing is directly attributed to God; in fact, his name is not once mentioned. Neither is there the remotest trace of religious feeling of any kind.

Estherville, in fosca, a post-village, cap. of Emmett co., about 40 m. N.W. of Algons.

Estherville, an fosca, a post-village, cap. of Emmett co., about 40 m. N.W. of Algons.

Estherville, an info. See Æstherics.

Estherville, and See Æstherics.

Estherville, and See Æstherics.

Estherville, in fosca, a post-village, cap. of Emmett co., about 40 m. N.W. of Algons.

Lat. 58° 16'-39° 40' N., Lon. 22° 10'-28° 5' E. Arca, about 7,800 sq. m. Surface, generally level; soil, sandy and not fertile. Rivers. Narva, Keyl, and Loksarivers. Produce. Hemp, flax, hops, and tobacco. E. was for a long time the object of contention between the Russians, Poles, and Swedes, and was finally confirmed to the latter by the peace of Oliva in 1600; Peter the Great subdued it in 1710, and it was ceded to the Estiferous, a. [From Lat. estus, fire, and ferre, to bear.] Producing caloric.

Estiliville, in Kenucky, an E. central co.; arca, about 200 sq. m. Rivers. Kentucky and Red rivers. Surface, hilly; soil, fertile. Missing. Iron and coal. Capital, Irvine. Ppp. (1880) 10,836.

Estiliville, in Venucky, and Contention between the Secondarian descention of Scott co.; now GATE Cirry.

of Scott co.; now GATE CITY

or valued; us, estimable loss. — Valuable; worth a high price.

Man's flesh ... is not so setimable ... as flesh of murrous -Worthy of esteem or respect; deserving of good opinion, consideration, or regard; as, an estimable woman.
-s. Anything deserving good opinion or regard. (a.)

"One of the peculiar esti ables of her country." - Bro

Es'timableness, n. The quality of meriting respect

Ex'timableness, n. The quanty of merring respect or regard.

Ex'timably, adv. In an estimable manner.

Ex'timable, v.a. [Lat. extimo, extimatus. See ESTRIM.]

To fix or set a price or money value upon; to judge and form an opinion of the value of; to rate by judgment; to calculate; to reckon; to compute; to rate; to appraise; to appreciate; to value; to price; to esteem; as, to estimate a man's abilities, to estimate the value of a commodity, to estimate the profits of a commercial venture. &c. venture &c.

valuing or rating in the mind; a judgment or -7. A valuing or rating in the minu; a judgment or opinion of the value, degree, extent, or quantity of anything; valuation; estimation; approximate calculation of the probable cost of any undertaking. Satimarélion, a. [Fr., from Lat. axtimatio.] Act of estimating or valuing. — Estimate; valuation; appreciation; appraisement; calculation; computation; a reckning; as an extinction of distance. — Onlines: inde-

oning; as, an estimation of distance. — Opinion; judgment; notion; esteem; regard; respect; honor. "I know the gentleman . . . to be of worthy estimation."

En'timative, a. [Fr. estimatif.] Serving or tending to estimate.
"We find in animals an estimative or judicial faculty." — Hale.

Es'timator, n. [Lat. astimator.] One who estimates,

Es'timator, n. [Lat. assimator.] one was computed, or values.

Es'tival, a. [Lat. astivus, from astas, summer; allied to Gr. aithô, to burn.] Pertaining to summer; astival; continuing through the summer.

Estiva'tion, n. [Fr.; Lat. astivatio.] Act of passing

"A group is a place of shade or estination." - Recom

(Bot.) See ÆSTIVATION.

Entoliée, (es-iwo-la',) a. [O. Fr.] (Her.) Applied to a star with only four long rays in the form of a cross, broad in the centre, terminating in a sharp point, and called Cross estoilée.

called Cross estoilée.

Entop', v. a. [L. Lat. stopare.] (Law.) To bar; to stop; to precinde.

Entopl'in, n. [Sp.] A kind of mixed linen fabric.

Entoplel, n. [See Rsrop.] (Law.) An impediment or bar to a right of action, arising from a man's own act, or that of one to whom the party estopped is privy. As, if a party is bound by a particular name in an obligation, and afterwards sued by that name on the same obligation, he is estopped, i. e. forbidden in law to say in abatement that he is misnamed; as he cannot say contrary to that which he has admitted by his own deed. All parties to a deed are estopped to say anything against what is contained in it; and privice are also bound.

also bound. Digitized by

Esto'vers, s. pl. [O. Fr.] (Law.) Necessaries allowed by law, as sustenance, alimony, &c.—Also the right which a tenant has to furnish himself with so much wood from the demised premises as may be sufficient or necessary for his fuel, fences, and other agricultural

Estrade', s. [Fr.] The portion of the floor of a room raised two or three steps above the general level for ESTRACE, n. [Fr.] The portion of the moor of a room raised two or three steps above the general level, for the purpose of receiving a bed or throne; it is used now for any partion of a raised floor.

Estramacon, (-2-r/um'a-on.) n. [Fr.; It. stramacon.] A kind of two-edged sword used in former times.

Also, a blow from such a sword.

—Also, a now from such a sword.

Entranger, (estranger,) v. a. [Fr. étranger; O. Fr. estranger, from L. Lat. extraneus, alien, foreign, from Lat. extra, outward.] To alienate; to keep away, aloof, or at a distunce; to withdraw; to cease to frequent and be familiar with.

"Infidels estronged from the house of God." - Hool

To divert from its original use or possessor. —To alienate, as the affections; to turn from love and kindness to indifference or malevolence; as, a wife es-tranged from her husband.

Estran gedness, n. State of being estranged; estrangement.

Estrangement, n. Alienation; a keeping at a distance; removal; voluntary abstraction.

Estranger, n. One who brings about an estrange-

ment.

Estrapade', n. [Fr.: Sp. estrapada.] (Man.) The action of a horse that will not obey, and, seeking to get rid of its rider, rises up before, and, while his forehand is yet in the air, jerks his hind legs furiously out.

Estray', n. [O. Fr. estrayer. See Straxt.] (Law.) A tame least, as a horse, ox, ass, or sheep, which is found

tame least, as a norse, ox, ass, or sneep, which is found straying or wandering, or without an owner. They belong to the lord of the soil.

Estreast, n. [O. Fr. estrait, from Lat. extractus.] (Eng. Law.) The extract copy, or note of some original writing or record, and especially of fines and americaments, entered on the rolls of the court, to be levied by its halffore other offices.

entered on the rolls of the court, to be levied by its bailiff or other officer.

—v. a. (Law.) To take from, by way of fine.

Estrées, Gabrielle D'. See Gabrielle D'Estrées.

Estrélla, a river of S. America, empties into the Pacific Ocean from Costa Rica, near Quaypo.

Estrélla, a town of the Republic of Colombia, prov. of Antiquia, about 5 m. S. W. of Medellin.

Estrélla, in Coijonna, a post-village of San Luis Obispo. c., about 40 m. N. N. E. of Sau Luis Obispo.

Estrélla, Porta da, a seaport-town of Brazil, on the Bay of Rio de Janeiro, ab. 16 m. N. of Rio.

Estrélla, Serra da, a mountain-chain of Brazil, prov. of Rio de Janeiro. Length from E. to W. abt. 18 m.

Estrélla, Serra de, a mountain-chain of Brazil, prov. of Rio de Janeiro. Length from E. to W. abt. 18 m.

Estrélla, Serra de, a mountain range of Portugal, in the province of Beira. Length abt. 75 m. Highest peak 7,52) ft.

Estrémagdura, (ais-trâi-ma-door'a,) an extensive

in the province of Beira. Length abt. 75 m. Highest peak 7,52) ft.

Estremadura, (ais-trāi-ma-door'a,) an extensive prov. of Spain. lying between 37° 54' and 40° 38' N. Lat., and 4° 50' and 7° 24' W. Lon. It has Salamanca, and parts of Avila, on the N.; Toledo, La Mancha, and part of Cordova, on the K.; Seville on the S.; and Alentejo and Beira, in Portugal, on the W.; arva, 14,329 sq. m. Estremadura is now divided into the two provs. of Badajoz and Caceres. Although a continuation of the high table-land of New Castile, E. is, like it, a uniform plain, ut is mountainous on the N. and S., and is well watered, the slopes of the hills being covered with wood, and the valleys with rich grass. Notwithstanding the fertility of the soil, the land has lain desolate and uncultivated ever since the expulsion of the Moors in the 13th century. The breeding of goats, swine, horses, asses, and mules is much attended to. The mines, which were formerly very productive, are no longer worked. Commerce is confined almost entirely to a contraband trade with Portugal. The inhabitants are poor, and, from the want of roads, isolated from the rest of Spain, and consequently in a low state of civilization. Pop. 743,800. Estremadura

rest of Spain, and consequently in a low state of civilization. Ppp. 743,800.

Estremadura, a large prov. of Portugal, including
Lisbon, the capital. It extends along the Atlantic, to
the N. and S. of Lisbon; being bounded N. by Beira,
and E. by Alentejo; area 8,180 sq. m. The country is
generally littly. To the W. of the sextary of the Tagus
are the granite mountains of the Sierra da Cintra, varying from 1,600 to 1,800 feet in height, and terminating
in the Cabo de Roca. To the S. of the Tagus are barren
moors, partly broken by morasses, and the limestone
chain of Arrabida, rising to a height of 1,000 feet, and
terminating in the Cabo de Espichel. Many districts
are extremely fertile, others are barren and uncultivated. Prod. Wine, oil, fruits, corn, and cork; but even
the sandy plains are covered with cistus, rosemary,
myrtles, and other flowering and fragrant plants. The
breeding of cattle is not much attended to. Minerals.
Marble, coal, and sea-salt. This province has been frequently visited by carthquakes. Pop. 815,000.

Estreme in an. a. (Geog.) Relating or pertaining
to the province of Estremadura, Spain.

— A. hattee or inhabitant of Estremadura.

Estremes, Estremos, Estremos, and

—n. A native or innation of Extremagna.
Estremes, Estremos, Estremos, (ais'trai-mos,) a fortified town of Portugal, prov. Alentejo, on the Tarra, 22 m. from Evora, pop. 7,886.
Estremos', a town of Brazil, prov. of Rio Grande do Norte, on Lake Guajiru, abt. 16 m. N. of Natal; pop.

Estrepe', v. a. [O. Fr. estreper, from Lat extirpare, to root up.] (Law.) To commit waste or spoil in lands, houses, &c., to another's damage, as by cutting down root up.] (Law.) To commit waste or spoil in land, —n. An appellation of God.
houses, &c., to another's damage, as by cutting down trees, &c., to another's damage, as by cutting down trees, &c.,

Estrepe'ment, n. [0. Fr.] (Law.) Any spoil or Eter'mally, dw. Without beginning or end of dura-

waste made by the tenant for life upon any lands or woods, to the prejudice of him in reversion; also mak-ing land barren by continual ploughing. Entrich, Entridge, (at'rij.) s. (Com.) The fine down taken from beneath the feathers of the ostrich.

down taken from beneath the feathers of the ostrich.

Est'uary, n. See Æstuart.

Est'uarte, v. n. [Lat. zstuare.] To boil; to swell, seethe, and rage; to be in a state of violent commotion.

Estuartion, n. [Lat. zstvatio.] Act of estuating; violent commotion, perturbation, or excitement; as, estuation of the blood.

estuation of the blood.

Essek, Esseck, Esseg, a town and fortress of Austria, cap. of Slavonia, on the Drave, 13 m. from its confluence with the Danube; pop. 14,000.

Esseria, (c-k'reo.) n. [Gr. etaireia, society.] (Bot.) A kind of fruit, examples of which are afforded by the Strawberry, Ranuncules, and Adonis. When the achienia (see ACHEMIUM) borne by a single flower are so numerous that they form more than a single whorl or series, they constitute collectively an E. In the ranuncules and adonis, the achienia are placed on a convex thalamus of a dry nature; in the strawberry they are placed upon a fleshy thalamus. The so-called seeds of the strawberry are in reality so many separate seeds of the strawberry are in reality so many separate seeds of a neary transmus. The so-called seeds of the strawberry are in reality so many separate achievia; while the part to which the strawberry owes its value as a fruit is mere-ly the succulent thalamus. In the fruit of the rose, the ly the succulent thalamus. In the fruit of the rose, the achsenia, instead of being placed on an elevated thalamus, are situated upon a concave one, to which the calyx is attached. This modification of the ordinary E. is regarded as a distinct fruit by some botanists, who have distinguished it by the name of Cymnorhodum. In the raspberry and blackberry, a kind of E. is formed of little drupes or drupels, crowded together upon a dry thalamus.

thanus.

Etagère, (it-a-char',) n. [Fr.] An article of household furniture with a set of shelves, as a side-board, a whatnot, or the English davenport.

Ctampes, (\*Camp.) a town of France, dep. Seine et Oise, abt. 20 m. from Versailles. It has a considerable trade in flour and wool, and more than 60 mills. Pop. 10.842.

10,842. Etaples, (ai-lapl.) a scaport of France, in the Pas-de-Calais, abt. 11 m. from Boulogne. E. is memorable as the place where the treaty of peace was concluded between Henry VII. of England and Charles VIII. of France, when the latter was on the point of setting out on his Italian expedition.

Etat Major, (ai-lai mal-shar). m. [Fr., from état, state; lat. status, and major, greater.] (Mil.) The staff-officers; staff.

Etata-Umin. [Fr.] See United States.

Etate-Unis. [Fr.] See UNITED STATES.

Etawah, (et.-e.ucu,) a fortress and cap. of a dist. of
British India, between the rivers Jumna and Ganges,
abt. 60 m. from Agra; area of dist. abt. 1.675 sq. m. 19p.
abt. 500,000. Thuggism formerly prevailed in this dist.

Etemptera, (et.-ete-era.) [lat.] (Contracted into etc. or
de.) And the rest, or others of the kind; and so on;

dc.) And the rest, or others of the kind; and so on; and so forth.

Etch, (ech,) n. a. [D. etsen; Ger. ützen, to corrode by acid; root, Sansk. ad, to eat.] To produce figures or designs on copper or other metallic plates by means of lines or sketches first drawn. — To sketch; to delineate;

to illustrate.

to illustrate.

-r. n. To practise the art of etching.

Et'chemin, or Echemin, a river of Upper Canada, rises in a lake of the sume name in Lat. 46° 21′ N., Lon. 70° 37′ W., and enters the St. Lawrence abt. 4 m. above Quebec. Length, abt. 50 m.

Etch'er, n. One who practises etching.

Etch'ing, n. Act or art of etching; a mode of engraving.— Impressions taken from an etched plate.— See North 1888 of the Canada and the control of the cont

ENGRAYING, and PLECTRO-ETCHING.

Etch'ing-needle, n. A finely-pointed steel instrument, used by etchers for tracing out lines, &c., on a me-

ment, used by etchers or tracing out lines, e., on a mea-tailic plate.

\*\*Ecocles\*, (cle'o-klees,) a son of Edipus and Jocasta.

Atter his father's death, it was agreed between him and
his brother Polynices, that they should both share the
royalty, and each reign alternately a year. E., by right
of seniority, first ascended the throne; but after the first of seniority, first ascended the throne; but after the lifest year of his reign he refused to resign in favor of his brother. Polynices resolved to punish him, and for this purpose sought the assistance of his father-in-law, Adrustus, king of Argos, who assisted him with a large army. War commencing, and having been carried on with various success for some time, it was at last decided but the two bothers that they should and their dispute. by the two brothers, that they should end their dispute by engaging in single combat. They both fell, and it is said that their ashes separated themselves on the burn-ing pile, as if sensible of resentment, and hostile to re-

conclination.

Eteos'tic, n. [Gr. èleos, year, and stichos, verse.] A

chronogram.

chronogram. ther'mal, a. [Fr. éternal; Lat. sternus, seriturnus, serum; Gr. aion, a lifetime, and ternos, denoting continuance. The Gr. aion is akin to aci, always, forever.] Without beginning or end of existence; that has always been and always shall be.

"The sternal God is thy refuge." - Deut. xxxiii. 27.

Without end of existence, or duration; endless; im-"But in them nature's copy not eternal." - She

Ceaseless; perpetual; interminable; without intermis

sion.
"And fires sternal in thy temple shine." -Unchangeable ; immutable ; as, "eternal truth." Dryden

tion, or without end only: forever: unchangeably: invariaby; at all times; perpetually; without intermission.

Eter'mity, n. [Fr. ttermit; Lat. atermitas.] Duration or continuance without beginning or end; duration without end; the state of time after death.

ETHE

out ond; the state of time after death.

(Phil.) An attribute of the Deity, the existence of whom, according to the true principles of religion, is without beginning or end. It is a negative idea clothed with a positive name. To whatever it is applied, it supposes a present existence, and it is the negation or denial of any beginning or end to that self-same state of existence. As applied to the Deity, it has not been controverted by those who acknowledges delty at all. On the common hairs of interpretation shifteness. by those who acknowledges deliy at all. On the common basis of argumentative philosophy, there never could have been a time when nothing ever existed, as assuredly that state of nothing impainable must have necessarily have continued up to the present time. In strictness, however, we have nothing to do with duration prior to that of the visible world; it is sufficient for us to know that the contriver existed before his handswork Extensity being infinite, is inconceivable by our finite un-derstandings; at the same time, we cannot imagine an infinite being to exist without it. There is a distinction made between an anterior and a posterior eternity; the latter belongs to beings whom God proposes to preserve

forever, the former to himself alone.

ter'mise, v. a. [Fr. ternizer.] To make eternal or endless; to perpetuate; to make forever famous; to immortalize.

mortalize.

Etesiam. (e-te\*:t-an,) a. [Gr. etesiai (anemoi, winds, being understood), periodical winds, monsoons; elesias, for a year, every year, from etos, a year.] Annual; yearly; periodical; blowing at stated times of the year, as the monsoons and trade-winds.—See Wind.

E'thal, n. [From the first syllables of ether and alcohol.] (Ciem.) When spermacet is saponified, it yields ethal instead of glycerine, as is the case with the ordinary fats. It is a white solid, fusible at 115° Fahr., and adubla in slephol. evystallizing in plates as it rouls.

soluble in alcohol, crystallizing in plates as it cools. It possesses the constitution and properties of a true alcohol, and stands in the same relation to palmitic acid that ordinary vinous alcohol does to acetic acid. Form. Cg

H<sub>M</sub>/1<sub>s</sub>.
E'tharm. [Heb., their strength.] A station of the Israelites, soon after leaving Egypt, (Ex. xiii. 20; Num. xxxiii. 6.) It lay near the head of the west gulf of the Red Sea, and the wilderness east of it was often called by the

Sen, and the wilderness east of it was often called by the same name.

E'tham. (Script.) I. One of four men renowned for wisdom, though excelled by Solomon, (1 Ain. iv. 31; 1 Gr. ii. 6.) He appears to have been a son of Zerali or Ezra, and grandson of the patriarch Judah.—II. A Levite, son of Kishi, and one of the three masters of the temple-music, (1 Chr. vi. 44; xv. 17-19.)—III. A person to whom Psalm 89 is inscribed.

Etham'ima, [Heb., constantly flowing.] (Script.) A month so named before the capitivity, because the autumnal rains then began to fill the dry river-channels. It was afterwards called Tishiri, and answers nearly to our October. On this month Solomon's temple was dedicated.

our October. On this month Solomon's temple was dedi-

our October. On this month Solomon's temple was dedicated, (I Kin. viii. 2.)

Eth'elbald, king of Wessex, was the eldest surviving son of Ethelwolf. He married his stepmother, Judith of France, but was forced to abandon that connection, and she became the wife of Baldwin, count of Flanders, and the ancestress of Matilda, wife of William the Conqueror, and, through her, of the kings of England. Ethelbald was engaged in military conflicts with the Danes, and distinguished himself by the common quality of bravery, but otherwise holds no remarkable place in history. D. 860.

bravery, but otherwise holds no remarkable place in history. D. 860.

Eth'elbert, king of Kent, succeeded to the throne a p. 560. About five years later he married Bertha, daughter of Charibert, king of Paris, a Christian princesa, who came to Britain accompanied by a Gallic bishop. Ethelbert was acknowledged Bretwalds on the fall of Ceawlin, king of Wessex, about 590. The mission of St. Augustine took place in 567, Ethelbert was baptized, and Augustine was made Archbishop of Canterbury. Christianity was soon after established among the East Saxons and in Northumbria. The code of laws which Ethelbert published in English, about 690, is the first of our writeand in Northumbria. The code of laws which Ethelbert published in English, about 600, is the first of our written laws, and the earliest in any modern language. Ethelbert died in 616, and was afterwards canonized. Eth/elbert, king of England, the second son of Ethelwolf, whose kingdom he shared with his brother Ethelbald in 858, and succeeded to the whole on Ethelbald's death in 620. He was determined by the control of the state o

bald in 838, and succeeded to the whole on Ethelbald's death in 860. He was a virtuous prince, and beloved by his subjects. D. 866.

Eth'elred I., king of England, the third son of Ethelbald's acceeded his brother Ethelbert in 866. He was a virtuous prince, beloved by his subjects, and mostly engaged in repelling the incursions of the Danes. D. 871. ETHELRED II., king of England, the son of Edgar, succeeded his brother, Edward the Martyr, in 979. His unmanly spirit submitted to pay a tribute to the Danes, by a tax levied on his subjects, called Danegelt. To tree himself from this oppression, he caused the Danes to be treacherously massacred, througheat the country, in one day. On this, Sweyn, king of Denmark, entered his kingdom, and compelled him to flee to Normar's; but Sweyn dying soon after, Ethelred returned, and, after an inglorious reign of 37 years, died 1016.

Eth'elwolf, king of England, came to the crown in Eth'elwolf, king of England, came to the crown in 837, and has rendered his reign famous for being that in which tithes were instituted. He was a mild and religious prince, and went to Rome with his youngest son alired. D. 857.

E'ther, n. [Fr. éther, from Lat. sther; Gr. aühêr. from aithê, to light up, to kindle, to burn or blaze: Sanskatapa, the heat of the sun—root, tap, to make hot.]

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(Physics.) That which is above the element of fire; the clear upper air; pure refined air; a thin, subtile matter, much finer and rarer than air, which, according to some philosophers, begins from the limits of the atmosphere, and occupies the heavenly space.

(Chem.) Ether is used as a generic term to denote a series of organic bodies having the general formula Hn+(CnHn+1)O. They are looked upon as being derived from corresponding alcohols by the abstraction of one equivalent of water; or, in other words, they are regarded as the oxide of a radical represented by the formula within the brackets, of which their alcohols are the hydrated oxides. This theory has undergone a modification of late years, the followers of Gerhardt laying it down as a principle that the equivalent of an ether when existing alone is double, and that its compounds are formed by substitution. There are strong reasons in support of this theory, as will be seen when we consider the double and compound ethers. Ethers are subdivided into —1. Simple charge, of which ordinary vinous ether may be taken as a type (C<sub>2</sub>H<sub>2</sub>OC<sub>2</sub>H<sub>3</sub>); 2, the double ethers, which consist of two equivalents of different ethers unitted, as the methyl-chiptic cher (C<sub>2</sub>H<sub>4</sub>OC<sub>4</sub>H<sub>3</sub>); and the compound ethers, which contain an equivalent of an ether united to an equivalent of an action hadgen, and correspond to salts; thus, nitric ether is C<sub>2</sub>H<sub>4</sub>ONO<sub>3</sub>; hydrochloric ether, C<sub>4</sub>H<sub>5</sub>C. From the formulas given of the double and compound ethers, it will be seen that they may be considered as double atoms of the original ether, in which one atom is replaced by another ether in one case, and by an anhydrous acid or a halogen in the other. In common parlance, ether is generally taken to mean the ordinary sulphuric ether, as it is improperly



Fig. 968.

termed from being obtained from alcohol by the action of sulphuric acid. Pure ether is an extremely limpld, coloriesa, transparent fluid, very volatile, and refracting light with great power. Its odor is peculiarly powerful and penetrating if inhaled; at first producing exhitaration, and afterwards stimulating effects, followed by insensibility to pain. As an ansethetic it is, if not so powerful, at least less dangerous than chloroform. It has a specific gravity of 0-724 at 55° F., and boils at 94.8° F. It is used for producing cold artificially by rapid evaporation. Its vapor is extremely dense, sinking heavily in air; great care should therefore be taken not to pour it out with a flame below it, otherwise an explosion of a dangerous character might ensue. Mixed with certain proportions of air, it forms a highly explosive compound. It dissolves readily in alcohol, but very sparingly in water. It is much used in medicine; but its principal commercial application is as a solvent for pyroxylin in the manufacture of collodion. In analysis it is used as a solvent for fax, is prepared from alcohol by the action of sulphuric acid at an elevated temperature. On the small scale, the apparatus which may be employed for the purpose is the retort and receiver (Fig. 908) into which a mixture of equal weights of spirits of wine, or rectified spirit and oil of vitriol, or, by volume, 2 of alcohol and 1 of sulphuric acid, are placed, and heat being cautiously applied, a liquid distils over, which consists of ether and water. In a short time, the contents of the retort applied, s applied, a liquid distils over, which consists of ether and water. In a short time, the contents of the retort begin to blacken, and the operation must be stopped, or the distillate will become contaminated with sulphurous acid. On the large scale, the process of Boulay, or the continuous process, as it is termed, is now generally in use. Equal measures of alcohol and sulphuric acid. in use. Equal measures of alcohol and sulphuric acid are heated in a capacious retort, which is connected with a reservoir of alcohol in such a manner that, as fast as the ether distils off, a corresponding amount of alcohol makes up the deficiency. The process is continued until thirty times the original amount of alcohol is used, the sulphuric acid acting over and over again as the agent by which an equivalent of water is abstracted from an equivalent of alcohol. See SECTION II.

Ether read. a. [Lat. atherius.] Formed of ether; containing or filled with ether; heavenly; celestial; relating to or existing in the sir.

Ether readlissm, Ether real'ity, n. Quality of being ethereal.

ethereal.

etheral.

Ethe'realize, r. a. To convert into ether or into a very subtile fluid; to render etheral or spiritual.

Ethe'realized, p. a. (Chem.) Converted into ether; made etheral or spiritual.

Ethe'realized, a. a. (Chem.) Converted into ether; made etheral or spiritual.

Ethe'realized, a. a. (In an etheral or heavenly manner.

Ethe'realized, n. (Zoll.) A genus of fresh-water hivalve Mollusca, living attached to shells and stones in the Nile and other rivers of Africa. The mantle lobes are free, with a large quadrate foot like that of the Uniona, and the shell is pearly and blistered internally, and covered externally with a green epidermis which is often eroded. Eth'eridge, in Georgia, a village of Jones co., abt. 17 m. W. by N. of Milledgeville.

Etherification, (cher-if-c-kai'shun,) n. [Fr.] (Chem.)

The process by which the same amount of sulphuric acid, serves continuously for the abstraction of an equivalent of water from an almost indefinite number of equivalents of alcohol, has been much discussed among chemists. Numerous researches have been made on the subject by Liebig, Mitscherlich, Graham, and others, and the general explanation arrived at, is that the sulphuric acid unites with the sloohol to form sulphethylic acid and water. The sulphethylic acid then splits up into ether, which distils over, and sulphuric acid, which again unites with the alcohol to form a second portion of sulphethylic acid, which is in its turn decomposed. The great difficulty in admitting this view arises from the circumstance that sulphethylic acid should be first formed and then immediately decomposed, under precisely similar circumstances of temperature. Mitscherlich and Graham consider that the sulphuric acid acts in a catalytic manner, simply inducing composition in other bodies by its pressure, somewhat in the manner of a ferment. — For a fuller discussion of this very interesting subject, the reader is referred to Miller's Elements of Chemistry, vol. ili., 3d edition.

Etherine, n. (Chem.) A volatile, oily hydrocarbon formed during the preparation of ether, and known as light oil of wine.

Etherize, v. a. To convert into ether; to stupefy with ether.

E'therize, v. a. To convert into ether; to stupefy with

ether.
Eth'ie, or Eth'ical, a. [Fr. éthique; Lat. ethicus; Gr.

Eth'ie, or Eth'ical, a. [Fr. éthique; Lat. ethicus; Gr. ethicus; from ethos, custom, usage, manners, habits.] Relating to manners or morals; treating of morality; delivering precepts of morality. Eth'ically, adv. According to the doctrines of morality. Eth'ica, n. sing. or pl. [Fr. éthique; Gr. ethica, from ethos.] The science which treats of the laws of voluntary action, and thus seeks to determine the nature and extent of moral duty. This branch of knowledge has been divided by modern writers into two parts, the one comprehending the theory of moral science, and the other its practical doctrines. On the former side, the first part investigates that principle of our constitution by which we are led to form the notion of moral distinctions; and its practical doctrines. On the former side, the first part investigates that principle of our constitution by which we are led to form the notion of moral distinctions; and on the latter side it inquires into the proper object of moral approbation. In other words, this science endeavors to give an answer to the question, — Is it by the same faculty that perceives the existence of truth and falsehood in other departments of knowledge, or by a peculiar power of moral perception, which is pleased with one set of qualities and displeased with another, on which the peculiar obligation of moral conduct is founded? What is the common quality or qualities, in short, belonging to all the different forms of wirtue? Its the envolvence—is it sympathy—is it a rational self-love? Thus the scope of the one question is to ascertain the origin of our moral ideas; that of the other to refer the various moral phenomena to their most simple and general laws. Again, the practical doctrines of morality comprehend the rules formed to direct human conduct, and the best means of compassing this general end. These two questions, when properly treated, seem to exhaust the entire theory of morals. Ethica, then, is a word which shall be employed in the succeeding article as altogether synonymous with moral philosophy. One (its least and latest forman avocanders observed). as altogether synonymous with moral philosophy. One of its best and latest German expounders observes:
"The best name for this science is Ethic, or doctrine of "The best name for this science is Ethic, or doctrine of morals, as is clear from the relation of this word to the three fundamental conceptions of morals — law or duty, virtue, and chief good." E., or morals, has properly to do with action rather than with thought; and hence the name of the active powers that Reid and Stuart have employed in their works to designate this field of inquiry; not that action belongs exclusively to morals and not also to the intellectual faculties; but that it belongs more obtrusively and overtly to this department than it does to the other. Action in general is two-fold: it is either instinctive and constitutional, as lunger, thirst, and the love of sex; or it is voluntary and fold: it is either instinctive and constitutional, as hunger, thirst, and the love of sex; or it is voluntary and designed, as when men pursue a course of ambition, or spend a long life in the endeavor to master some department of knowledge. Of those two lines of action, one is necessary, compulsory, and absolute while it lasts; while the other is contingent, voluntary, and relative. I may resist the strong urgings of ambition or of glory; but I cannot resist the demands of hunger. It is at the choice of Napoleon whether he leave Elba or not, although it is quite necessary that he should have his breakfast on that inauspicious morning. It thus appears, that while the one class of actions is necessary to our though it is quite necessary that he should have his breakfast on that inauspicious morning. It thus appears, that while the one class of actions is necessary to our existence, the other is by no means necessary; and many persons would be all the happier to resist those urgent longings which besiege their wills and often carry them captive. Another consequence follows from this consideration, which it is all-important to note on the present occasion — that it depends altogether on whether the will of man be consciously free, as to whether his acts can carry with them any moral responsibility. If a stone acclientally falls on my head, and materially injures me, I do not blame the stone, I simply lay the charge on my own evil fortune. If I am bitten severely by my neighbor's dog, I may pronounce the dog dangerous to the lieges, I cannot hold him guilty of assault. But if I am knocked down and robbed by a ruffian in the next lane, I shall use all my endeavor to have him brought before the magistrate, and punished; for unless he be an imbecile or a madman, he cannot set up a plea of moral incompetence, which everybody would urge in favor of the previous cases. Nor am I responsible for an act performed by me while I was under moral or physical compulsion; for by being so con-

strained, my will, my voluntary guiding power, is de-prived of its accustomed freedom, and I am no longer at liberty to act as I please. It hence appears that for all practical moral purposes, the will must be consciously free, otherwise there can be no responsibility. And not only so; the other faculties, which always go to aid the moral judgment in pronouncing its awards, must be in a normally healthy condition, otherwise no moral blame is attachable to a victous act more than to a virtuous one. Were our law courts capable of publicly recog-nizing the more delicate shades of character and of guilt that frequently come before them for judgment, and were human nature better able to appreciate the finer traits and more delicate lineaments of men's dis-positions, there can be little doubt that our civil and criminal codes would experience an entire modification of their peculiar rigor against peculiar offences and crimee often committed with but little moral cogitation, and with but little moral guilt. For how often are crimes often committed with but little moral cogitation, and with but little moral guilt. For how often are men's passions strong where their moral perception is not of the highest! And when malevolent emotions become heated, do they not blind men's minds to every other consideration but what this wicked passion points them to? Then the history of the growth and formation of human character is nearly a terra incognita, and such should always be taken into account in anything approaching a perfect code of moral, or even of criminal law. Whatever is calculated to shake or to confirm the will in its moral endeavors is calculated to shake or to approaching a perfect code of moral, or even of criminal law. Whatever is calculated to shake or to confirm the will in its moral endeavors, is calculated to shake or to confirm the comparative perfection of the moral character. With the view, accordingly, of ascertaining and of classifying the various sources of our activity, various ethical inquirers have analyzed our various propensities into nearly the following principles: 1. There are our appetites of hunger, thirst, and sex, which take their rise from the body, and which ally us with the brutes. To those natural appetites belong the acquired ones: such as the liking for tobacco and other narrotics, and for intoxicating drinks. All stimulants are of this class. 2. There are the desires, which may be conveniently distributed into the desire for knowledge (curiosity), the desire of superiority (emulation). Then there are the acquired desires, or, as Dr. Hutchinson termed them, "secondary desires:" such as the desire for wealth, for dress, for equipage, for retinue, and for furniture, which are all readily explainable on the principle of association. 3. Then there are the affections, or those active principles whose direct and ultimate object is the communication of pleasure or of pain to any of is the communication of pleasure or of pain to any of our fellow-creatures. These are distinguished, according to their tendency, into benevolent and malevolent affecto their tendency, into benevolent and malevolent affections. To the former class belong the perental and the filial emotions — those of kindred, love, friendship, patriotism, universal benevolence, pity, gratitude, &c. It is to be remarked, regarding those affections, that this classification is simply offered from its convenience, not from its being exhaustive. There is one peculiarity observable with respect to these emotions, that, accompanied as they all are with exquisite pleasure, they have, nevertheless, nothing selfish in their origin. This has been fully demonstrated by many writers. It is a remark of Bishop Butler, that the final cause of so much agreeable emotion connected with the exercise of benevolence is, in all likelihood, meant to induce us to cultivate with of Bishop Butler, that the final cause of so much agreeable emotion connected with the exercise of benevolence is, in all likelihood, meant to induce us to cultivate with peculiar care a class of our active principles so immediately subservient to the happiness of human society. Our malevolent passions, or affections, are usually distributed into hatred, jealousy, envy, revenge, and some kinds of resentment. As the former class of affections are always accompanied with pleasant emotions, so the malevolent ones are invariably attended by disagreeable ones. It is obvious from this, that the litter are only to be used with a great degree of caution, and on no occasion in greater intensity than the urgent necessities of the case demand. They are like those poisonous curse that are sometimes administered to us to restore our frames to their accustomed health. If the prescribed dose be overstepped, the chances are that we must atone for our rashness with our lives. Such would be the constitution of man, were no inheritance of reason or of conscience to fall to his share. Reason, however, renders the nature of man altogether different from what it would otherwise be. It is by this faculty, in its multifarious forms, that man is capable of availing himself fully of his past experience in avoiding those temporary pleasures that he knows will be succeeded by a corresponding suffering, and in submitting to those lesser ills of life which he knows will ultimately minister to a greater accession of good. In a word, he can form that more enlarged and liberal idea of happiness with which every cultivated man is acquainted, and he can deliberate about the best means of attaining to this wished for goal. It is impossible to pronounce the word happiness in the hearing of any man without at the sum time enkindling in his mind various ideas, more or less attainable, of an exceedingly desirable object. 4. Self-love, accordingly, or that species of desire which longs for personal happiness as an end in itself, is a rational principl

of virtue, and they thought they had accomplished the duties of sages when they had laid down rules, of more or less particularity, for the attainment of this "supreme or "the sages when the same of "the same of " or less particularity, for the attainment of this "supreme good," this rumsuam bonum. Nor is it to be wondered at, that they placed the whole of virtue in this prudential self-regard; for the two principles — that of self-interest and of the moral faculty — lead to nearly the same course of action in practical life. That the principles are not identical — on the contrary are radically and abidingly distinct, may be established from a variety of considerations. It is from experience that we learn the connection of virtue and happiness; and hence virtue, the cause, must certainly precede the existence of self-love, as the effect. In all languages, the words employed to denote the ideas of duty and interest are distinct. The to kalon and the kathokon of the Greeks, and the honestom and atile of the Latins, express exactly what we mean when we speak of duty and of interest. A similar conclusion likewise fluds countenance in the early period at which our moral judgments make their appearance, it being always a considerable while before it is possible that we should be capable of forming the general notion of our own happiness. To escape the it is possible that we should be capable of forming the general notion of our own happiness. To escape the force of some of the foregoing arguments, it has been alleged that this notion of right and wrong, as a separate existence in human nature, was first of all discovered by philosophers and politicians, and the influence of education has effected the rest on the growing mind of the race. Now education is no doubt a powerful instrument; but there is no example on record that can be pointed out to illustrate the case of a new creation bening implauted in men's minds by means of this potent organ of culture. No doubt sufficient allowance must be made for the different circumstances of mankind in different periods of society, and for the diversity of be made for the different circumstances or marking in different periods of society, and for the diversity of their speculative opinions, as well as for the different moral significance of the same action, performed under different systems of external behavior. But while edu-cation may, and does, in this way modify in important respects the moral sentiments of mankind, as well as respects the moral sentiments of mankind, as well as their opinions re\_arding the beautiful and the sublime, we would be far from maintaining that it can effect such wonders as to create our notions of right and wrong, or our sethetical ideas.—The science of E. gives rise to an infinite number of inquiries, the principal of which are considered under Brautt, Conscience, Freedom, Nz. ESS.TT, REVELATION, VISTUE, &c. See also the heads of the several systems of philosophy.

Ethion ie Acid, n. [Gr. aither, air, and theion, sulphur.] (Chem.) It may be viewed as the bisulphate of the diatomic radical ethylene. It is ethylene united with two equivalents of water, and four of sulphuric acid.

Ethionis, (c-the-ope-a.) [Gr. aitho-ope, sunburnt.] (Anc.

phur.] (Chem.) It may be viewed as the bisulphate of the diatomic radical ethylene. It is ethylene united with two equivalents of water, and four of sulphuric acid.

Ethiopia, (chem-or-a.) (Gr. aithò-öps, sunburnt.] (Arac. Geog.) Originally, all men of dark-brown or black color were called Ethiopians. Later, this name was given more particularly to the inhabitants of the countries south of Libya and Egypt, or the Upper Nile, extending from 10 to 25° N. Lat., and 45° to 50° E. Lon., i. e. the Cush or Kush of the Bible, and the present Nubia, Sennair, Kordofan, Abyssinia. The accounts which the ancients have left us with respect to this people are, even where they are not of an entirely fabulous nature, extremely scanty and untrastworthy, as both Greeks and Romans never got beyond Napata, 19° N. Lat. We will just mention that from the Homeric age down to Ptolemy—who is somewhat better informed—these regions were peopled by Pygmies, Troglodytes (dwellers in caverns), Blemmyes (hideous men), Macrobii (long-lived men), &c., besides being divided into the lands of cinnamon, myrrh, of elephant-eaters, fish-eaters, tortoise-eaters, eerpent-eaters, &c. The only portion of ancient records which does contain something akin to historical accounts, is that which refers to Meroë, an island formed by the rivers Astaphus and Astaboras, tributaries of the Nile.—See Abvssinia, Mazog, and Nusia.

Ethiop'ie, a. Relating to Ethiopia.

—n. A native of Ethiopia.

—n. The language of Ethiopia.

—n. The language of Ethiopia.

—n. Has.

Ethiop's Mimeral, n. (Chem.) Subsulphide of mercury. It is obtained as a black powder by transmitting a current of sulphuretted hydrogen through a solution of a mercurial subsait, or by triturating 18 parts of moist sulphur with 200 of mercury. Form. H.S.

Eth'modd, Ethmodd'sl. a. [From Gr. ethmos, a sieve, and etdas. form.] Pertaining to the ethmodd bone.

Eth'modd Bone, n. (Anat.) One of the bones of the head, which is exceedingly soft and spongy, consisting of many convoluted plates, which form a netw

head, which is exceedingly soft and spongy, consisting of many convoluted plates, which form a network like a honeycomb. It is somewhat cubical in form, and is situated between the two orbitary processes of the frontal ione, at the root of the nose. The olfactory nerves shoot down through the numerous small perforations of this bone into the organs of smell.

Eth'mics, Eth'micsal, a. [Lat. chnicus; Gr. chnikos, from chnos, a nation or people.] Relating to a nation or people; relating to the races or classes of mankind.—Heathen; pagan, (opposed to Jewish or Christian.)

Ethnog'rapher, n. [Gr. cthnos, a nation, and grapho, to describe.] One who is versed in ethnography.
Ethnograph'ic, or ETHNOGRAPHICAL, a. Relating to

ethnography, n. [Gr. ethnos, a nation or a class of people, and graphō, to describe.] A description of the different races of men, their manners, customs, institutions, and languages, or a work on that subject. Ethnolog'ie, or ETHNOLOGICAL, a. Relating to eth

nology Ethnol'ogist, n. One who is versed in ethnology. Ethnol'ogy, n. [Gr. ethnos, a nation, and logos, a dis-

course.] That branch of science which treats of the different races of men, their distinguishing characteristics, their origin, migrations, and settlements, and their rela-

ETNA

ferent races of men, their distinguishing characteristics, their origin, migrations, and settlements, and their relation to each other in regard to civilization, numbers, and powers. References: Agassis, Types of Mankind; Dr. Latham, Descriptive Ethnology.

Etholog'se, or Eviological, a. Treating of morality.

Etholog'se, or Eviological, a. Treating of morality.

Etholog'se, or Eviological, a. Treating of morality.

Ethyl, Ethology, n. (Gr. ethos or ethos, custom, usage, and logos, a discourse.) A treatise on ethics; the science of ethics; a treatise on morality.

Ethyl, Eth'ule, n. (Gr. aither, air, and sile, the material of which a thing is made.) (Chem.) The second and most important member of the series of alcohol radicals. When a mixture of granulated zinc and iodide of ethyl is heated to a temperature of 300° in a tube from which the air has been exhausted, a number of compounds are formed, ethyl, the radical in question, amongst them. By breaking the tube under water, the liquid compounds are ejected in a gaseous form; and by carefully collecting the portions which come off last, the ethyl is obtained nearly in a state of purity. Ethyl is a colorless gas with slightly ethereal smell, and burns with a luminous flame. It may be liquefied at 38° Fahr. by a pressure of 2½ atmospheres. Frankland estimates its boiling-point at—9°. It is the radical of ether and alcohol, and as such deserves especial notice. It dissolves readily in alcohol, but not in water. Form. (Cg.41s).

Eth'yleme, or OLEFIAN GAS, N. (Chem.) The second hydrocartion in the olefiant gas series. Form. Cg.41s.

These hydrocarbons are described under the head of OLEFIAN GAS.

Eth'Pleme-di'amaine, n. (Chem.) See Diamine.

OLETANY GAS.

Eth'ylene-di'ammine, n. (Chem.) See Diamne.

Etienme, St., (a'te-n.) an important manufacturing town of France, cap. of dep. Loire, 32 m. S.S.W. of Lyons, and about 288 m. S.S.W. of Lyons, and about 288 m. S.S.W. of Lyons, and about 288 m. S.S.W. of Lyons, seated upon coal-deposits, and has galleries driven even beneath its streets. The stream on which the town is built furnishes invaluable water-power to move its machinery, and its waters are also of great use for tempering fron and steel. The most notworthy building is the Hötel-de-Ville, which contains the Muscle Industriel, with specimens of the manufactures of the town, and of the minerals and fossils of the neighborhood. St. E. is famous for its manufactures of ribbons and fire-arms. The ribbon-manufactories contain 30,000 looms, and the is famous or its manufactures of ribbons and fire-arms. The ribbon-manufactories contain 30,000 looms, and the annual value of their produce is estimated at 60,000,000 francs (\$12,500,000) in value. They are univalled in elegance of design, and in richness and delicacy of color, and are exported to all parts of the world. There are extensive private manufactories of fire-arms, besides an imperial fire-arms manufactory, which supplies most of the muskets of the French army. St. E. has also extensive manufactures of bayonets, scythes, nails, sawblades, foils, anvils, vices, files, and also of silks, velvets, lace, embrodery, muslins, glazs, leather, and paper. From the coal-fields on which St. E. is situated, about 600,000 tons are raised annually. Phys. 121,744.

E'tiolate, v. s. To become white; to become whitened or bleached.

or bleached.

\*\*Etiolar'tion\*\*, n. (Bot.) That condition of a plant in which all the green color is absent. Such a state is produced by want of light. When it is artificially obtained by keeping plants in the dark in order to insure their being more tender and insipid than is natural to them,

by keeping plants in the dark in order to insure their being more tender and insipid than is natural to them it is called bianching, as in the case of celery. Etiolated parts become green by exposure to light.

(Med.) This term is sometimes used in Puthology to denote the paleness produced in those persons who have been kept long without light, or a similar paleness resulting from a chronic disease.

Etiolog'ical, a. Pertaining to stiology or etiology.

Etiology, n. See Extodor.

Etiquette, (d-c-ket',)n. [Fr., a ticket, ceremony.] The forms of manners and behavior that prevail in polite society, established by usage and good breeding. The name is probably derived from the custom that prevailed, on state occasions, of delivering a ticket to each person, instructing him as to the part which he was to take in the ceremony. At no time, probably, was the spirit of E. so predominant and so tyrannical as at the court of Louis XIV. of France. At the present day, the E. of European courts is becoming less and less strict; and in private society, many of the old and absurd forms are given up. "E.," says a writer on this subject, "is the barrier which society draws around itself as a protection against offences the law cannot touci; it is a shield against the intrusion of the impertinent, the improper, and the valence around touch; it is a shield against the intrusion of the impertinent, the improper,

an infinite number of aromatic plants; the upper is extrely destitute of vegetation, and the summit is always covered with ice and snow, except here and there, where it is overspread with a thick layer of black ashes. The first eruption of E. on record is that mentioned by Diodorus Skulus, without fixing the period when it happened; but the second, recorded by Thucydides, was in the year 734 s. c. From this period to the year 1447 there were 18 more eruptions. After this it ceased to



Fig. 969. - DISTANT VIEW OF STNA.

emit fire nearly 90 years; when, in 1536, another took place. Others followed in 1554, 1567, 1603, 1669, 1682 and 1603, which last was very terrible, and attended with an earthquake that overturned the town of Catania. Smaller eruptions afterward happened in 1755, 1763, 1764, 1766, 1780, and 1787. From the great crater at the top issues continually a sulphureous smoke; but eruptions from it are very rare, as before rising to that height, the lava breaks out at some fissure where it finds the least opposition. Besides the fruita which are the finest in the island, and the wood for fuel which are the finest in the island, and the wood for fuel which are the finest in the island, and the wood for fuel which are the finest in the same. This is an indispensable necessity in Sicily and the S. part of Naples, and is in great request. An eruption of E took place in 1879, attended with considerable loss of life and destruction to property. An astronomical observatory was erected near the summit of E in 1832, and is the most elevated inhabited building in Burope. The view from this building is of vast extent and grandeur. See Rodwell's E. (Lond. 1879). Et'mas, in Ill., a P. O. of Colee co.—In Ind. a v. of Huntingdon co., abt. 90 m. N.E. of Indianapolis.—A towaship of Kosciusko co.—In Nosa, a township of Hardin co.—In Maine, a p.-v. and twp. of Penobecot co., abt. 30 m. N.E. of Augusta.—In Mon. a. p.-v. of Fillmore co., abt. 15 m. W.S.W. of Preston.—In Mo. a. p.-v. of Sootland co., abt. 35 m. W. of Keckuk, Iowa.—In N. Y., a. p.-v. of Tompkins co., on Fall Creek, abt. 160 m. W. by 3. of Albany.—In Ohio, a. p.-v. and twp. of Licking co., abt. 18 m. E. of Columbus.

Etmas, in New Hompshire, a post-office of Grafton co.
Etmas, in New Hompshire, a post-office of Grafton co., of Dallas. and 1693, which last was very terrible, and attended with an earthquake that overturned the town of Cata-

Etma, in Oregon, a village of Polk co., about 8 m. N.R. of Dallas.

Etma, in Penna., a post-borough of Allegheny co., on Allegheny river, 4 m. above Pittaburg. Pop. 4,000.

Etma, in Wisconsin, a post-village of Lafayette co., abt. 15 m. 8.W. of Darlington.

Et'ma Centre, in Maine, a P. O. of Penobecot co.

Et'ma Greem, in Indiana, a P. O. of Kosciusko co.

Et'ma Milla, in Culifornia, a post-village of Siskiyou co., about 30 m. 8. of Yreka.

Etme'an, a. (Geog.) Pertaining to Etna.

E'tom, a town of England, in Buckinghamshire, on the Thames, opposite Windsor, with which it is connected by a bridge, and within a short distance of the Windsor Station of the Great Western Railway. It is chiefly celebrated for containing a royal seminary of education, called Elon College, founded by King Henry VI. in 1446. The average number of "boya" resident here, is about 600, and they are principally composed of the sons of the aristocratic and wealthy. Pop. 4,300.

Etourderie, &-Gra'c', n. [Fr.] Heedlessness; thought-lessness; ight-headedness.

Et'owah, or Hightower, in Georgia, a small river, rising in Lumpkin co., and flowing W. by S. joins the Oostensula at Rome, to form the Coosa. Gold has been found along its shores.

are given up. "E." says a writer on this subject, "is the barrier which society draws around itself as a protect ion against offences the law cannot touch; it is a shield against the intrusion of the impertinent, the improper, and the vulgar; a guard against those obtuse persons who, having neither talent nor delicacy, would be continually thrusting themselves into the society of men to whom their presence might (from the difference of feeling and habit) be offensive and even insupportable." The rules that are laid down on this subject are various, and are to be properly learned only by experience. Generally, however, a person going into society should main a certain degree of self-respect, and regard for the feelings of others, and should endeavor to make himself agreeable.

Et ma, or Act ma, n. A volcanic mountain of Sicily, on the E. coast of the island, and about 10 m. from Catania. Circumference at its base, 63 m. Height, 10,784 feet above the level of the sea. This is one of the most celebrated mountains in Europe, and is divided by the Sicilians into three parts or regions: the lawa or lower, the wooded or middle, and the upper. The lower contains vineyards, corn-fields, and pastures, and many towns, villages, and convents; the middle is crowded with forests of oak, chestnut, ash, fir, and plue, and with

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Pop. 6,047.

Et'tern, in Pennsylvania, the P. O. name of the borough

of Goldsborough, in York co.

Ettlingen, a town of Baden, 5 m. from Carlsruhe.

Manuf. Paper, cotton goods, and gunpowder. Pop. 5,800.

Ettriek, a river of Scotland, in Selkirkshire, joins the

Tweed near Melrose.

Tweed near McIrose.

Et'srielk, in Wisconsin, a post-township of Trempealeau co., abt. 8 m. N.E. of Galesville.

Et'sy, William, an English painter, s. at York, 1787. His Judith and Joan of Arc, each a series of three large pictures, are reputed his best compositions. D. 1850.

Etude, s. [Fr.] A composition in music, or in the fine art, which is intended, or may serve, for a study.

Etail, (d-twi, s. [Fr.] A case for tweezers and such instruments.

struments.

Etyme, a. An etymon. (a.)

Etymelog'ie, or Ertmoloo'ical. a. [Fr. élymologique.]

Pertaining to etymology, or the derivation of words, according to or by means of etymology.

Etymelog'ie.ou, n. A treatise on etymology.

Etymelogist. n. [Fr. élymologist.] One versed in etymology: one who searches into the origin of words.

Etymel'ogise, v. a. and n. To search into the origin of words: to give the etymology of a word.

Etymel'ogy, n. [Gr. élymol, from élos, true, real, ganuine, probably from eins, to be; élymon, the true literal sense of a word according to its derivation, the derivation of a word from its root, and logos, account.]

That part of grammar which treats of words by themselves, or their classification, their formation, and the alteration of their forms by derivation and inflection. It selves, or their classification, their formation, and the alteration of their forms by derivation and inflection. It teaches the deduction of one word from another, and the various modifications by which the sense of the same word is diversified. The recent philological researches have given to this department of grammar a much more extensive and important field of inquiry, by bringing together whole groups of languages, and showing the connection existing between them in word and form.

Etymon, n. [Gr. and Lat. etymon, pl. etymon.] An original; a root, or primitive word.

Em. [Gr. &] A prefix signifying well, easy, good.

Em. [Gr. 43.] A prefix signifying well, easy, good.
Em. (a) a town of France, dep. Seine Inférieure, 18 m.
from Dieppe. It is remarkable for its château. The
forest of En extends for a considerable way on the E. and 8. sides of the town.

Em. (00.) a town of France, dep. Seine Inférieure, 18 m. from Dieppe. It is remarkable for its château. The forest of Eu extends for a considerable way on the E and S. sides of the town.

Ewbamks, in Georgia, a post-village of Columbia co., about 80 m. N.E. by E. of Milledgeville.

Embera, (s-be'a.) [Anc. Euboia; Turkish, Egripo; It. Negropoia.] The largest island in the Ægean Sea, formerly called Negropont; Lat. between 37° 57' and 39° 2 N., Lon. between 22° 40' and 24' 40' E. It is bounded on the N. by the Trikeri Channel, and on the W. by those of Talanta and Egripo. It extends in a direction parallel to the mainland; and is 105 m. long by 30 m. in extreme breadth, although in one part its breadth is exarcely four miles. At the narrowest part it is connected with the mainland by a bridge. The island is intersected by a chain of mountains, running N.W. and S.E., and attaining in the centre, in the range of Mount Delphi, an elevation of about 4,500 feet. Copper and other metals are obtained in the island, which also contains numerous hot springs. The pastures are excellent, and the declivities of the mountains covered with forests of fir-trees. The climate is salutrious, the valleys well watered and very fertile, but little cultivated. The chief products are cotton, oil, wine, wheat, fruit, and honey. The inhabitants are chiefly engaged in the breeding of cattle. The chief town is Chalcis, (g.c.) E was peopled in the early historic times chiefly by Jonic Greeks, and afterwards by colonists from Athens, who formed a number of independent cities or states. After the Persian wars, E was subjugated by the Athenian, under whose rule it continued till they, in their turn, were subdued by Phillip of Macedon. By the Romans it was finally united with the province of Achala under Vepasian. In 1204 it came into the possession of the Venetians, and received the name of Negroponte. In the year 1470, the island was taken by the Turks, in whose hands it remained till 1821, when the inhabitants rose to vindicate their indepen

ing of thanks.] In a theological sense, the Lord's Supper. The term is not found in the New Testament; but in the history of the institution of this ordinance the word sucharistass occurs; and this probably led Justin Martyr and others to adopt the word,—gratitude for divine mercy and grace being a chief requisite in those who would worthily partake. During the first three centuries the E. was celebrated every Sunday; but afterwards it came to be administered only three times in the year,—at Easter, Whitsuntide, and Christmas. In early times, the E. was celebrated in the churches with the year,—at Easter, Whitsuntide, and Christmas. In early times, the E. was celebrated in the churches with closed doors, to the exclusion of all but the initiated, and it ordinarily took place at night. The use of tapers on the occasion is traced to these nocturnal celebrations. The mixing of water with the wine was generally regarded by the early Church as essential to the due performance of the rite; and hence the three elements of bread, wine, and water are mentioned. At first the communion bread was that in common use; but about the nunion bread was that in common use; but about the 7th century a peculiar kind of bread began to be prepared exclusively for it, of a circular form, and impressed with the sign of the cross. The communion in both kinds, i. e. the bread and the cup, to both laity and clergy, appears to have prevailed in the Church until about the 12th century, when the cup began to be gradually withdrawn from the laity, which was authorized by the Council of Constance in 1415, and confirmed by that of Trent in 1562. The Roman Catholic Church profess to believe that Christ's whole and entire body, soul, and or trent in 1992. The koman Catholic Church profess to believe that Christ's whole and entire body, soul, and divinity, are contained in either species and in the smallest particle of each. Hence they infer, that, whether the communicant receives only the bread or the wine, he enjoys the full benefit of the sacrament. In the early Church, communicants appear to have received the scrament standing.

SECTION STANDING.

Eucharis'tie, or Eucharis'tical, a. [Fr. eucharistique.] (Eccl.) Containing expressions of thanks; pertaining to the Lord's Supper.

Euchee (or Uchre) Creek, in Alabama, enters the Chattahoochee River from Russell county, near Fort Mitchell.

Euchirus, n.; pl. Euchirus, n.; pl. Euchirus, (Zoöl.) The Longhanded beetle, a genus and family of lamellicorn coleoptera, the longest known species of which (E. longispecies of which (E. longi-manus) is represented in Fig. 970. It is of a rich reddish-brown color, and is found in the East Indies, where it seems to be by no means common. Euchlo'rie, a. That has a distinct green color. Eu'chlorine, n. (Chem.) An oxide of chlorine.

An oxide of chlorine.

Euchol o'gi o m, E mchol'ogy, s. [From Gr.
cuche, prayer, and logos,
discourse.] A formular,
of prayers; a missal or bre-

viary.

Euchre, (yw'ker.) n. A game of cards introduced into this country from Germany, and a favorite play in many of the States. It is usually played by 20 r 4 persons, with a pack from which all the eards from 2 to 6 inclusive have been withdrawn. Refore commencing the carms, the players

persons, with a pack from 2 to 6 inclusive have been withdrawn. Before commencing the game, the players draw in rotation for the deal, which belongs to him who first draws a knave. The pack having been cut by his opponent, or, if in 4-handed E, by his right-hand adversary, the dealer distributes 5 cards to each player, including himself, commencing at his left, and turns up the 11th card (in-4 handed E the 21st). The cards have the same relative value as in Whist, except that the knave of trumps, called the right bower, is the highest card in the pack, and the other knave of the same color, called the left bower, the next highest, so that if the knave of spades be the right bower, the knave of clubs is the left, after which come ace, king, &c. Players must in all cases follow suit, and the left bower is invariably to be considered trumps. The game consists of 5 points. The deal having been completed, the elder hand has the privilege of deciding whether the suit turned up shall be trumps. If he desires to retain it as such, he "orders up" the trump-card, in which case the dealer rejects a card from his hand and assumes that which he has turned up. In that case, however, the elder hand must take 3 tricks, constituting a point, or he is, technically speaking "envired" it is his advance are relected a constituting a point, or he is, technically speaking "envired" it is his advance are relected. card from his hand and assumes that which he has turned up. In that case, however, the elder hand must take 3 ricks, constituting a point, or he is, technically speaking, "euchred," that is, his adversary is entitled to score 2 points. If, on the other hand, he does not choose to order up the card, he says, "I pasa," and the same privilege, with similar conditions, belong to the next player, and so on. When all the players, including the dealer, have "passed," the latter turns down the card, and the elder hand has the privilege of designating the suit which shall be trumps, which must, however, be another than that previously turned up. If he names a trump, he must score his point or be euchred; and if he is unwilling to take the risk, he "passes" again. When all the players have passed for the second time, they throw up their cards, and the elder hand succeeds to the deal. A player taking all 5 tricks makes what is called a "march," and is entitled to score 2; taking either 3 or 4 tricks, he scores but 1. In 4-handed E, in which the players sitting opposite to each other are partners, as in Whist, a player having good cards will sometimes desire

to "play the hand alone," without the assistance of his partner. If under these circumstances he makes a march, he scores 4 points; but if euchred, his adversaries score 4.

EUDI

1115

En'chroite. n (Min.) An arseniate of copper, of a

Ewchroite, n. (Min.) An arseniate of copper, of a beautiful, emerald green color.

Euchymny, (yū'ke-me.) n. [From Gr. eu. well, and chymos, juice.] (Med.) A good state of the humerus.

Ewclame, n. [Gr. eu. well, and klao, to break.] (Min.) A silicate of alumina and giucina, occurring in oblique rhombic prisms of a pale-green color, a vitreous lustre, and transparent. Hardness 7:5; gravity 3:1; composition: silica 41:1, alumina 36:3, glucina 17:4, water 6:2. It receives a fine polish, but is too brittle to be cut for jewelry. Found in Peru, and with topax in Brazil.

Ewclid. (wkikid.) Of Megare, an eminent Greek philoso-

jeweiry. Found in l'eru, and with topas in Brazil.

Euclid, (u'kiid,) of Megare, an eminent Greek philosopher, was one of the earliest disciples of Socrates.

After the death of his master he established a school of his own, which received the name of the Megaric School. His death took place about 424 B. o. The basis of his system was the kleatic dogma of a one, only, universal substance or existence. Blending with this the Socratic idea of the predominance of the moral element, E. held this one real existence to be the good, though it receives various names under its special manifestations.

Euclid, a celebrated mathematician, sometimes called the Father of Mathematics, B. at Alexandria about 300 B. c. We know little more of his history than that he belonged to the Platonic school of philosophy, and taught mathematics in the famous school of Alexandria, during the reign of Ptolemy Soter. Though he did not create the science of mathematics, as is sometimes represented, he made prodigious advances, especially by

presented, he made prodigious advances, especially by his rigorous method and arrangement. In this respect he has, perhaps, never been excelled, and his Elements

of Geometry continue to the present day to hold their place as a text-book of that science.

Eur'eli'd, in New Fork, a post-village of Onondaga co., abt. 11 m. N. by W. of Syracuse.

Euclid, in Ohio, a post-village and township of Cuyahoga county, on Lake Erie, about 10 m. N.E. of Cieve-

land.

Eu'colite, n. (Min.) Same as EUDIALTE, q. v.

Eu'crasy, n. [From Gr. eu, well, and krasis, temperature.] (Mel.) A well-proportioned mixture of qualities, by which a body is said to be in good order, and disposed for a good state of health.

Eudiar'smon isum, Eudlemon isum, n. [From Gr. eudaimon, having a good genius.] A system of moral philosophy which makes morality to depend on the production of happiness.

Eudl'allyte, n. [Gr. eudialitos, easily dissolved.] (Min.) A silicate of zircomis, lime, sodm, and fron. Found in West Greenland in rhombohedral crystals of a vitrous lustre, red color, and translucent to sub-translucent. Hardness 5.5; gravity 2.898 to 3.01. It gelatinizes in muriatic acid, and fuses in the blowpipe flame to a light green opaque glass.

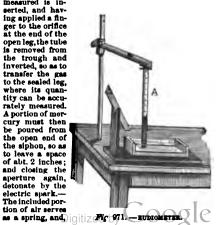
multratic acid, and tuses in the blowpipe name to a light green opeque glass.

Eudiom'eter, n. [See Eudiometry.] A term applied to instruments used for the analysis of atmospheric air and other gases.—See Eudiometry. Eudiomet'ric, Eudiomet'rical, a. Belating to

eudiometry.

eudiometry. Eudiométrie, from Gr. cu, well, dios, air, metron, measure.] The art of analyzing and investigating gaseous bodies by means of the instrument called the eudiometer. If, for instance, it be desired to estimate the amount of oxygen in the air, to three measures of atmospheric air contained in the eudiometer. A. Elig CTI add two measures of pure hydrogen. measures of atmospheric air contained in the endiometer (A, Fig. 971) add two measures of pure hydrogen,—detonate, and, upon the cooling of the vessel, observe the absorption; divide its amount by 3, and the quotient will represent the amount of oxygen. This method was invented by Volta. The best form of endiometer is that invented by Dr. Ure. It consists of a siphon formed that invented by Dr. Ure. It consists of a siphon formed of glass, with legs of nearly equal length, open at one extremity, which is funnel-shaped, and hermetically sealed at the other, which is supplied with platinum detonating wires. The siphon leg, which is sealed up, is graduated into 100 equal parts or subdivisions of the cubic inch. In order to make use of this simple instrument, it must be filled with mercury and inverted in the pneumatic trough; a convenient supply of the gas to be measured is in-

serted, and hav-ing applied a fin-ger to the orifice at the end of the open leg, the tube is removed from the trough and inverted, so as to transfer the gas to the sealed leg, where its quantity can be accurately measured.
A portion of mercury must then be poured from the open end of the siphon, so as to leave a space of abt. 2 inches; and closing the aperture again, detonate by the electric spark.— The included por-tion of all serves





on withdrawing the thumb, which closed the open aperture, and adding mercury to restore the level, the change of bulk produced in the gas by detonation can easily be read off. Any liquid or solid that is required for the analysis of the residuary gas may then be passed up into the closed end, and the different results noted. The endlometer employed by Cavendish for the synthesis of water consists of a strong glass vessel, a firmly secured stopper at one end, a brass stop-cock at the other, and provided with two platinum wires which pass through the stopper, and approach very near to each other within the endlometer, so that the electric spark may easily pass between them. The endiometer may be exhausted by screwing the stop-cock into the plate of an air-pump. It is then filled with a mixture of two measures of hydrogen with one of oxygen, which

may be exhausted by screwing the stop-cock into the plate of an air-pump. It is then filled with a mixture of two measures of hydrogen with one of oxygen, which is exploded by the electric spark. The water formed by the union of the gases condenses into fine drops of dew on the inside of the vessel.

End'nephite, s. (Min.) A silicate of alumina and sods, which occurs commonly in cleavable masses of a white, grayish, or brownish color. Hardness 5-5, gravity 2-27. Gelatinizes with acid, and fuses to a colorless glass. Found on the island Lamoë, Norway.

Eudocia, or Athemals, (wdo'shi-a,) a learned Athenian lady, daughter of Leontius, the philosophical sophist, who left her only a small legacy, bequeathing the rest of his property to his two sons. Conceiving herself ill-used, E. went to Constantinople to lay her complaint before the emperor, Thoodosius II. She there embraced the Christian religion, and, under the name of Eudocia, became empress in a. D. 421. She was afterwards divorced, and retired to Jerusalem, where she led a life of devotion, and D. 480. She is said to have switten sown Greek norms and also a life of where she led a life of devotion, and p. 460. She is said to have written some Greek poems, and also a life of Christ.

Eudokeef, or Foo'or Islands, in Alaska, a group of small islands off the S.E. coast of the peninsula.
Eudo'ra, in Kansus, a post-village and township of Doubles.

Eudo Fa., in Aansas, a post-vinage and township of Douglas co.

Eudo xus, (u-dox'us,) a distinguished Greek mathematician and astronomer, who probably lived from 408 to 350 s.C. He became a disciple of Plate and Archytas, is reported to have visited Egypt and received astronomical instruction from the priests, and to have also visited Mausolus, king of Caris, for whom the celebrated mausolum was built, and Dionysius the Younger, of Syracuse. He chiefly fived at Cyzicus. Plato referred the Delians to E. for a solution of a difficult mathematical problem, as more competent than himself. E. had an observatory at Cnidos, and was an enthuskastic student of the heavens. at Chidos, and was an enthushastic student of the heavens, of which he wrote a comprehensive description in his two works now lost, the Mirror and the Phenomena. The latter was versified by Aratus, whose poem, translated into Latin verse, was in use till the 6th century of our zera. Endoxus was the first Greek astronomer who attempted to form a theory of the planetary motions, and his theory was substantially identical with the Ptol-

and his theory was substantially identical with the l'toiennaic system.

Emergetes, n. [Gr., a benefactor.] (Anc. Hist.) A title
of honor frequently bestowed by the Greeks on those
who had served the state well, and given more especially
to some of the Egyptian Ptolemies. Reference is made
to this practice in St. Luke xxii. 25.

Eminu'la, in Alabama, a thriving manuf. city, the cap.
of Barbour co., on the Chattahoochee river, 80 miles
E.S. E. of Montgomery. Pop. (1897) about 4,800.

Engème, François, (oo'shain.) Prince of Savoy Carignan,
known as Prince Eugène, was the son of the Count of
Soissons, by the niece of Cardinal Mazarin, and was B.
at Paris, 1663. He was intended for the church; but
his predilection for a military life was so strong, that on
being refused a regiment in the French army, he entered
the service of the emperor, as a volunteer against the
Turks; where his bravery attracting notice, he was soon
appointed to the command of a regiment of dragoons.
He was afterwards placed at the head of the army of
Hungary; and so highly did Louis XIV. think of his
abilities, that he offered him a marshal's staff, a pension,
and the govt. of Champagne; but these he indignantly
refused. He was the companion in arms of the great
duke of Mariborough, and participated in the victories
of Blenheim, Oudenarde, &c. He likewise saved Turin,
expelled the French from Italy, reduced Lisle, and, in
short, raised his name to the very pinnacle of military
renown by repeated demonstrations of skill and bravery.
He routed the Turks at Peterwardein in 1716, and compelled Belgrade to surrender, after inflicting on them
another ruinous defeat. After the peace in 1718 he re-He routed the Turks at Peterwardein in 1716, and com-pelled Belgrade to surrender, after inflicting on them another ruinous defeat. After the peace in 1718 he re-tired to private life, and spent his time in cultivating and patronizing the arts, till he was again, in 1733, called into the field as commander on the Rhine: this service, however, was unproductive of any remarkable action. He D., aged 72, in 1736; and, independently of his mili-tary renown, he left behind him a character in private life worthy of imitation.

life worthy of imitation.

Eugene', in Indiana, a post-township of Vermillion co, on Big Vermillion river, about 80 miles W. by N. of Indianapolis. A fine farming and grazing region.

Eugene, in Iona, a former P. O. of Ringgold co.

Eugene, in One, a post-office of Knox co.

Eugene, in Oreyon, a thriving town, cap of Lane co, on Williamette river, and N. Pac. R. R., 45 miles S. of Albany; seat of University of Oregon. Has extensive manufactures. Pop. (1887) about 4,500.

Eugenglams, n. (Min.) Same as Polybastra, 6; v.

Eugenglams, n. (Min.) Same as Polybastra, 6; v.

Eugendlams, n. (In honor of Prince Eugène, of Savoy.)

(Bot.) A gen. of plants, ord. Myrlacez. They are trees and shrubs, with opposite, entire leaves, axillary white flowers, and black or red berries. E. pimenta is the most important species. Its dried unripe fruit consti-

tutes pimento or Jamaica pepper, commonly known as alispice. The latter name is given to it because it is thought to have combined the flavors of cinnamon, clove, thought to have combined the havors of chinamon, clove, and nutmeg. It is used as a spice, and in medicine as an aromatic stimulant. Its properties are dependent on the presence of a volatile oil. The rose-apples of the East, which are much esteemed as dessert fruits, are the produce of E. malaccensis, E. aque, E. jambos, and other species of this genus. In Brazil, the fruit of E. cautifura. nd Jabuticaba, is also much esteemed. The leaves of E. ugmi are used in Chili as a substitute for Paraguay The leaves of

EURC'Mic-Marie de Gumman, Countess of Tisa, EMPRESS OF THE FRENCH, B. 1826, is the daughter of Donna Marie Manuela Kirkpatrick of Closeburn, coun-tess-dowager of Montijo, connected by her husband, the Count de Montijo, with the houses of the dukes of Frias tess-dowager of Montijo, connected by her husband, the Count de Montijo, with the houses of the dukes of Frias and Fyara, and others of the highest rank, including the descendants of the kings of Aragon. In 1851, the Countess Téba, accompanied by her mother, paid a lengthened visit to Paris, and was distinguished at the various entertainments given at the Tulleries by the dignity and elegance of her demeanor, and by great personal beauty. Her mental gifts were not less attractive, her education being very superior to that generally bestowed upon Spanish women. She was an object of admiration to the emperor of the French, who married her on the 30th Jan., 1853, at Notre Dame. On that occasion an annesty was granted to 4,312 political prisoners. The Prince Imperial, the heir to the French throne, was born 16th March, 1856. In the absence of the emperor during the Italian war of 1859, she exercised the office of regent with the assistance of a council. The ex-Empress E is a devoted supporter of the claims of the Holy See, and to her influence much of the policy of the emperor towards Italy, in this respect, has been attributed. Accompanied by the emperor, she visited the cholera hespitals in 1865, and her conduct on that occasion was very highly commended. At the end of 1869 she visited Venice and Constantinople, on her way to Egypt, where she represented mended. At the end of 1869 she visited Venice and Constantinophe, on her way to Egypt, where she represented France at the opening of the causal of Suez. From Aug. 1, to Sept. 4, 1870, she acted as Regent of France: and, since the downfall of the Empire, has resided in England. Eugenine, n. (Chem.) A crystalline substance extracted by alcohol from cloves.

Eugenium I., a pope and saint, succeeded Martin I. in 654. He is praised for his liberality and piety. Died 657

, succeeded Pascal I. in 824, and D. 827. EUGENIUS II

SUGENTUS II., succeeded Pascal I. in 824, and D. 827. SUGENTUS III., succeeded Lucius II. in 1145. Rome was at that time in a turbulent state, and finding that he could do little good, E. retired to Pisa, and thence to Paris. D. at Tivoli, 1163. SUGENTUS IV. (Gabriele Condulmero), succeeded Martin V.

EUGENIUS IV. (Gabriele Condulmero), succeeded Martin V. in 1431. The great event in his career was the schism created in the Church by the proceedings of the COUNCIL OF BASIL, q. e. E's pontificate was stormy and unhappy, and in his old age is said to have regretted that he ever left his monastery. D. at Rome, 1447.

Eugeny, n. [Gr. eugenia, from eu, well, and genos, race, stock.] Nobleness of birth.

Eugh, (yu.) n. [A. 8. iw.] A tree; the yew.

Etharley Creek, in Georgia, enters the Etowah River from Cass co.

Euharmon'(e, a. [Gr. eu, well, and harmonic.] That produces harmony.

produces harmony. Eula'lia, in Pennsylvania, a post-township of Potter

Euler'lia, in l'unsylvania, a post-township of Potter Co.

Euler, Lkonann, (oi'ler.) B. at Basle, Switzerland, 1707, was one of the greatest analysts of the last century,—not indeed ranking with Descartes. Newton. or Leibnitz, but by the unbroken accord of the world of science claiming equality beside Daniel Bernouilli and D'Alembert. A bare catalogue of the immense labors and voluminous writings of this illustrious person would occupy all our space; it may, indeed, be said of him, nithi letigit quod non ornavit; and his eager genius, surpassing industry, and exhaustless resources, led him through all the sphere of mathematical and physical science. Living immediately after the discovery of the infinitesimal calculus, no man did so much to unfold its powers and simplify its methods; his great works on that subject are still models of composition; and amid what sprung from his abundant, his amazing fertility, the germs are found of the most important of subsequent advances; his work on Isoperimeters may be said to have provoked the calculus of Variations of Lagrange. With Bernouilli, Euler divided several prizes; these two great men ran a strikingly corresponding race. The work by which he is popularly known is his Letters to a German Princes, a work instinct with acuteness, and evincing marvellous powers of exposition, but on the whole, perhaps, his only failure. He hopelessly tries in it to break a lance with Leibnitz—offering a refutation of the scheme of monads. E. was not a metaphysician, and his reputation betrays no sufficient comprehension of the meaning of the great German thinker. D. at St. Petersburg, 1783. ing of the great German thinker. D. at St. Petersburg 1783.

1835.
Ewilima, n. (Zoöl.) A genus of gasteropodous Mollusca belonging to the family
Pyramidellidæ, and containing a number
of species, the shells of which are small, of species, the shells of which are small, white, elongated, with an entire mouth, and a remarkable polished and shining exterior. The operculum is small, horny, and subspiral. Several species inhabit the Mediterranean; others, and those the largest, are found in India and the Pacific Ocean; while attill greater number are found for still greater number are found to still greater and the still greater number are found to still greater and the still greater are found to still greater and the still greater and the still greater are greater as the still greater and the still greater are greater as the still greater and the still greater are greater and the still greater as the still greater and the still greater and the still greater are greater as the still greater and the still greater and the still greater are greater as the still greater and the still greater and the still greater are greater as the still greater and the still greater are greater as the still greater and the still greater are greater as the still greater and the still greater are greater as the still greater and the still greater and the still greater as the still greater and the still greater and the still greater as the stil a still greater number are found fossil. Fig. esents the species E. dolobrata,



Fig. 972.

Eulog'ie, or Eulogical, a. [L. Lat. eulogicus.] Containing eulogy or praise; commendatory.

Eulog'ically, adv. In a manner to convey praise.

Eulogistie, a. One who praises or commends another.

Eulogistically, adv. With commendation.

Eulogistically, adv. With commendation.

Eulogistie, a. [Gr. eulogia. See Eulogy; Bulogy; praise; encomium; a speech or writing in commendation of some one.

Eulogise, v. a. [Gr. eulogeō.] To speak well of; to praise; to speak or write in commendation of another; to exton.

praise; to extol.

to exton.

Eulogy, (u'lo-ji,) n. [Gr. eulogia—eu, and logos, a saying or speaking; Fr. elogo.] A speaking well of; a speech or writing in commendation of a person; praise; comium; panegyric.
lo'phia, n. [Gr. eulophos, a handsome crest.] (Bot.)

Eulo'phia. A genus of plants, order Orchidacea. The tubercular roots of E. vera and E. campestris are much used in India for the preparation of the nutritious substance

India for the preparation of the nutritious substance known by the names of salep, salop, and saleop. Eurlysite. n. (Min.) A gneissoid rock consisting in part of augite and garnet, at Junaherg in Sweden. Eurlytite, n. (Min.) A silicate of bismuth found near Schneeberg, Saxony, and near Freiburg. Eurmas' use, a herdsman and stewart of Ulysses, who recognized his master, at his return home from the Trojan war, after twenty year's absence, and assisted him in removing Penclope's suitors.

Eu'manite, n. (Min.) Same as Brookite, q. r. Eumelus, (u-me'lus.) son of Admetus, king of Phere, went to the Trojan war, and had the fleetest horses in the Grecian army. He distinguished himself in the games appointed in honor of Patroclus. — There are others of this name in ancient history.

others of this name in ancient history.

Eumenes, (u'me-nes,) king of Pergamus, succeeded his uncle Philæterus, 263 s. c., and reigned 22 years.—

EUMENES II., nephew of the preceding, succeeded his father, Attalus, 197 s.C. He assisted the Romans against Antiochus the Great, and reigned 38 years.— Both of these sovereigns were greatly attached to learned pursuits, and the latter enriched the famous library of Pergamus, which had been founded by his predecessors, in intimation of the Alexandrine collection of the Ptolemies.

Ptolemies.

Eu'menes, a Greek commander, and accounted the most worthy of all the officers of Alexander to succeed him after his death. He conquered Paphlagonia and Cappadocia, of which he obtained the government, till the power and jestlosuy of Antigonus obliged him to retire. He then joined his forces to those of Perdicas, and defeated Craterus and Neoptolemus. He was put to death by order of Antigonus, 531 B. c. The latter, however, honored his remains with a splendid funeral, and conveyed his ashes to his wife and family at Cappadocia.

docia.

Eunmen'idee, n.pl. (Zoll.) Same as VESPARIE, q.r.

Eunmen'idees, (u-men'e-dees.) [Gr., the well-minded, or
benign goddesses.] (Myh.) The euphemistic name
given to the Enivres, q.v. By later poets, the name
was confined to the three sisters commonly known as the
Furies — Allecto, Megæra, and Tisiphone.

Eumo'mia, n. (Astron.) An asteroid discovered by
De Gaspariel, in 1851. It is the lôth in order of discovery.

covery.

Eundo morando et redeundo. [Let., going, remaining, and returning.] (Law.) This phrase is employed in cases where a person, either as party, a witness, or one acting in some other capacity, as an elector, is privileged from arrest, in order to give him the freeis privileged from arrest, in order to give him the free-dom necessary to the performance of his respective obligations, to signify that he is protected from arrest eundo morando et redeundo.

eundo morando et redeundo.

Estimuch, (u'nuk,) n. [Fr. eunuque; Gr. eune, a bed, and echina, to have the care of.] Literally, one who has the care of a bed,—a name given to this class of persons in the Bast, from their being intrusted with the care of the women's apartment, or harems. The practice is of great antiquity, and even in the time of Herodotus it was carried to a great extent among the Persians, who not merely intrusted the care of their wives and daughters to enumers. not merely intrusted the care of their wives and daughters to eunuchs, but considered them as more trustworthy than other men. The practice of making enuchs does not seem to have prevalled to any great extent in Greece or Rome; but during the Eastern Empire it was very common, and the chief of the eunuchs was one of the most important functionaries at court. Zeal for religion has caused many persons to undergo this operation. As early as the 3d century, there arose a class of enthusiasts, who, animated by the example ofthis operation. As early as the 3d century, there arose a class of enthusiasts, who, animated by the example of Origen, not only castrated those of their own persuasion, but even all persons on whom they could lay their hands. Several of the Christian emperors of Rome forbade the practice of making eunuchs; and Justinian imposed a law of retaliation on such as were guilty of such inhumanity. The Council of Nice, at a later period, excluded from the pale of the clurch all who from whatever cause, made eunucls of themselves. The practice is said to have prevailed in Italy, with the view of preserving the voice of singers for the operas of Europe; and in the East, at the present day, the seraglios are chiefly guarded by eunuchs.

Euruchisms. n. The state of being a eunuch.

Eumus, (u'nux.) a Sicilian slave, who infamed the minds of the people by pretended inspiration and enthusiasm. Oppression and misery compelled 2,000 slaves to join his cause, and he soon found himself at the head of 50,000 men. With this force he defeated the Romen armies, till Perpenna forced him to surrender by famine, and he and the greater-number of his followers were impaled on crosses, 132 s. c.

gasteropodous mollusca, fam-ily Turbinida. Many species have been described, occur-ring in the lower silurian formation, and consisting of depressed or discoidal shells of



consisting of depressed or discoidal shells of considerable size, with a po-fig. 973.—EUOMPHALUS PENTANGULATUS. lygonal aperture, and a very wide umbilicus.

Euom'ymaus, n. [Gr. es., well, and comma, a name, [Bot.] A genus of plants, order Chlatracca. They are erect or trailing strute, with opposite leaves. The principal American species are Entropurpuress, the Spindie-tree; and E. Americanss, the Burning Bush; they are found E. of the Mississippl and N. as far as canada. In France, the charcoal prepared from E. Europeas is largely used in the manufacture of gunpowder; while the young shoots, in a charred condition, are employed as rough crayons for sketching. The seeds are stated to be purgative and emetic, and also to be poisonous to sheep. The bark of the E tingues can be used as a vellow dye-staff.

Euometice, n. (Min.) A hydrocarbon found in clefts in brown-coal at Baiershof, Germany. It is of a brown-shy-glow color, looks like common pitch, and has an odor between that of rosin and camphor. Hardness 1-5, gravity 12 to 1-5, dissolves in alcohol and ether. Composition: carbon, 81-89, hydrogen, 11-73, oxygen 6-38.

Eupathy, n. [Gr. eupatheia — eu, and \*pathor\*, feeling, from pascho\*, to smfer. See Pascaal.] Right feeling.

Eupator, a surname given to many of the Asiatic princes, such as Mithridates, &c.

Eupatoria. or Koeslov\*, (w\*pator\*ea\*,) a town of Rasia, on the W. coast of Crimea, 65 m. from Perskop. It was ovcupied by the French and English armies in 1854, and successfully defended by the Turks against the Russians the following year. Ppp. 15,000.

Eupatoriams, n. [Derived by Linnsus from Mithridates Espator, who first used it as a counter-poison.]

(Bx.) A genus of plants, order Asteracca. They are perennial herbs, with opposite or verticillate leaves. Housts of the sequence with the service of the sequence of the sequence of the sequence of the particular than white, blue, red, &c., never yellow. The leaves of Endwise, the Hondhound, E. perficialism, the Thoroughwork, the Hondhound, E. perficialism,

Eupep'ile, a. Having good digestion.
Euphe'mia, in Ohio, a post-village of Preble co., abt
57 m. N. of Cincinnati.

57 m. N. of Cincinnati.

Exphemisms, a. [Fr. cuphemisme; Gr. cuphemismorth of the control of the

Emphemize, r. a. To make use of suphemistic ex-

presions.

Enphe mind, n. [Gr. eu, well, and phoneo, to sound.]

(Mar.) An instrument invented by P. S. & G. Groek, of Petersburg, Pa., combining the tones of the organ, clarinet, horn, bassoon, and violin.

Enphe mine, or Europarical, a. [Fr. euphonique.] Having suphony; agreeable in sound; pleasing to the ear.

Enphe mine, n. (Mus.) A kind of upright planoforte.

Enphe mine, a. [Gr. euphônos, sweet-voiced.] Having suphony; agreeable in sound.

Emphe minemaly, ade. With euphony; harmoniously.

Emphemisma, n. An agreeable combination of sounds.

Emphemisma, v. a. To make suphonious or agreeable in sound.

in sound.

Exphenem. a. (Mus.) An instrument invented by Chladni in 1790. It is similar in tone to the harmonica, and, like it, the tone is produced from the sounding body by the finger direct, without mechanism, and is regulated in quality and effect by the taste and feelings of the performer, who can produce tones from the most delicate planissimo to fortissimo.

Expheneum. a. Euphonical: Euphonion.

Expheneum. a. Euphonical: Euphonion — eu. and phone, sound.] An agreeable or harmonious sound; an eary, smooth enunciation of sounds.

Expherbias, n. [Named after Euphorbus, physician to Juba, king of Mauritania.] (Bot.) The typical genus of the order Euphorbiacox.

with milky juice. Leaves generally opposite, sometimes wanting, often stipulate. Involucre axillary or subumbellate. The genus includes about 300 species, many of which have valuable pro-perties. The acrid resin commonly known as gmm Euphorbium is the produce of certain undetermined species, the principal of which are probably E. antiquorusm. canariensis, and officinarum. It is a dangerous cathartic, emetic, and rubefacient, and produces severe inflammation of the nestrils if those who powder it do not guard themselves from the dust. It is produced from the wounded stems, and collected in leather bags. In India it is said to be mixed with the oil expressed from the seeds Sessamum orientale, and employed externally in rheumatic affections, and internally in cases of obstinate constipation. The Arabs are stated to make up violent diuretic pills by rubbing over the juice of the species E. antiquorum with flour; their camels, however, are said to eat the brauches of the plant when cooked. The juice of the species E. certiformis, heptagona, and virosa, African plants, furnish the Ethiopians with a mortal poison for their arrows; whilst that of E. cotinifolia serves the like purpose for the Brazillan Indians. The species E. hibernica is extensively used by the peasantry of Kerry for the purpose of stupefying fish; and so powerful are its properties said to be, that a small kreel or basket filled with the brused herb suffices to stupefy the fish for several miles down the river. E. hypericifolia, the Spurge or Eyebright, a plant of tropical America, is astringent and somewhat narcotic, and is employed in the diarrhosa of children and as a vermifuge; and E. thymifolia is employed for a like purpose in India. The root of E. ipecacuanha, the Ipecac Spurge, is said to be equal to the true ipeaceanha, and is commonly used in the United States. Another species, E. coroliata, the Flowering Spurge (Fig. 974), is also used here as an emetic. The fruits of E. lathyris, the Caper Spurge or Mole-tree, are sometimes pickled and ea

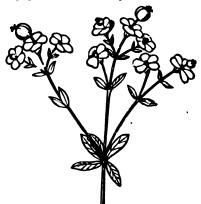


Fig. 974. — EUPHORBIA COBOLLATA.

their use is by no means free from danger. A very active catherite oil may be expressed from the seeds of the caper-spurge. The leaves of E. nerefolic are prescribed by the native practitioners of India, both internally as a purge, and externally, mixed with Margosa oil, in certain cases of contracted limb. The roots of E paisseries and pilosa are used as purgatives, and are said to have proved useful in hydrophobia. Many other species are purgative. E tirucalli, a native of India, is common in the Madras presidency, and makes an excellent hedge, as no catle will touch its leaves. The sap of E phorphorea is said to shine with a phosphoreacont light in the forests of Brazil on warm nights. Euphorbia/cees, n. (Bot.) The Spurgewort family, an order of plants, alliance Esphorbiales. Diac. Definite suspended and inverted ovules, scattered flowers, and tricoccous fruit.—They are trees, shrubs, and herbaceous plants, generally with an acrid milky juice. The flowers are unisexual, moneccious or dioccious, axiliary or terminal, sometimes inclosed in a calyx like involucre; achlamydoous, or with a lobed inferior calyx, having on its inside glandular or scaly appendages, or even evident petals, which are either distinct or united. The anthers are two-celled. The female flowers have a superior ovary, which is either elevated upon a stalk or seedile upon the thalamus, one-, two, three, or many-celled. The styles are either absent or corresponding in number to their divisions: the ovules, one or two in each cell, are pended from the inner angles of the cell. The fruit is either dry, when its parts separate from each other, and from the sais, usually opening with elasticity, or succulent and indehiscent. Seeds one or two in each cell, suspended, often with an aril or carunculate. Embryo inclosed in fieshy abumen, cotyledons flat, radicle superior. The plants of this ord, are more or less distributed over the globe, but are especially abundant in warm regions, particularly in equinoctial America. Many are extremely poisonous,

more or less. Many have been employed medicinally, as rubefacients, suppurants, emetics, diuretics, and cathartics. Some, as cascarilla, are tonic, aromatic, and stimulant, and are perfectly devoid of any acrid or poisonous principle. Others, as manihot, yield starch, which is largely employed for food. Caoutchouc and resin are obtained from the milky juice of others. The seeds of many yield oils, either of a bland or of an irritating nature. A few of the fruits, and some of the roots, are said to be estable. Timber is yielded by some, as the box; and dye-stuffs by others. The hairs of some are stinging. The order includes 191 genera and about 2,500 species.

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seeds of many yield oils, either of a bland or of an irritating nature. A few of the fruits, and some of the roots, are said to be eatable. Timber is yielded by some, as the box; and dye-stuffs by others. The hairs of some are stinging. The order includes 191 genera and about 2,500 species.

Emphor blanes, n. pl. (Bot.) An alliance of diclinous exogen plants. Drad. Scattered monodichismydeous flowers, superior consolidated carpele, axile placents, and a large embryo surrounded by abundant alliumen. This alliance includes the orders Euphorices, Scapoce, Cullitrichaces, Emperaces, and Nepenthaces.

Emphor bluma, n. (Med.) An arrid gum-resin, the product of Euphorica officinarum and other species; it is virulently purgative and enetic, and the dust of it is virulently purgative and enetic, and the first who wounded Patroclus, whom Hector killed. Pythagora, the founder of the doctrine of the metempsychosis, affirmed that he himself was once Euphorbus, and that his soul recollected many exploits which had been done while it animated that Trojan's body.

Emphratem, (u'frai-tex.) the largest river in Western Asia, and, with the Tigris, forms the most important river-system of that quarter of the world. It has its source in the heart of Armenia in two branches—the Kara Su and the Murad, of which the former rises 25 m. N.E. of Erzerum, and flows S.W. to a point 10 m. N. of Keban' Ma'den, where it is met by the Murad, which rises on the S. slope of Alā Tagh, and flows W.S.W. to the point of confluence. From Keban' Ma'den, the first course it breaks through the Taurus, and flows among the mountains for 45 m, emerging at Sumeisat, whence it continues navigable to the sea—a distance of 1,195 m. After passing Samosta, it changes its direction, and flowing S. separates for a considerable distance, man flowing S. separates for a considerable distance, and flowing S. separates for a considerable distance, and flowing S. separates for a considerable distance of 1,195 m. After passing Samosta, it changes its direction, and flowin

scott's limitations introduced into his romance The Monastery preserve little of their real character. (Hallam, Literature of Europe, part il. ch. vii.)

Eu'phuist, n. [Fr. euphuiste; Gr. euphyés.] (Rhet.)
One who affects excessive refinement and elegance of

On who affects excessive rennement and engaged language.

Eurphylitie, a. Belonging to euphuism or euphuists.

Eurphylitie, n. (Min.) A variety of MicA, q.v.

Eurphylitie, n. (Min.) A variety of MicA, q.v.

Eurphylitie, n. (I, very fat.) (Chem.) A very limpid liquid which stains paper like oil, and which exists in the tar produced during the destructive distillation of many animal and vegetable substances. Its specific gravity is 0.74, and it boils and evaporates at 340°. It is insoluble in water, but dissolves in other and alcohol. It is insipid and inodorous, but highly infiammable.

Euplas'tie, a. (Gr. cu, well, and plasso, I form.) (Med.) liaving the faculty of becoming organizable in a high degree, — as in false membrane resulting from acute infiammation in a healthy person.

flammation in a healthy person.

The organizable matter by which the tissues of the

—n. The organizable matter by which the tissues of the body are renewed.

Eu'pedia, n. [Gr., well-footed.] (Zoil.) A family of coleopterous insects, deriving their name from the great size of the hinder thighs of many of the species. They feed on the stems and leaves of plants, some of them on aquatic plants, the roots of which afford foot to their larve. The body is oblong; the antennæ filiform. Some of the cupoda are among the most splendid of tropical insects. The Crioceris asperagi, which belongs to this family, is of a blue color, with the thorax red, and the elytra yellowish-white, with blue markings.

in the larve state on the young sprigs of asparagus, and is sometimes so abundant as to do considerable

and is sometimes so abundant as to do considerable damage to the garden.

Eu'polis, a comic poet of Athens, who severely condemned the vices and immoralities of his age. It is said that he had composed 17 dramatic pieces at the age of 17. Some suppose that Aticibiades put Eupolis to death because he had ridiculed him in his verses; but Suidas maintains that he perished in a sea-fight between the Athenians and the Lacedemonians in the Heliesport. Lived in the 5th century 8. c.

Eupyrehroite, n. (Min.) A variety of phosphate of lime.

Eupyrehroite, n. [Gr. eu, and pyr, fire.] A term applied to several contrivances for obtaining instantaneous light, such as lucifer-matches, &c.

of lime.

Eupy'riam, n. [Gr. eu, and pyr, fire.] A term applied to several contrivances for obtaining instantaneous light, such as lucifer-matches, &c.

Eura-siam, n. [A contraction from Europe and Asia.] A descendant of an European born in Asia.

Eure, (oar.) a river of France, rising in the dep. Orne, and failing into the Seine near Pont-de-l'Arche.

Eure, (oar.) a fiver of France, comprising the E part of Normandy, and situate on the sestuary of the Seine; Lat. between 48° 37′ and 48° 28′ N.; area, 2,414 sq. m. It is divided into 5 arrond. — Evreux, Louviers, Les Andelys, Bernay, and Pont-Audemer. (up. Evreux. Along the Seine the soil in some parts is sandy, stony, and barren, but the greater part is very fertile. The chief natural products are corn, hemp, flax, vegetables, and fruit, particularly apples and pears, from which large quantities of cider and perry are made. The breeding of cattle, horses, and sheep is favored by extensive meadows and pasture-lands. Iron is found in considerable quantities. There are extensive iron and copper works and pin manufactories. Cotton goods, cloth, linen, paper, glass, and stoueware are likewise manufactured.

Eure-et-Loir, a dep. of France, formed chiefly from the prov. of Oriéanais, bet. Lat. 47° 57′ to 48° 55′ N., and Lon. O' 47′ to 2° E.; area, 2,248 sq. m. It is watered mainly by the Eure in the N. and the Loir in the S., the two rivers from which it takes its name. This dep. lies on the water-abed between the Bay of Biscay and the English Channel. It is in general level, with a soil very fertile. In the forests the oak and birch are the prevailing trees. The rivers, none of which are the prevailing trees. The rivers, none of which are the prevailing trees. The rivers, none of which are the prevailing trees. The rivers, none of which are the prevailing trees. The rivers, none of which are the prevailing trees. The rivers, none of which are the prevailing trees. The rivers, none of which are the prevailing trees. The rivers, none of which are the prevailing trees.

Eure'ka, n. [Gr., I have found it. See ARCHIMEDES.

Discovery.

Eure' Kas, in Alabama, a post-office of Talladega oo.

Eure' Kas, in Arisona, a village of Yuma co., on the
Colorado river, about 170 m. S.W. of Prescott.

Eure' Kas, in California, a thriving city, cap. of Humboldt co., on Humboldt Bay, 2 m. from Pacific Ocean, 225

m. N.W. of Sacramento. Has 2 railreads and steamboat:
connections; lumber milliand other industries; is in the
redwood forest region. Pop. (1897) about 8,450.

—A township of Nevada co., containing rich gold mines.

Eure' Kas, in Illisois, a post-village of Woodford co.,
about 20 m. E. of Peoris.

Eure' Kas, in Indiana, a post-village of Spencer co.,
about 10 m. W. of Rockport.

Eure' Kas, in Kadama, a city, cap. of Greenwood co., on

Eure' K.a., in Kansas, a city, cap. of Greenwood co., on A., T. & S. F. and Mo. Pac. R. Ra., 48 m. S. of Emporia. Has a large shipping trade in grain, cattle, &c. Pop. (1897) about 3,000.

Eure'ka, in Nichigan, a post-office of Clinton co.

—A township of Montcalm co.

(1897) about 3.000.

Eure' k.a., in Minkelogus, a post-office of Clinton co.

—A township of Montcalm co.

Eure' k.a., in Minkelogus, a township of Dakota co., about 25 m. S. by W. of St. Paul.

—A villege of Nicollet co., on the Minnesota river, about 15 m. S. by W. of St. Paul.

—A villege of Nicollet co., on the Minnesota river, about 15 m. S. W. of St. Peter.

Eure' k.a., in Missouri, a post-village of St. Louis co., about 30 m. W. by S. of St. Louis.

Eure' k.a., in Missouris, a post-village of Winnebago co., on Fox river, about 16 m. W. of Oshkoch.

Eure' k.a. fin Wisconsis, a post-village of Winnebago co., on Fox river, about 16 m. W. of Oshkoch.

Eure' k.a. fin Wisconsis, a post-village of Winnebago co., on Fox river, about 16 m. W. of Oshkoch.

Eure' k.a. fin Wisconsis, a post-village of Winnebago co., on Fox river, about 16 m. V. of Oshkoch.

Eure' k.a. fin Wisconsis, a post-village of Carroll co., 85 m. S.W. of Springfield, Mo. Has valuable mineral springs. Pop. (1897) about 4,000.

Euripides., (u-ripiders.) one of the great Greek tragic poets, was B. at Salamis, about B. c. 481. According to a legend, his birth took place on the very day of the battle of Salamis. He was taught rhetoric by Prodicus, excelled in gymnastic exercises, studied painting, and applied himself to physical science and philosophy. He was a disciple of Amxazoras, and afterwards of Socrates.

Euripides was disciple of Amxazoras, and afterwards of Socrates.

His first play was exhibited B. c. 485, the year that Æschylus died: and his last in 408. He scon after went to the court of Archelaus, king of Macedonia, and in 408 was killed by the king's hounds, which savagely attacked him in a lonely place. Euripides was of a serious and speculative turn. could not believe in the popular mythology, yet took from it the subject of his plays, making any changes to adapt them to his purpose, especially stripping the persons of all ideal greatness. He brought tragedy down to the level of every-day life, and painted men as they are, not as th

what was called the satyric drama. To E. chiefly was owing the introduction of the prologue, and the Deax ex machina, or the practice of solving the difficulties of the plot by direct visible interposition of a god. E was the contemporary and rival of Sophocles, and was one of the victims of the satire of Aristophanes.

Euripus, Euripos, a narrow strait separating the island of Bubers from the coast of Becotia. The flux and reflux of its tide, continuing regularly for 18 or 19 days, and becoming stationary for the remainder of the month, was a matter of deep linquiry among the ancients.

Euroc'lydon, n. [Gr.] A violent wind, mentioned in Acts xvii. The name seems to signify a storm from the east; but the readings vary greatly, and among these variations occurs the form the satistic villagate, euro-aquito, the north-east wind.

Europa. (Myth.) The daughter of Agenor and Telephassa, and sister of Cadmus the founder of Thebes. According to some legends, her birthplace was in Phenicia. Thence she was carried away by Zeus or Jupiter in the form of a white bull, and became by him, in Crete, the mother of Minos, Rhadamanthus, and Æccus.

Europe (yū'rop), the most densely peopled, but, with the exception of Australasia, the smallest of the divisions of the globe, being about a fifth part of the size of Asia or America, and a third part of that of Africa. E is mostly situated within the temperate zone, and no part of her surface approaches within many degrees of the intertropical regions. The climate is therefore rather inclined to cold; but it is comparatively temperate, and a neither so cold in winter nor so hot in summer as the countries in the corresponding latitudes of Asia and America, so that while comfortable lodging and and is neither so cold in winter nor so hot in summer as the countries in the corresponding latitudes of Asia and America, so that while comfortable lodging and warm clothing are indispensable, the exertions of the inhabitants are not impeded by the too great intensity of cold on the one hand, or of heat on the other. The surface, too, of the country is infinitely varied and picturesque, and it has the advantage of being more intersected than any other continent by great arms of the sea, supplying facilities to internal and foreign commerce that are all but wholly denied to Asia, Africa, and Australasia, and only enjoyed in an equal degree by America. The soil of E also seems to be of the quality best suited to stimulate and reward the efforts of the husbandman; for though it is nowhere so fertile as to produce crops without laborious diligence, and consequently does not foster indolence or a want of attention, it never fails liberally to reward the efforts of the industrious and skilful cultivator.—

Owing to its peninsular conformation, the present want of attention, it never fails liberally to reward the efforts of the industrious and skilful cultivator.—
Owing to its peninsular conformation, the present boundaries of £ are on three sides easily stated: its W., shores form the irregular rim of the great basin of the North Atlantic; on the N. It lies along the Arctic Ocean; and on the S. it is separated from Africa and Asia by the Mediterranean, the Sea of Marmora, the Black Sea, and their connecting straits. Towards the £, on the other hand, the boundary is almost purely conventional: the Ural Mountains may be regarded as furnishing a sort of natural barrier, but they leave a considerable gap both towards the N. and the S. In the S., the river Ural is usually accepted as the line of demarcation, though the blain through which it flows is perfectly similar on both sides.—The four corners of £ are marked by the mouth of the Kara on the Arctic Ocean in the N. E., lat. 69° N., lon. 50° 20′ E. iby Cape Tarifa on the Atlantic in the S.W., lat. 36° N., lon. 50° 20′ E. A line drawn from Cape St. Vincent in Portugal to the Ural Mountains near Ekaterinburg has a length of 3,233 m., and finds its center in the W. of Russian Poland. From the mouth of the Kara to the mouth of the Ural river the direct distance is 1,600 m., but the boundary line has a length of 2,400 m.—The total coast-line is est. at 19,820 m., of which about 3,600 belong to the Arctic Ocean, 3,390 to the Atlantic, and 7,830 to the Black Sea and the Mediterranean.
—The political divisions of £ in 1897, with their areas and populations modified by recent events, as the Franco-Pruesian War and the Berlin Treaty (qx.), were as follows:—

Pol. Divisions.	Gow't.	Area in English Sq. Miles.	Pop.	Capitale.
Russia in Europe	Empire	2,095,064	91,212,888	St. Petersb'g.
Germany	Empire	211,149	52,250,394	Berlin.
Austria & Hung'y		240.456	41.358,886	Vienna.
Bosnia, Herzego- vina, &c. (occu- pied by Austria	-	28,179	1,404,000	
France	Republic	204.092	38,228,989	Paris.
Gt.Brit.& Ireland			39,134,166	London.
	Kingdom	114,410	31,102,833	Rome.
Spain		197.670	17.974.323	Madrid.
Sweden& Norway		293,848	6,920,177	Stockh'm & Christiana.
Belgium	Kingdom	11,378		Brussels.
Roumania	Kingdom	48,307	5 038,342	Bucharest.
Turkey in Europe	Empire	63,850	4,785,545	Constantin'le
Portugal	Kingdom	36.028	5,049,729	Lisbon.
Netherlands	Kingdom	12,648	4.859,451	Amsterdam.
Switzerland	Fed. Rep.	15,892	2,986,848	Berne.
Denmark	Kingdom	14,124	2,185,159	
Bulgaria	Princip'y	88.560	8,309,816	Philippopolis.
Servia	Princip'y	18,750	2,314,153	Belgrade.
Greece	Kingdom	25.014	2,187,208	Athens.
Montenegro	Princip'y	8.630	220,000	Cettigné.
Luxemburg	Gr. Duc y	1,706	212,041	Luxemburg.
	Republic	175		Andorra.
	Princip'y	70		Liechtenst'n.
San Marino	Republic	82		San Marino.
Monaco	Princip'y	8	13,304	Monaco.
TOTALS OF EU	BOPE .	8.790 857	358 906 730	1

Seaz, Gulfs, Bays, and Chanads. The Mediterraneas, Baltic, Black, Irish, North and White seas, Sea of Asof, Sea of Manfors, and German Ocean. In the Mediterranean are the gulfs of Lyons and Venice, or Adraidses: in the Baltic are the gulfs of Bothnias, Finsiand, and Riga, the Skager Rack in the North Sea, and the Cuttegat. The Bay of Blacy is in the Atlantic, and the principal channels are the Knglish and St. George L. George L.

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[Europe.]





## EUROPE

EUNUFE
AndorraF 5 (Republic) Area175 sq. m. Pop6,000
Pop 6,000
AUSTRIA- HUNGARYI4 (Monarchy)
(Monarchy) Area, 261,512 sq. m. Pop12,691,977
BELGIUM F 8 (Kingdom)
BELGIUM F 8 (Kingdom) Ares, 11,373 sq.m. Pop6,484,940
British Isl <b>es</b> (Kingdom) D 2 Area.
Area, 120,979 sq. m. Pop38,104,975
BULGARIAL 5 (Principality) Area, 37,860 sq.m. Pop3,154,375
Area, 37,860 sq.m. Pop3,154,375
DENMARK H 2 (Kingdom) Area, 15,239 sq.m. Pop2,185,159
Pop2,185,159 FRANCE F 4
(Republic)
Area, 204,092 sq. m. Pop38,843,192
GERMANY H 3 (Empire) Area,
211,168 sq. m. Pop49,422,928
GIBRALTARE6 (Colony)
Arca, 1 9-10 sq. m. Pop25,755
GRERCE K 6 (Kingdom) Area, 25,041 sq.m. Pop2,187,208
Pop2,187,208  ITALY
A rea
114,410 sq. m. Pop28,459,628 LUXEMBURG G 4
(Grand Duchy)
Pop 211,088  Monaco G 5 (Principality)
Area8 sq. in. Pop12,000
MONTENEGRO I 5 (Principality) Area, 3,630 sq. in. Pop 236,000
NETHERLANDS (The)G 3
(Kingdom) Area, 12,618 sq.m. Pop 4,511,415
Norway H 1 (Kingdom)
Area, 124,445 sq. m. Pop1,999,176
PORTUGALD 6 (Kingdom)
PORTUGALD 6 (Kingdom) Area, 32,528 sq m. Pop4,306,534
ROUMANIA L 5 (Kingdom) Area,48,307 *q m. Pop5,500,000
Pop5,500,000 Russia N 2
Area, 2,095,504 sq. m. Pop99,323,191
(Republic)
Area 32 sq. m. Pop 8,000 SERVIA K 5
SERVIAK 5 (Kingdom) Area,19,050 sq. m. Pop2,157,477
BPAIN E 5 (Kingdom)
Area.
197,670 sq. m. Pop17,257,432 SwedenI 1
(Kingdom)
172,876 sq. m. Pop4,774,409
SWITZERLAND (Republic).G 4 Area,
15,976 sq. m. Pop2,933,612
(Empire)
Area, 61,200 sq. m. Pop4,790,000

sh, and Portuguese, which are partly a corruption of the Latin; the German, Flemish, Dutch, Swedish, Danish, and English, which proceed from the Teutonic; the Sclavonic, which predominates in the language of Poland, Russia, Bohemia, and a great part of Turkey in Europe; the Celtic, of which there are dialects in Wales, Scotland, Ireland, the N.W. of France, and Lapland; the modern Greek, and some others.— Rel. The inhabitants, however divided into sects, are all Christians, with the excention of the Turks and scattered settlements of the modern Greek, and some others.— Rel. The inhabitants, however divided into sects, are all Christians, with the exception of the Turks, and scattered settlements of Jews. The Christians in Europe are composed of three great bodies—the Catholics, the Protestants, and the Greek Church.— Hist. According to the mythology of the poets, Europe received its name from Europa, who was carried there by Jupiter. Bochart derives the name from the Phosnician uruppa, which he makes equivalent to the Greek Lukoprracipus, of a white or fair aspect: and considers it as applying to the continent of E., from the Aire visages and complexions of its inhabitants. M. Gebelin, on the other hund, deduces the word from the Hebrew creb, west, as indicating the country lying in that direction from Asia. The first inhabitants of Europe came from Asia; and during the period when large and powerful empires flourished in that quarter of the globe, E. remained for a length of time plunged in larbariam. Greece first emerged from this barbaric state, and soon attained a high degree of civilization, at the same time apreading her colonies over southern Italy, as well as on the coasts of Gaul and Spain. In the 8th century B. C., Rome was founded, and, by degrees, conquered the whole of Italy, finally extending her dominion over nearly all E., with the exception of its more northern nations. After the fall of the Roman empire, the Parbarians, coming for some part from Asia, overan Europe, and for many ages after their adventages. its more northern nations. After the fall of the Roman empire, the barbariana, coming for some part from Asia, overan Europe, and for many ages after their advent there existed on the continent an entire anarchy. The empire of the Visigoths was formed in Spain, that of the Franks in Ganl, the Lombards in Italy, the Saxons in the north of Germany, the Avari in the south, and, afterwards the Saxons and Angles, or Anglo-Saxons, in Britain. The Greek empire at Constantinople, the only remnant of the Roman domination, subsisted, nevertheless, in eastern E. About the year 800 A.D., the great conqueror and administrator, Charlemagne, moulded, for a time, the heterogeneous mass into one vast empire, embracing the greater part of western E. His successors were unable to hold together what the genius of their ancestor had formed; and from the ruins of their ancestor had formed; and from the ruins of this large possessions arose the separate kingdoms of of their ancestor and formed; and from the runs of his large possessions arose the separate kingdoms of France, Germany, Italy, Lorraine, Provence, Burgundy, &c. In the 10th century, the great nations of the North came forth from their obscurity, and Russia, Sweden, Norway, and Denmark took rank as European powers, at the same time that the Moors, who had invaded and hald the first roystices of the Sensish parisure for at the same time that the Moors, who had invaded and held the fairest portions of the Spanish peninsula, from the 8th century till this period, began to retire before the Christian kings of Leon, Castile, Aragon, and Portugal. At length, in the 15th century, on the taking of Con-stantinople by the Turks, 1453, all the great states of Europe may be considered to have been founded. In the stantinople by the Turks, 1453, all the great states of Europe may be considered to have been founded. In the 16th century, the United Netherlands detached themselves from the Spanish crown, and the Prussian monarchy was not formed until the 18th. The general war which broke out on the French revolution of 1789, changed, for a time, the aspect of the continent, Napoleon I. being everywhere victorious. After the fall of his empire, the old order of things was in a great measure re-established. The territories of the various states, as fixed by the treaties of 1815, are those which now subsit, with the exceptions below noted. In 1827 Greece separated from the Turkish empire. In 1831, the hingdom of the Netherlands was divided into the kingdom of the Netherlands was divided into the kingdom of the Netherlands was divided into the kingdom of the Netherlands was divided into the wingdom of the Netherlands was divided into the kingdom of the Netherlands was divided into the kingdom

—a. A native of Europe.

Europe'an isma, n. Quality of being European.

Europe'an ism, v. Quality of being European.

Europe'an ism, v. a. To cause to become like the European in manners or character; to habituate or accustom to European usages; to cause to become naturalized or domesticated in Europe.

Euro'isma. (Anc. Geog.) The name of an ancient river in Greece. The Spartans gave it divine honors. Its modern name is Vasili.

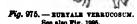
Eu'rus, a. The east wind.

Eury'ale, a. (Bol.) A gen. of plants, ord. Nymphracce.

E ferox is a water-lily with small red or violet-colored flowers, leaves about a foot in diameter, the leaf-stalk and calyces covered with stiff prickles; native of India and calyces covered with stiff prickles; native of India and China. The fruit is round, soft, pulpy, the size of a and China. The fruit is round, soft, pulpy, the size of a small orange, composed of a number of carpels, and containing round black seeds as large as peas, which are full of a nutritions farina, and eaten roasted. The root contains starch, which may be used for food, or be itself eaten. It is said to have been in cultivation in China for upwards of 3,000 years.—(Zod.). See top of next col. Serye erous, a. [Gr. eurus, broad, and kerus, a horn.] That has a broad horr. Enryc'erous, a. [Gr That has a broad horn.

(Zod.) A remarkable genus of radiate animals, family Asteriadæ, or Starfishes, in which each division of the rays To Ba is branched again and again, so that the whole resem-M 100 g bles a bunch of serpents tails. Fig.975 represents 200 the whole of the

the whole of the body, with only two of the rays given in detail. They are sometimes known by the name of Medical back and the source of the body with only and the source of the body, with only and the source of the body, with only and the source of the body, with only and the source of the body and the body and the source of the body and the source of the sour dusa's heads. branches must be of singular use to the animal in securing its prey.
Euryd'ice.
(Myth.) See Or-



(Myh.) See OB- Fig. 975. — EURYALE VERRUCOSUM. PHEUS.

See also Fig. 1965.

EURYS'themes, a son of Aristodemus, who lived in perpetual dissension with his twin-brother Procles, while they both sat on the Spartan throne. It was unknown which of the two was born first; the mother, who wished to see both her sons raised to the throne, refused to declare it, and they were appointed joint kings of Sparta, by order of the oracle of Delphi, 1102 B.C. The descendants of Eurysthenes were called Eurysthenidas, and those of Procles, Proclidse. Eurysthenes had a son called Agids. Who succeeded him. His descendants were called Agids. There sat on the throne of Sparta 31 kings of the family of Eurysthenes, and only 24 of the Proclidse. The former were the more illustrious.

on Eurystnenes, and only 24 of the Proclide. The for-mer were the more illustrious. Eurys'theus, a king of Argos and Mycenes, whose birth was hastened by Juno two months, that he might come into the world before Hercules, the son of Alc-mena, as the younger of the two was doomed, by order of Jupiter, to be subservient to the will of the other. This natural winds were availed. of Jupiter, to be subservient to the will of the other. This natural right was cruelly exercised by Eurystheus, who imposed upon Hercules the most dangerous enterprises, well known by the name of the twelve labors of Hercules. See ALCHENA.

EURYthms, (w'rith-me.) n. [Gr. eurythmia—eu., and rythmos, measure, proportion, or symmetry of parts. See Ruffel, and elegance of the parts of a body, arising from just proportions.

(Med.) Regularity of pulse.

Euse-biam, n. (Eccl. Hist.) A follower of Eusebius, q. v.; an Arian.

the father of ecclesiastical history, s. at Cesarea about 270. Pamphilus was his earliest friend in Cesarea, and gave the young student access to the large library which he had collected. Pamphilus was at length imprisoned, and Eusebius remained his attached and inseparable and Eusebius remained his attached and inseparable companion. And when the prisoner suffered martyrdom under Galerius, in 309, Eusebius field first to Tyre, and then to Egypt. On his return, about 314, he was made bishop of his native city, and continued in that diocese till his death. In the year 325 he attended the Council of Nice, and delivered a formal address to the emperor. The Nicene creed, which condemned Arianism, was in its earliest draught composed by him; but he scrupled at length to subscribe to it, after several important verbal alterations had been made upon it. His caution and atterations had been made upon it. His caution and moderation afterwards subjected him to the charge of that very heresy which the Nicene council had been summoned to confute. His views on the Trinity apthat very heresy which the Nicene council had been summoned to confute. His views on the Trinity approached those of Origen, and he seems to have held a species of subordination among the persons of the Godhead, which was incompatible with a consistent belief in the supreme deity of the Son. At the Council of Tyre, in 335, he joined in deposing Athanasius on a charge of contumacy. Prior to this period, in 330, he was offered the patriarchate of Antioch, but refused it; and he died about the year 340. Eusebius was a divine of great learning, accomplishments, and industry. Not a few of his numerous works have been preserved, which have been of great service to theology, especially to church history. His Preparatio Evangelica, in fifteen books, was, as its title implies, intended to prepare the pagan mind for the reception of Christianity, by showing the vast inferiority of other religions; and his Demonstratio Evangelica, in twenty books, of which ten have been preserved, was meant for the Jewish nilnd, and as a positive evidence for Christianity, especially in its connection with the oracles and prophecies of the Old Testament. His Historia Ecolesiastica, in ten books, reaches from the birth of Christ to the defeat of Licinius in 324, and is an important and valuable record. Besides his Life of Omstantine, his Oration in praise of the same emperor, his Onamasticon, his tract against Hierocles, and his Eloge on the martyrs, we have his Chronicon, a Latin version of the second part of which, by Jerome, has been long known. But an Armenian version of the whole work was found some years ago, and published at Venice in 1818: known. But an Armenian version of the whole work was found some years ago, and published at Venice in 1818; other discoveries have been made by the famous Angelo

other discoveries have been made by the famous Angelo
Mai. The Theophania, another treatise of Eusebius, was
discovered in a Syrian version, by Mr. Tattam, in an Egyptian monastery, and has been translated into English.
Eusta-Chian Tube, n. (Anal.) The name given, after
the Italian anatomist Eustachius, to the communication
existing between the ear and the mouth. It begins in

the anterior part of the tympanum, and runs in a bony canal forwards and inwards, terminating with the pe-trous portion of the temporal bone. It then proceeds, partly cartilaginous and partly membranous, gradually enlarging to its termination behind the soft palate (see Fig. 896). It is through this tube of communication with Fig. 596). It is through this tube of communication with the ear that persons who have a perforated tympanum blow tobacco-smoke. When the Eustachian tule is stopped or obliterated, it produces deafness.

Eusta'chian Valve, n. (Anat.) A semilinear, membranous valve, which separates the right auricle of the heart from the inferior vena cava, first described by Furtachine.

Eusta'chius, or Eustachio, Bartologeo, an emi-

Eustachius.

Eustachius, or Eustachio, Barvolonzo, an eminent Italian physician of the 10th century. He settled at Rome, where he formed his anatomical tables, and made several important discoveries, among which is the Eustachian tube, q. v. Boerhaave published this author's Opiscula Anatomica in 1707. D. 1570.

Eusta'tius, or Eusta'tia, (St.,) one of the Dutch Leeward Caribbee Islands, in the W. Indies, 10 m. from St. Christopher's: area, 190 sq. m. It rises out of the ocean in the form of a huge, volcanic, pyramidal rock, tapering to its summit, and, in proportion to its size, is one of the finest and best cultivated islands of all the Caribbees. Pop. 3,000.

Eu'style, n. (Gr. eustylos, from eu, well, and siylos, a column.) (Arch.) The intercolumniation or space between columns, which, as the name imports, was considered the most beautiful, being two diameters and a quarter of the column in width.

Eu'synchite, n. (Mis.) Same as DECHENITE (q. v.).

Eu'taw, in Alabama, a post-town, cap. of Greene co., about 100 m. W.N.W. of Montgomery.

Eutaw Indians. See Utah.

Eutaw Springs, in S. Carolisa, a small tributary of the Santee river, in Charleston co. A buttle was fought on the banks of this stream in 1781, between about 2,000 Americans under Gen. Greene, and about 2,300 British under Col. Stuart. The latter were defeated and driven

on the banks of this stream in 1781, between alout 2,000 Americans under Gen. Greene, and about 2,300 British under Col. Stuart. The latter were defeated and driven from their camp; but the American soldiers in their search for plunder becoming disorganized and scattered, the British returned and Greene was compelled to retire. In the night, however, the British retreated toward Charleston, leaving 138 killed and wounded, and about 500 prisoners. The Americans lost about 550 in killed, wounded, and missing.

Eu'Serpe. (Myth.) One of the Muses, daughter of Jupiter and Mnemosyne. She presided over music, and was looked upon as the inventress of the finte. She is represented as crowned with flowers, and holding a flute in

is represented as crowned with flowers, and holding a flute in her hands.

(Bot.) A genus of plants, order Fulmacen. The species E. montana is one of the Cabbara nellegas called because the bage-palms, so called because the young lest-buds are boiled and caten like cabbage. From the fruits of other species, particularly £ assai and edukis, pleasant beverages are prepared.

Euter peam, a. Relating to Euterpeam, or to an association for the practice of music.

Euthamasia, Euthamasy, n. [From Gr. eu, well, and thanatos, death.] Literally, an easy death. By political writers it is employed in various senses to indicate such peculiar theories as bage-palms, so called because the



employed in various senses to indicate such peculiar theories as have the best tendency to uphold the state or disentangle it from difficulties. Thus, for instance, it is maintained that the issue of inconvertible paper-money is the true cuthanasia of public debts in modern countries.

Eutroph'ie, n. [From Gr. cs., well, and trophe, nonrishment.] (Mcd.) A term introduced for an agent whose action is exerted on the system of nutrition, without nocessarily occasioning manifest increase of any of the secretions. The chief eutrophics are—mercurials, the preparations of iodine, bromine, cod-liver oil, the preparations of gold and silver, sulphur, sugar, and sarsaparilla. aparilla.

Eu'trophy, n. (Med.) A good state of nutrition. Eu'tyches, the founder of the sect of the Eutrchians,

Eutych'ianism, n. The system or doctrines of Eutyches.

Eutych'ianism, n. The system or doctrines of Eutyches.
Eutych'ians, n. pl. (Eccl. Hist.) A religious sect of the 5th century, named after their founder Entyches, abbot of a monastery in Constantinople. They were marked by the vehemence of their opposition to the heresy of the Nestorians. The latter had asserted the distinctness of the two natures in Christ; the E fell into the opposite extreme, and held that the human nature of Christ was absorbed in the divine, and that his body had no real existence. Their views were condemned in a synod held at Constantinople, in 448, by Flavian, patriarch of that city, and Eutyches deposed; but this decision was controverted by another council held at Ephesus the following year. Eutychianism, however, was finally condemned in 451, at the general council of Chalcedon, which declared "that in Christ two distinct natures were united in one person, and that without any change, mixture, or confusion."

Eux'enite, n. (Min.) A rare mineral found in Norway. It is a columbo-tantalate, containing titanic acid.

yttrium, and uranium. Color, brownish-black; hard-

yttrium, and uranium. Color, brownish-blace; hardness, 65; sp. gr. 4:60 to 4:99.

Eux'ime, s. [Gr. euxisses, hospitable.] The name given by the ancients to the BLACK SEA (q. v.).

Eur'solith, Eur'solite, s. (Mis.) A variety of Still

ET NUMBER (2 v.).

E'va. in Alubama, a post-office of Morgan co.

Evac'uant, a. [Lat. evacuans. See Evacuate.] (Med.)

Empiring; freeing from; purgative; cathartic.

—n. (Med.) A medium which promotes evacuation; a

Evac'uate, v. a. [Fr. évacuer : Lat. evac

Evac'uate, v. a. [Fr. évacuer; Lat. evacuo, evacuatus—e, ez, and racuo, to empty, from raco. See Vacast.] To empty out; to make empty; to throw or draw out the contents of; to free from anything contained; to eject; to void; to empty; to quit; to withdraw from a place. Evac'uated, p. a. Emptied; cleared; freed from the contents; quitted; ejected; discharged; vacated. Evacuation.] Act of emptying or clearing of the contents.—Discharge of any matter by the natural passages of the body, or by an artificial opening.

(Mil.) The act of quitting or withdrawing from a place. Evac'uative, a. (Mel.) That evacuates; purgative; cathartic.

(Mil.) The act of quitting or withdrawing from a place. Evac' mative, a. (Med.) That evacuates; purgative; cathartic.

Evac' mater, n. [L. Lat. evacuator.] One who evacuates or makes void.

Evade', v. n. [Fr. évader; Lat. evado—e, ex, and vado, to go or walk hastily, akin to Gr. baino, to go; badiso, to go or walk slowly; Heb. bd, to go or come in, to enter; Sansk. vach, to go.] To go out or away hastily; to go forth; to get or all paway; to escape; to attempt to escape; to practise artifice or sophistry for the purpose of eluding; to prevaricate; to equivocate; to shuffle.

—v. a. To traverse or pass over; to avoid by dexterity; to avoid or escape by artifice or stratagem; to slip away from; to elude by subterfuge, sophistry, address, or incrensity; to escape; to baffle.

Evaga'tiem, n. [Lat. evagatio; evagor, to roam about.] The act of wandering; excursion; deviation.

Evaga'tiem, n. [Lat. evagatio; evagor, to roam about.] The act of unsheathing.

Evag'eras, a Greek historian, who wrote a History of Eyypt, the Life of Tumagenes, and other works. Lived in the lst century, A. D.

Evan'der, an adventurer, who went from Arcadia to Ituly, and drove the aborigines from their ancient possessions, and reigned in that part of the country where Rome was afterwards founded. He gave Eness assistance against the Rutuli, and distinguished himself by his hospitality. It is said that he first brought the Greek alphabet into Italy, and introduced there the worship of the Greek deities. He was honored as a god after death, and his subjects raised him an altar on Mount Aventine.—A philosopher of the second academy, who flourished 215 B. C.

Evamesee', v. n. [Lat. evanesco.] To vanish; to disappear.

Evances'ce. v. v. [Lat. coanso.] To vanish; to disappear.

Evances'cemec. v. [From Lat. coansocous, from evanco-e., cz., and vaneco, from vanus, empty, void, vacant. See Vanish.] A vanishing away; a waning or decreasing; a disappearing; a gradual departure from sight or possession; state of being liable to vanish.

Evances'cemt, a. [Lat. coansocous.] Vanishing away; waning; decreasing; decaying; disappearing, subject to vanishing; fleeting; passing away; liable to disapation; insensible; imperceptible.

Evances'cemtly, adv. In a vanishing manner.

Evangel, v. [Gr. coangelion, good tidings.] The gopole of Christ.—Good tidings.

Evangel'ina, a. Rendering thanks for favor. (a.)

Evangel'ina, a. Rendering thanks for favor. (b.)

Evangel'ina, a. Rendering thanks for favor. (b.)

Evangel'ina, a. Rendering thanks for favor. (c.)

Evangel'ina, a. Rendering thanks for favor. (b.)

Evangel'ina, a. Rendering thanks for favor. (c.)

Evangel'ina, a. Rendering thanks for favor. (b.)

Evangel'ina, a. Rendering thanks for favor. (c.)

Evangel'ina, a. Rendering thanks for favor. (b.)

Evangel'ina, a. Rendering thanks for favor. (c.)

gospel; contained in the gospel; sound in the doctrines of the gospel; orthodox.

Evangel'ical, a. Agreeable to, or in conformity with the doctrines of the Gospel.—It is frequently applied to those who make the atonement of Christ alone.

with, the doctrines of the doctrines. It is requestly applied to those who make the atonement of Christ aione, and not the performance of moral duties, the ground of salvation; and hence it is frequently used as synonymous with orthodox. In Prussia the term is employed to designate the national Protestant Church, which is formed by a union of both Calvinists and Lutherans, being an attempt to unite the two parties.

Evanged/ical Alliamee, a. (Eccl.) An association of Christians of various denominations, formally organized in London in 1846. Its object is to promote unity and co-operation among the different sects of Protestants, and to unite their efforts against the advance of Romanism and infidelity. Their object is also to encourage and strengthen laborers in the cause of Christianity in all parts of the world, particularly such as are struggling with difficulties and hardships. They also exert themselves in behalf of religious toleration in all parts of the world. The branch associations of the Alliance are seven in number, as follows: 1. Great Britain and Ireland; 2. United States of North America; 3. France, Belgium, and the Freuch portion of Switzerland: 4. Norther Gormany. 6. South Germany and the Gen. age and strengthen laborers in the cause of Christianity in all parts of the world, particularly such as are struggiling with difficulties and hardships. They also exert themselves in behalf of religious toleration in all parts of the world. The branch associations of the Alliance are seven in number, as follows: 1. Great Britain and Ireland; 2. United States of North America; 3. France, Belgium, and the French portion of Switzerland; 4. Northern Germany; 5. South Germany, and the German portion of Switzerland; 6. British North America; 7. West Indies.—The members of the Alliance are such as hold evangelical views on the following points: the divine inspiration of the Holy Scriptures, and the right of private judgment; the Trinity; depravity of human nature; the incarnation; justification by faith alone;

EVAN

the work of the Holy Spirit in conversion; the immortality of the soul; resurrection and judgment; the divine institution of the Christian ministry; and the obligation of the ordinances of Laptism and the Lord's Supper. They hold, at irregular intervals, conferences for devotion and mutual consultation in London, Paris, Berlin, New York, Geneva, and other cities.

Evangel'ical Association, n. (Eccl.) A religious body which took its rise in Pennylvania, in 1800, and has since spread over most of the U. States and a great part of Canada. Its founder was Jacob Albrecht, a German Lutheran, who, impressed with the want of religious life, and the corruption that prevailed among the German churches, commenced a course of itinerant preaching, and made many followers. They devote themselves much to missionary labor, especially among the German churches, commenced a course of itinerant preaching, and made many followers. They devote themselves much to missionary labor, especially among the German population. In theology, they are Arminian; but on other points they agree in the essentials of Christianity with the various evangelical churches, with whom they seek to cultivate friendly feelings.

Evangel'ical Union, n. (Eccl.) See Morrisontans. Evangel'icalism, Evangel'icalism, n. Evangel'icalism, Evangel'icism, n. Evangel'icalism, adv. In a manner according to the Gospel.

Evaniged'ically, adv. In a manner according to the Gospel.

Evanged'icalmees, Evangelec'ity, n. Quality of being evangelical.

Evangedism, n. The promulgation of the Gospal; evangelical religion or doctrine; evangelicism.

Evangedist, n. [Fr. coanglists; Gr. canap-gelists. See Evancuical] One who brings good tidings; a preacher of the Gospel; a missionary.—Hence the writers of the four gospels are called evangelists, because they proclaim the glad tidings of salvation through Christ. E was also the name given to a particular class of Christian teachers chosen by the apostles to preach the Gospel, and ranking after the apostles and prophets, but before the pastors and teachers. They had no particular flocks assigned to them, but travelled from place to place under the direction of the apostles. This order is supposed to have been merely temporary, like that of the apostles and prophets; and the term is now only applied to those writers in the New Testament who have given us the history of Christ: Matthew, Mark, Luke, and John. Matthew's is assigned by different authorities to various dates between 38 and 64; Mark's to 60 or 63; Luke's to 63 or 64; and John's to 97 or 98.

Evangelistiary, n. A selection from the Gospela, to be read, as a losson, in divine service.

Evangelistiate, a. Relating to evangelism; evangelical.

Evan'gelistary, n. A selection from the Gospela, to be read, as a lesson, in divine service.

Evangelistic, n. Relating to evangelism; evangelical.

Evangelist Islamda, a cluster of rocky islets off the W. coast of Patagonia, S. America, forming a good land-mark for the W. entrance to the Strait of Magellan, the southernmost being in Lat. 52°24' S. Lon. 75°7' W. Evangelism: 100 to 100 distinction. In 1835 he volunteered to command the British legion in Spain, and for his valor throughout the campaigns in which he served against the Carlista, he was invested with the Order of the Bath and the Cross of San Ferdinand and San Charles of Spain. In 1854 he became commander of the 2d division of the army of the East, and greatly distinguished himself at the battle of the Alma. He had a seat in parliament since 1831.

D. 1870.

Ev'ans, in Colorado, a post-village of Weld co., 47 m.

N. by E. of Denver.

Evans, in New York, a post-town and township of Eric county, on Lake Eric, about 20 m. S. S. W. of Buffalo. Pop. (187) about 2,800.

Ev'ansburgh, in Ohio, a post-village of Coshocton co., about 85 m. N. E. of Columbus.

Evansburgh, in Pennsylvania, a village of Butler co., about 220 m. W. by N. of Harrisburg.

—A post-borough of Crawford co., about 90 m. N. N. W. of Pittaburgh. (P. O., Stony Point.)

—A village of Montgomery co., about 7 m. N. W. of Norristown.

Evans' Creek, in Michigan, enters Raisin river from Lenawee county.

Ev'ansham, in Virginia. See WYTHEVILLE.

and Art Gallery, and a U. S. Marine mospital. 199. (1887) about 58,500.

Evansville, in Missessia, a post-village of Douglas co., about 22 m. W. N. W. of Alexandria.

Evansville, in Pensaglemia, a P. O. of Columbia co.

Evansville, in Wiscossia, a post-village of Ruck co., on Allen creek, about 22 m. N. W. of Beloit.

Evansville, in West Va., a post-village of Preston co.

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Evansville, in West Va., a post-village of Ruck co., on the constant co.

Evansville, in Preston co.

a. Converted into vapor; evaporated.

a. Converted into vapor or steam and dissipated, g. a. Converted into vapor or steam and dissipated; dissipated in insensible particles, as a finid; dissipated.

Evaporatiom, n. [Fr. teaporation, from Lat. evaporation, and in the conversion of a fluid into vapor; act of flying off in fumes; vent; discharge. (Chem.) The conversion of liquid or solid bodies into elastic vapors or gases, by means of heat. E. goes on slowly or rapidly according to circumstances. Water evaporates gradually at ordinary temperatures all over the surface of the globe. It rises in the air as vapor, and when condensed by change of temperature, forms rain or dew, and descends again to the earth. When, however, E. takes place rapidly, as in the case of ebuilition, it is generally called evororization. The quantity of vapor which rises from the surface of a liquid in the open air not only depends upon the quantity of surface exposed, but also on the state of the atmosphere at the time. In warm and dry weather, both in winter and summer, E. is greatest. It was found by Dr. Dalton that water raised to 212° evaporated at the rate of 4.244 grains per minute. Mercury does not evaporate till it is raised to 00° or 80°. Below that temperature the gravity of the constituent atoms is greater than their elastic forces. In all liquids whose boiling-points are high, the elastic force of the vapor is very small. The elastic forces of the vapors of most solid bodies are so low that they cannot be evaporated by the highest natural temperatures. The E. of a liquid is a cooling process to the liquid itself. This fact is made use of in India in order to produce ica. Water is exposed in shallow, unglased, earthen vessela, resting upon imperfectly conducting substances, such as sugar-canes, &c. During the dry clear nights & goes on, and a thin film of ice is formed. The cold produced by the formation of vapor may easily be observed by placing a cloth dipped in ether or alcohol on the budb of a thermometer. The mercury will

Evaporom'eter, n. An instrument to measure evap-

Evaporom'eter, n. An instrument to measure evaporation; a hygroscop; an atmometer.

Eva'sible, a. That may be evaded.

Eva'sible, a. [Fr. écasion; Lat. ecasio, from evado, evasus. See Evade.] Act of evading, eluding, or avoiding;

artifice to elude; shift; subterfuge; shuffling; prevari-

artifice to elude; shift; subterfuge; shuffling; prevarication; equivocation.

Evasisive, a. [Fr. érazif.] That evades; using evasion or artifice to avoid; elusive; shuffling; equivocating; containing evasion; artifully contrived to elude a question, charge, or argument.

Evasisively, adv. By evasion or subterfuge; elusively; in a manner to avoid a direct reply or a charge.

Evasisivemesa, n. Quality or state of being evasive.

Eve, n. [Heb. chard, life, from obsolete chara, to live.]

The consort of Adam, and the mother of the human race; so called by Adam because she was the mother of all living. so call living.

living.

Eve, or Even, n. [A. 8. acfen, acfyn; Ger. abend; altied to Sax. ebban, to obb, obbe; O. Ger. ebba, the retiring of the sea. Root Sans. ara, and apa, from. See Enn.] The departure of day; the latter part or close of the day, and beginning of the night. — The evening before a holiday. — The period just preceding some important event.

Evec\*tlom, n. [Lat. evecto, from eveho—e, ex, and reha, to carry.] A carrying out or away; a lifting or extoling; exaltation.

(Astron) An inequality of the moon's motion descend-

(Astron.) An inequality of the moon's motion, depending on the position of the transverse axis of the linar orbit in respect of the line of syzygles, or line joining the sun and earth. Eve'land, in *loss*, a P. O. of Mahaska co.

Evel and, in force, a P. O. of Mahaka co.

Evely m, in Missouri, a post-office of Macon co.

Even, a. [A. S. z/rs; Gael. ion, fit, right, allied to Lat.

zquaz, level, fair, equitable.] Having a surface one and
the same, or without inequalities; level; amooth; of an
equal surface; flat; free from elevations or depressions;
not rough or wavering; uniform; equal; equable; calm;

Digitized by GOQI

not easily ruffled or disturbed; level with; parallel to; equally favorable; equal on both sides; fair; just; owning nothing on either side; having accounts balanced; settled; balanced. —Capable of being divided into two equal parts without a remainder; not odd.

-r.a. To make even or level; to level; to lay smooth; to equalize; to place in an equal state, as an obligation, or in a state in which nothing is due on either side; to place accounts.

lelance accounts

balance accounts.

-adr. Equally; noting a level or equality; or emphatically, a like manner or degree; noting equality or sameness of time; hence, emphatically, the very time; noting, emphatically, identity of person; likewise; in a like manner; exactly; verily; so much as.

Evemen, anded, a. Impartial; equitable; just.

Evem-handed mess, s. State of being even-handed; justic: farness.

e: fairne

justice; fairness.

Eveming, m. [See Evz. Evzn.] The departure or parting of the day; the latter part and close of the day, and the beginning of darkness or night. — The decline or latter part of life. — The decline of anything (Script.) The Hebrews reckoned two evenings in each day; as in the phrase, "between the two evenings." (Ez. zii. 6; Nas. ix. 3; xxviii. 4, margin.) In this interval the passover was to be killed, and the daily evening sacrifice offered. (Ez. xxix. 39-41, Hebrew.) According to the Caraltea, this time between the two evenings is the interval from sunset to complete darkness, that is, the evening twilight. According to the Pharisees and the evening twilight. According to the Pharisees and the rabbins, the first evening began when the sun inclined to descend more rapidly, that is, at the 9th hour; while

the second or real evening commenced at sunset.

-a. Being at the close of day.

Evening-flower, n. (B.d.) A name common to many species of plants, the flowers of which expand at evening.

Evening-sechool, n. See School.

Even Keel, n. (Naut.) A ship is said to be on an even

keel when she draws the same water abaft as forward the expression, however, often implies, though inaccu-rately, not inclined to either side, or upright.

Evenly, act incinea to enter stat, or uprignt.

Evenly, adv. In an even manner.

Even. at an even manner.

Even. even. State of being even, level, or smooth;

equality of surface; uniformity; regularity; equal dis
equal to position; level
new of surface; impartiality between parties; equal respect; calmness; equanimity. Even-song, s. An evening song or hymn.

Thee, 'chantress oft the woods among, I wee to hear thy even-song." — Million

-The evening; the close of the day.
"He tun'd his notes both even-eong and m

"He ten'd his notes both even-cong and morn."—Dryden.
Evensville, in Tenn-cace, a post-office of Rhea co.
Evens', n. [Lat. evenius, from evento—e, ex, and vento, to come. See Ventura.] That which comes or falls out; that which comes, arrives, or happens; an incident; an occurrence; an adventure; the consequence of anything; that in which an action, operation, or series of operations terminates; issue; result; termination; conclusion.

Event'ful. a. Full of events or incidents; producing numerous or great changes, either in public or private

numerous or great changes, either in public or private affairs.

Even-tide, s. [Eccn, and Sax. tid, time.] The time

of evening; evening.

Eventila'tion, s. The art of supplying with air; **veutilation** 

ventilation.

Eventra'téom, m. [Lat. e, out of, and venter, the belly.]

(Med.) A tumor formed by a general ralaxation of the parietes of the abdomen, and containing a great part of the abdominal viscera. Also, ventral hernita, or that which occurs in any other way than through the natural openings of the abdominal parietes. Lastly, any very extensive wound of the abdominal parietes, with issue of the greater part of the intentions.

tensive wound of the abdominal parietes, with issue of the greater part of the intestines. Event'unal, a. [Fr. &cestuck.] Coming forth or happen-ing as a consequence or result of anything; consequen-tial; final: terminating; ultimate. Eventunal Its., s. (Phres.) A propensity to take cog-nizance of facts or events.

Event'ually, ads. In the event; in the final issue.

Event'uate, v. n. To happen; to issue; to take effect;

to terminate. Syver, e.fr., always; d. aa, aye, for ever; forer, e.fr., always; d. aa, aye, for ever; Lat. evem; Gr. aión, a space or period of time, eternity; Sansk. dyws, an age, the period of life, from i, to go.] Through or during life; through the period of life; at all times; always; perpetually; everlastingly; incesantly; ontinually; unceasingly; constantly; at any time; at any period or point of time, past or future; in any decree Eve

any degree.
Everberg, a town of Belgium, 22 m. from Tournay;

pp. 5,742, a town of Belgium, 22 m. from Tournay; pp. 5,742. LEXANDER HILL, an American diplomatist and author, z. in Boston, 1792. Ho began life as a tutor in an academy, but afterwards entered into the office of John Quincy Adama, as a student of the law. In 1809 he went to Russia as an attaché of the mission of Mr. be went to Russia as an attaché of the mission of Mr. Adama and spent two years in St. Petersburg, studying political economy, and making himself acquainted with the modern languages. On returning to America, he connected himself, in Boston, with both law and literature. From 1818 to 1824 he served as charge d'affaires and, in 1824, published a work entitled Europe, or a General Survey of the Principal Powers, &c., which was highly spoken of. In the following year he published another, which entered into a consideration of the Godwin and Malthusian theories of population. In 1825 he became American minister at the court of Spain, which

he held for nearly five years, during which he continued to devote himself to his studies, and produced a political avon, 14 m. from Worcester. Manf. Stockings. Pop. 5, web. work entitled America, or a General Survey of the Political Situation of the several Powers of the Western Conunical Situation of the several Process of the Western Con-tinent, whilst, at the same time, contributing to the North American Review, then under the editorship of his brother. In 1841 he was chosen president of Jef-ferson College, Louisiana, and, in 1846, minister pleni-potentiary to China. D. at Canton, 1847.

Ev'erett. EDWARD, an American statesman, orator, and Everest. Edward, and American statesman, orator, and author, a younger brother of the above. B. at Dorchester, Massachusetts, 1794. He studied divinity with a view to the office of pastor, and became, before he was twenty, minister of a large Unitarian congregation at Boston. In 1816 he relinquished the pulpit for the pressional chair of the Greek Language and Literature in Harvard University. Previous to his entering upon his duties, he visited Europe, and for two years settled at Göttingen, studying German, and making himself acquainted with the best modes of instruction adopted in the German universities. After a sojourn of five years, during which he visited various European countries, he returned to America, and entered upon his university during which he visited various European countries, he returned to America, and entered upon his university duties with large stores of accumulated learning and knowledge. In 1820 he added to the duties of his chair those of editor of the North American Accuse, which he continued to perform for four years. In 1824 he was elected to the House of Representatives, and, in 1836, became governor of Massachusetts. In 1841 he was appointed minister to the English court, which post he held for about five yes. 19, and, on his return, was elected president of Harvard University, which he was subsequently compelled to resign on account of ill-health. In 1833 he was elected a member of the Senate for Massachusetts. Throughout his career, Mr. Everett evinced chusetts. Throughout his career, Mr. Everett evinced an ardent attachment to literary pursuits, and published two volunes of orations, delivered by him on various occasions. He also appended, to the works of Daniel Webster, a life of that statesman. Died 1865.

Ev'erest, in Massachusetts, a post-town of Middlesex co., 3 miles from Boston, connected with it by street railway. Has 8 churches, Young Ladies' Seminary; iron works, chemical works and numerous other manufactories. Pop. (1805) 18,573.

Everett, in Missouri, a post-village of Cass co., about 45 m. S. by E. of Kansas City.

Ev'ergetes, a. A name given to many kings in ancient times, and signifying besspiactor.

Everghem (ev'ergeiss), a town of Belgium, 3 m. from chusetts Throughout his career, Mr. Everett evinced

times, and signifying benefactor.

Everghem (ever-gains), a town of Belgium, 3 m. from Ghent; pop. 8,800.

Everglade, a. A low marshy tract of country, inundated with water, and interspersed with patches or portions covered with high grass, as in Florida.

Evergreen, a. Always green; verdant throughout

Evergreem, a. Alvays source, the year.

—a. A plant the leaves of which remain perfect upon a stem beyond a single season; as the Holly, the Fir, and the Ivy.—Opposed to deciduous.

Evergreem, in Alabama, a post-village, cap. of Conecult co., about 110 m. S.S.W. of Montgomery.

Evergreem, in Arkansas, a post-office of Washington co.

Evergreen, in *Iowa*, a post-office of Tama of

Evergreen, in Iosa, a post-office of Tama co.
Evergreen, in Lonisiana, a P. O. of Avoyelles parish.
Evergreen, in Michigan, a twuship of Montcalm co.
Evergreen, in Taza, a post-office of Sau Jacinto co.
Evergreen, in Virginia, a P. O. of Appomattox co.
Evergreen, in Virginia, a P. O. of Appomattox co.
Evergreen, in Nowo Jersy, a post-village of Hunterdon co., abt. 11 m. W.N.W. of Flemington.
Everlateville, in N. Curolina, a village of Wayne co., on the Neuse River, abt. 50 m. S.E. of Raleigh.
Everlast'ing, a. Lasting or enduring for ever; continuing without end; eternal; immortal; endless; uncassing; continual; perpetual; continuing indefinitely, or during the present state of things.

—a. Eternity; eternal duration, past and future; something which lasts or endures for a long time.

—The Eternal Being.

(Bot.) A genus of plants. See GNAPHALIUM.

E flowers. Certain flowers, chiefly of the Asteraces, whose hard tissue and deficient moisture enables them to retain their color for several months after being gathered.

gathered

Everlast'ingly, adv. Eternally; perpetually; con tinually.

thually.

Everlasting ness, n. Eternity; perpetuity.

Everlasting ness, n. (Bot.) See Lathtrus.

Everlasting ness, n. (Bot.) See Lathtrus.

Everliving, a. Living without end; eternal; immortal; having eternal existence.

Everric'ulum, n. [Lat., from everro, to sweep out.]

(Surp.) An instrument for removing fragments of stone, &c., from the bladder, after the operation of lithotomy.

Ever'sion, n. [Lat. eversio, from everto, to turn out, to overturn, eversus—e, ez, and verto, to turn. See VES-

Ever'siom, n. [Lat. eversio, from everto, to turn out, to overturn, eversus—e, ex, and verto, to turn. See Version.] An overthrowing; destruction; subversion.

Ever'sive, a. That tends to overthrow.

Evertom, a. Lat. everto.] To destroy; to overthrow.

Ev'ertom, a townssip of England; it is a suburb of Liverpool; pop. 30,000.

Ev'ertom, in Indiana, a post-village of Fayette co., abt. 25 m. 8.8.W. of Richmond.

Ev'ery, a. [O. Eng. everich; Sax. afre, ever, and sic, each.] Each one; each individual of a whole collection or aggregate number; all taken separately.

Ev'ery-day, a. Used or being every day; common; usual.

EVIL

Evice', e. a. [Lat. evince, evictum—e, ex, and vince, to overcome. See Victors.] (Law.) To disposees by a judicial process or course of legal proceedings; to recover, as lands or tenements by law; to take away by sentence of law

sentence of law.

Zvic'tlom, n. [L. Lat. evictio.] (Law.) Dispossession by judicial sentence; the recovery of lands or tenements from another's possession by due course of law.

Zv'idence, n. [F. évidence, from Lat. evidentia—e, ex, and viden, to see. See Vision.] That which makes clear and distinct; that which elucidates, and enables the mind to see truth; testimony; proof arising from our own perceptions by the senses, or from the testimony of others, or from inductions of reason.

mony of others, or from inductions of reason.

(Law.) All the means by which any alleged matter of fact, the truth of which is submitted to investigaof fact, the truth of which is submitted to investigation, is established or disproved. All that which is
legally submitted to a jury, to enable them to decide
upon the question in dispute or issues, as pointed out
by the pleadings, and distinguished from all comment
and argument, is termed evidence; as a public document, a judicial writing, a deed, a contract, a will, the
testimony of a witness, &c.

— a. To make clear; to elucidate; to evince; to prove;
to make clear to the mind; to show.

Evidemt, a. [Fr.; Lat. evidens.] Visible; clear; obvious; plain; manifest; open to be seen; clear to the
mental eye.

Evidem'tianly, adv. In an evidential manner.

Evidem'tianly, adv. In an evidential manner;
plainly;
clearly; manifestly; certainly; notoriously.

Ev'idently, ab. In an evident manner; plainly; clearly; manifestly; certainly; notoriously.
Ev'identness, n. State of being evident or manifest.

Ev'ildentness, m. State of being evident or manifest.

E'will, a. [Sax. yfel; Du. ewel; Ger. übel; Goth. ublis; probably from Sans. av, from ap, from, noting departure from, separation = Gr. apo, Lat. ab, Goth. af; arama, vile, abject; thus, apa—mana, dishonor—upa, from, and mana, honor; lieb. chabal, to spoil, to destroy; Gr. ollümi, to destroy, to make an end of.] Not well; not good; having bad qualities of a natural or moral kind; bad; ill; nitschievons; perniclous; injurious; shurtful; wicked; corrupt; destructive; wrong; vicious; sinful; unhappy; unfortunate; calamitous.

—n. That which is not well or not good; anything which produces pain. suffering. distress. loss. or calamity:

-a. That which is not well or not good; anything which produces pain, suffering, distress, loss, or calamity; larm; mischief; misfortune; ill; injury; calamity; wrong; depravity; wickedness; malignity; sin: malady:—in a word, the antithesis or negative of good. (Phil.) Evil is want of conformity to the standard of good, whatever that may be: in the concrete, evil is anything that comes short of what is perfectly good. A very superficial view of things as they exist in this world is sufficient to convince one of the existence of evil; i. e. that all things come short of our ideal of goodness and perfection. E is usually divided into physical and moral—the former including whatever is opposed to good in the sense of happiness; the latter, whatever is opposed to good in the sense of virtue. The question concerning the origin of E has exercised the ingenuity of speculative men from the earliest times, and various theories have been proposed. The oldest and most widely spread of these is the dualistic, which supposes two opposite agencies or co-eternal and independent widely spread of these is the dualistic, which supposes two opposite agencies or co-eternal and independent principles, the one the author of all the good, the other of all the evil in the universe. This doctrine prevails in the heathen systems of the East, and was also held by the Manichesans and others. A favorite hypothesis among the ancient philosophers was that of pre-existence; according to which, the evils which we suffer at present are punishments and explations of moral delinquencies committed in a former stage of our being. The doctrine of optimism supposes that all events are ordered for the best, and that the evils which we suffer are parts of a great system conducted by simighty power under the direction of infinite wisdom and goodness. This comprises two very different classes of phiness. This comprises two very different classes of phi-losophers — those who admit and those who deny the freedom of human actions and the accountableness of losophers — those who admit and those who deny the freedom of human actions and the accountableness of man as a moral agent. None of these modes of solving the difficulty appears satisfactory, and the Rible throws little light upon the subject. The Bible, however, fully authorizes the only conclusions to which reason can safely come on this dark subject, vis. 1. That God is not the author of evil in any sense; 2. That, though able to prevent it, he has permitted it to exist; 3. That the evil permitted in the universe is not only less than the good directly willed by God, but is characterized as something intrusive and transitory, while the good is something fundamental and permanent; 4. That God, in permitting evil, has not left it uncontrolled, but ever holds it in his power and makes it subservient to his purposes; 5. That he will ultimately overrule the evil which he has permitted; and, in fine, that all that is perplexing to us in the existence of E arises out of the limitation of our understanding; that the phenomenon of E, which to us is so full of difficulty, may by higher intelligences — must by the highest — be seen to be in perfect accordance with the noblest order and the purest rectifude.

Fixed E adm. Not well: ill; not with instice or propriety.

E'vil, adv. Not well; ill; not with justice or propriety;

not virtuously; unsuitably; not innocently; not happily; unfortunably; injuriously; not kindly, Evil-doer, s. One who does evil; a malefactor; a wrong-doer. Digitized by GOOGLE

E'vil-entreat', v. a. To treat with injustice; to in-

E-Vall-e-value et al. 10 treat with injustice; to injure; to abuse.

E-Vall-e-ye, n. A malignant influence, superstitiously ascribed to certain persons, in virtue of which they are supposed to injure those on whom they cast an envious or hostile look. — A look expressive of malice, jealousy,

or envy.

E'vil-fa'vered, n. Of ill countenance or appearance.

E'vil-Mer'odach, the son of Nebuchainersar, and father of Beishaxar.

E'vil-minded, a. Having evil dispositions or intentions; disposed to mischief or sin; malicious; malignant; wicked.

West Manutain, in Maryland and Pensylvania, and Maryland.

nant; wicked.

Evil Mountain, in Maryland and Pennsylvania, an elevated ridge extending from Alleghany co., Maryland, to the central part of Bedford co., Pennsylvania.

Evilness, n. State of being evil.

Evil-speaking, n. Slander; defamation; calumny; cancerlounces.

ensorionaness

censoriousness.

Evil-worker, n. One who does evil.

Evimee', e. a. [Lat. evinco—e. ex, and vinco, to vanquish, to overcome.] To show in a clear manner; to prove beyond any reasonable doubt; to make evident; to demonstrate; to manifest; to argue.

Evinee'mment, n. Act of evincing (n.)

Evine'cible, a. That may be evinced or proved; capable of proof; demonstrable.

Evine'dablay and In a manner to force conviction.

Evince'ment, n. Act of evincing. (n.)

Evin'cible, a. That may be evinced or proved; capable of proof; demonstrable.

Evin'cibly, adv. In a manner to force conviction.

Evin'cive, a. Tending to evince or prove; having the power to demonstrate.

Eviscerate, v. a. [Lat. eviscero, evisceratus—e, ex. and viscera, the entrails.] To take out the entrails or bowels of; to embowel or disembowel.

Evisceration, n. [L. Lat. evisceratio.] Act of eviscerating, or taking out the bowels.

Evitable, a. [Lat. eviatius.] Avoidable.

Evication, n. [Fr. évocation.] The act of evoking or calling forth. (n.)

Evocation, n. [Fr. évocation.] The act of evoking or calling forth or out; to summon forth; to call from one tribunal to another; to remove.

Evolat'se, Evolat'ieal, a. [From Lat. e, from, and volo, to fly.] Apt to fly away; flying about.

Evolation, n. Act of flying away.

Evolute, n. [Lat. evolutus, part. of evoleo, I roll out.] (Geom.) If a perfectly flexible and inextensible string be conceived to be wrapped around any plane curve, then, on unwrapping the same under tension, each point of the string, therefore, have the same evolute; they constitute a series of parallel curves, which are said to be the evolute. The curve described by the several points of the string, therefore, have the same evolute; they constitute a series of parallel curves, which are said to be involutes of the curve by whose evolution they are generated. The nature of evolute was first considered by Huyghens, who showed that the evolute to a common cycloid is another equal cycloid, a property of that curve which he employed in making a pendulum vibrate in a cycloid. To describe the involute of a circle, proceed as follows: Let a be the centre of the circle, and b the extremity of the string to be unavound from its circumference. Divide the circle, or part of the circle, according to the length of curve required, into any number of equal parts, as c. d., 2.c.; through these, from a draw radial lines; from the points wound from its circumference. Divide the circle, or part of the circle, according to the length of curve required, into any number of equal parts, as c, d, e, d. ; through these, from a, draw radial lines; from the points where these touch the circle, draw, at right angles to the lines ac, ad, dc., other lines, as in the diagram. With the distance cb as radius, from the point c, describe an arc b1, cutting the line c1 in 1. From the point d, with d1, describe an arc 12, cutting the line d2 in 2. From c, with c2 describe an arc 23, cutting the line c3 in 3. With radius c3, from c3, describe an arc c3, cutting c3 in the point c4. Proceed in this way,

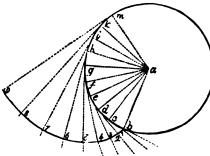


Fig. 977.

consisting arcs which pass through the points 5, 6, 7, 8, and 9. The involute will thus be formed.

Evolutions, n. [Fr. &colution, from L. Lat. &colution, from &colon, &colution = e, ex., and wolwo, to roll. See Volutial.] An unfolding, unrolling, or unwinding; a development; a series of things unrolled or unfolded. (Arith. and Algebra.) The extraction of roots; in other words, the inverse operation to involution. The object of involution. therefore, is to ascertain the quantity which, multiplied by itself a stated number of times, yields a given result.

yields a given result.

(Physicl.) That theory of generation in which the germ is held to pre-exist in the parent, and its parts to be unfolded and expanded, but not actually formed, by the procreative acts. The principal and most consistent

supporters of this theory maintain that the first created individuals contained the germs of all future possible successors, successively included one within the other; and that generation is merely the act of unfolding, or an evolution of the germ: Swammerdam, Bonnet, Spallansani, Haller, and Cuvier maintain this theory. The theory of evolution is opposed to that of epigenesis generation, in which the germ is held to be actually formed as well as expanded by virtue of the procreative powers of the prent. This topic will be further discussed in Section II. See also: DARWINIAN THEORY; DESCENT OF MAN: DEGENERATION OF ORGANISMS, &c. pt. (Mil.) The movements by which troops change the order, position, and direction of their primary formation. All evolutions are performed according to a regulated system, which differs in its details in the armies of various nations; though in all of them simplicity, facility, and rapidity of movement are the points aimed at.

Evolutionary, a. Pertaining to evolution.

Evolutionary, a. Pertaining to evolution.

Evolutionist, n. One skilled in the more complicated military movements.

cated military movements.

Evolve', v. a. [Lat. evolvo — e, ex, and volvo, to roll.]

To unfold, unroll, or unwind; to develop; to disclose; to open and expand; to throw out; to emit; to follow out and detect through intricacles; to unrave; to make the control of the control

evolved.

Evol'vent, n. (Geom.) The curve or involute resulting from the evolution of a curve.

Evol'a, a fortified town of Portugal, prov. Alentejo, 85 m. from Lisbon; pop. 11,000.

Evreux, (e'cre(r,) a city of France, cap. of department Eure, on the Iton, 80 miles W.N.W. of Paris. Manuf. Cotton twist, woollen and cotton fabrics. Pop. 13,884.

Evul'sion, n. [Lat. evulsio, from evello, evulsis — e, ex, and cello, to pluck.] Act of plucking or pulling out by force.

Ewal'sion, n. [Lat. evulsto, from eveno, courses and vello, to pluck.] Act of plucking or pulling out by force.

Ewald, George Heinrice August von, a German orientalist, B. at Göttingen, 1803. After a course of education in the college and university of his native town, he devoted himself to the study of Oriental languages; at the age of twenty he was nominated professor at the College of Wolfenbüttel; in 1824 he was recalled to Göttingen, where he settled, and where he was appointed, in 1831, to the chair of Philosophy, and afterwards to those of Oriental Languages and Theology, which he held, when, in 1837, the present king of Hanover having ascended the throne, the protest of Dahlmann, the two Grimms, Gervinus, Weber, and others, against the policy of the new government, appeared. Having signed it with the rest, he was suspended from his professorahips, quitted Göttingen, and spent some years in examining the libraries of England and France. In 1838 he accepted the chair of Theology at the University of Tubingen, where he remained until the revolution of 1848 recalled him to his old functions in his native town. About this time he published a pamphlet On my Departurs from the University of Tubingen, with some Considerations upon the Present Epoch. Prof. Ewald has written The Composition of Genesis, published in 1823; Upon the Metres of Arabic Poetry, in 1825; The Song of Songs, in 1826; A Critical Grassman of the Hebrea Language used in the Old Testament, in 1835; A Hebree Grassman, in 1842; History of the People of Israel up to the Advent of Carist, in 1845–60; several other works, and a great number of scientific reviews. D. 1875.

Ewald, Johannes, an eminent Danish poet, was the son of a clergyman, and B. at Copenhagen 1743. Having lost his father while young, and deliking the clerical life, he left his home when but 15 years of age, and en-

and a great number of scientific reviews. D. 1875.

E'wald, JOHANES, an eminent Danish poet, was the son of a clergyman, and B. at Copenhagen 1743. Having lost his father while young, and disliking the clerical life, he left his home when but 15 years of age, and enlisted in the Prussian army. Deserting to the Austrian service, he was made a sergeant, but not being able to obtain his discharge when he wished, he deserted again and returned to Denmark. He now pursued a literary life with great ardor, and produced several very excellent works; that to which he owed his earliest distinction as a poet, was the Temple of Fortune. His masterplece is the dramatic poem entitled Badder's Dadth, published in 1773. His Songs of the Scalds, and other pieces after the manner of Ossian, gave him great reputation; and he may be said to have surpassed all preceding Danish poets in spirit and originality. Died 1781.

Ew'am's Mills, in New Jersey, a P. O. of Gloucester co. Ewe, (u.) n. [Sax. covur; Lat. oviz; Gr. oiz; Sansk. avi, a sheep.] A formale sheep.

Ewe., (Leoch.), an inlet of the North Sea, in Rosshire, Scotland, connected with Loch Marce by a short river.

Ewer, (u'er.) n. [Sax. huer, or hver, a ewer, a kettle; O. Fr. causer, a gutter, a channel, or sewer, for carrying off water; ever, to water, from eas, water; Sax. ea; Pers. ab.] A kind of pitcher or vessel for holding water, which accompanies a wash-hand basin.

Ew'ing, THOMAS, L..D., an American statesman and jurist, B. in Ohio co., Virginia, 1789, was the son of an officer who served during the revolutionary war. He evinced at an early age a great passion for books, and when twenty years old left home and worked in the Kanawha sait establishment, until he saved up money to enter Ohio University, where he obtained the degree of B. A. in 1815. He was admitted to the Bar in 1816, was appointed U. S. seastor in 1831, and espousing the interests of the Whig party, became associated with Clay

of B. A. in 1815. He was admitted to the Bar in 1816, was appointed U. S. senator in 1831, and espousing the interests of the Whig party, became associated with Clay and Webster in their resistance to the so-called encroschments of the Executive. He supported Mr. Clay's Protective Tariff Bill, and opposed the nomination of Mr. Yan Buren as envoy to the English court. In 1837, his senatorial term having expired, Mr. Ewing resumed the practice of his profession. In 1840 he supported the election of Gen. Harrison to the presidency, and became election of Gen. Harrison to the presidency, and became Exalt', v. a. [Fr. éxalter; Lat. exalto—ex. and altus,

Secretary of the Treasury, a post in which he was retained by President Tyler, but afterwards resigned. Having held other official posts, in 1851 Mr. Ewing retired from political life, and devoted himself to the practice of his profession. D. 1871.

Ewing, in Arkansas, a township of Boone co.

Ewing, in Islainsa, a post-office of Franklin co.

Ewing, in Islainsa, a post-office of Jackson co.

Ewing, in Kentacky, a post-office of Fleming co.

Ewing, in Normaka, a post-office and township of Holt co.

Ew'ing, in New Jersey, a flourishing township of Mer-

cer co.

Ew'ing, in Ohio, a post-village of Hocking co., about 32 m. E. N. E. of Chilicothe.

Ewingford, in Kentacky, a post-office of Trimble co.

Ew'ington, in Kentacky, a P. O. of Montgomery co.

Ew'ington, in Minnecota, a township of Jackson co.

Ew'ington, in Ohio, a post-office of Gallia co.

Ew'ington, in Ohio, a post-office of Gallia co.

Ew'ington, in Ohio, a post-office of Gallia co.

Ew'ny, n. An office in the household of the kings of Kngiand, where they take care of the linen for the king's table, lay the cloth, and serve up water after dinner.

Ex. a Latin preposition or prefix signifying out of cost

Ex, a Latin preposition or prefix, signifying out of, out, proceeding from, and sometimes implying off, from, or out. In some words it is merely emphatic; ex, prefixed to names of office, denotes that a person has formerly held that office, but has resigned, been deposed, abdiested, or dismissed, as ex-chancellor, ex-minister. When prefixed to a functionary, it becomes a legal term, as exglicio, or by virtue of his office. Thus, in England, all justices of the peace are ex-officio members of the board of guardians in the union in which their jurisdiction lier Exmeerbacte, (ex-air-bact,) v. a. [Lat. exacrito, exacrbatus—ex, and acerbo, from acerbus, harsh, sharp, sour. See Acers.] To make harsh, sharp, or sour; to exasperate; to imbitter; to irritate; to provoke; to incense; to inflame; to increase the malignant qualities of; to increase the violence of a disease.

Exmeerbaction, Exmeerbactic emec., n. [Fr.; from L. Lat. exacrito according to the irritation of angry or malignant passions or qualities; increase of malignity.

(Med.) A periodical increase of violence in a disease.

Exmedination, n. Act of exacinating.

Exmedination, n. Act of exacinating.

Exmedination, See the verb.] Done or performed thoroughly; strictly accurate; closely correct or regular; scrupulously careful; conformed to rule; methodical; nice; strict; careful; punctual; precise; accurate; true.

—v. a. [Lat. exigo,exactus—ex, and ago, to move, to drive,

true.

v. a. [Lat. exigo.exactum — ex, and ago, to move, to drive, to lead, to do, to act, to labor. See Acr.] To drive or thrust out; to force out or from; to enforce; to force or compel to pay or yield; to demand or require authoritatively; to extort by means of authority; to demand of right; to claim; to enjoin; to compel; to enjoin with pressing urgency.

v. n. To practice extortion.

with pressing urgency.

v. n. To practise extortion.

Exact'ing, p. a. Demanding and compelling; requiring authoritatively; extorting; compelling by necessity.

Exact'ion, n. [Fr., from Lat. exactio.] Act of exacting or of demanding with authority, and compelling to pay or yield; authoritative demand; a driving to compliance; extortion; a wresting from one unjustly; that which is exacted; tribute, fees, rewards, or contributions demanded or levied with severity or injustice.

Exact'itude. n. Exactness: nicety. (R.)

which is bettered; thoute, tees, rewards, or contributions demanded or levied with severity or injustice.

Exactitude, n. Exactness; nicety. (g.)

Exactivess, n. In an exact manner; precisely; nicely; accurately; correctly.

Exactivess, n. Quality of being exact; accuracy; precision; nicety; regularity; careful observance of method and conformity to truth.

Exactives, n. Itat.] One who exacts; an extortioner; one who compels anothor to pay more than is legal or reasonable; he who demands by authority; one who is unreasonably severe in his demands.

Exactivess, n. She who exacts.

Exactivess, n. She who exacts.

Exactivess, n. [Lat., from ex, from, and ego, to drive.] (Bot). A group of plants, order Gentianacess. Some species have medicinal properties.

Exæctivess, n. (Gr., a taking away.) (Surg.) One of the divisions of surgery adopted by old writers, and confined to operations concerned in the removal of parts of the body. the body

the body.

Exaggerate, (egs-aj'er-ale,) v. a. [Fr. éxagerer; Lat. exaggero, exaggeratus—ex, and aggero, aggeratus, from aggero, to bear to a place—ad, and gero, to bear, to carry. See Gestation.] To heap on or upon; to enlarge by heaping up; to accumulate; to heighten; to enlarge beyond the truth; to amplify; to represent as greater than strict truth will warrant; to depict or delineate extravagantly.

depict or delineate extravagantly.

Exaggerated, p. a. Heaped up; enlarged or amplified beyond the truth.

Exaggeration, n. [Fr. Exagtration; Lat. exaggeratio.] A heaping or damming up; heap; accumulation: amplification: a representation of things beyond the truth: byperbolical representation; representation or delineation of things too strong for the life.

Exaggerative, a. [Fr. Exagtratif.] Having the power or tendency to exaggerate.

Exaggeration. 4. Tending to exaggerate

Digitized by GOOQ

grown or become great by nourishing; high; elevated; Exas/perated, p. a. Highly incensed or irritated; letty, from als, to nourish. See Altitude. To raise this, to lift up; to elevate; to raise to power, wealth, it is collected; to refine the sublime.

(Chem.) To purify; to subtilise; to refine.

Exas/perater, n. One who exasperates.

Exas/perater, n. One of Richland co.

—A township of Sauk co. 6 miles N. of Baraboo.

Exas/perater, n. One who exasperates.

Exas/perater, n. One of Clay co.

on C. M. & St. P. R. R., 25 m. N.E. of Kansas City. Has a medicinal spring of considerable value. Pop. (1897)

about 2,00.

Exacple stored in the control of the contro

(Ches.) To purify; to subtilise; to refine.

Exaltado, n. A term which, in the reigns of Ferdinand and Isabella, was applied in Spain to the liberal

nand and maceta, was apputed in openit of the florial or progressive party.

Exalias'tiem, n. [Fr. £xallation, from L. Lat. exallatio.] Act of exalting or raising on high; elevation to power, office, rank, dignity, or excellence; elevated state; state of greatness or dignity.

(Chem.) The refinement or subtilization of bodies, or

office, rang, inguity, or exemence; severed exacts, state of greatness or dignity.

(Chem.) The refinement or subtilization of bodies, or their qualities and virtues.

E. of the cross. (Eccl.) A Roman Catholic feast, celebrated on September 14, to commemorate the restoration to Calvary, in 628, of the Cross, which had been carried off fourteen years before by the Persian king Chosroes. Exalted, p. a. Raised to a lofty height; elevated; honored with office or rank; extelled; magnified; refined; displicitly environments.

honored with office or rank; extolled; magnified; refined; dignified; sublime.

Exalt'ediness. n. State of being exalted or raised.

Exalt'er, n. One who exalts.

Exammen, (egr-d'men,) n. [Lat.] Examination; a scrutiny; inquiry.

Examm'mable, a. That may be examined; proper for judicial examination or inquiry.

Examm'mable, a. I. Lat. examinatio.] Act of examining; careful observation or inspection; close inquiry into facts, circumstances, qualifications, &c., by interrogation; scrutiny by study or experiment; investigation; search; research; trial; scrutiny; inquisition—In colleges and universities, the mode of ascertaining the nature and extent of one's attainments.

Exams'matter, n. An examinet. (0.)

the nature and extent of one's attainments. Exams'inster, n. An examiner. (e.) Exams'inster, n. An examiner. (e.) Exams'inster, n. (Fr. examiner, Lat. examine, from causes, probably for exagines, the tongue or beam of a balance—ex, and ago, to set in motion, a balance being necessarily put in motion in the process of weighing. Sex Acr.) To weigh; to balance; to try by experiments, or by rule of law; to inspect or observe carefully; to search or inquire into; to interrogate, as a witness, a student, &c.; to put questions to; to try by questioning; to search; to scrutinize; to investigate; to explore; to discuss: to try.

discus; to try.

Examinee', s. One who is examined.

Exam'iner, s. One who examines, tries, or inspects one who interrogates a witness or an offender.

Exame'ining, p. a. Inspecting carefully; searching or inquiring into; interrogating; trying or assaying by experiment; having power to examine; appointed to

Exam'ple, n. [Fr.; Lat. exemplum, from eximo, to take Exams ple, n. [Fr.; Lat. exemplum, from eximo, to take out or away, to remove—ex, and emo, to take, to receive, to buy, to purchase. See Sample.] That which is taken out of a larger quantity, as a sample to be shown to a bayer; a sample: a pattern; a copy; a model; he or that which is proposed to be imitated; a precedent to be followed or avoided; a precedent to serve as a warning or admonition; a precedent which disposes to imitation; a particular case or proposition illustration agreemal rule, position, or truth; an instance; an exemplification; an illustration. emplification; an illustration.

Exam'gulous, a. [Lat. ex, priv., and angulus, an angle.]

no corners.

Exam'imate, a. [Lat. examinus.] Deprived of life

Examima'tion, n. [Lat. examinatio.] State of being

Ex am'imo. [Lat., from the mind.] Sincerely; earnest

ly; zealously. Exam'thalose.

thalose, s. (Mis.) A white efflorescence, such sults from the exposure to the air of GLAUBER's

Exanthe'ma, n.; pl. Exanthem'ara. [Gr., a flower.] (Med.) Exanthem

Exanthematic, Exanthemiatous, a. Pertain

Examthemat'ic, Examthem'atous, a. Pertaining to examthem; pustulous; eruptive.

Examthe'sis, n. [Gr.] (Med.) A cutaneous efforescence; an efforescent eruption of the skin.—See Examthesis.

Ex'arch, n. [Gr. exarchos.] (Hist.) The title of the viceroys of the Byzantine emperors in the provinces of Italy and Africa after they had been reconquered by Justinian. The exarch of the former province fixed the seat of his government at Ravenna. They were also styled patricians. The exarch of a diocese was at fixt on a par with the primate. The term was also applied in the Eastern Church to the general or superior over several monasteries; and it since further denotes the deputy of the patriarch, whose duty it is to visit the churches and clergy in the provinces allotted to him.

Ex'archate, n. The office or government of an exarch.

arch.

Exam'illate, a. [Lat. ex, priv., and Eng. ard.] (Bot.)

Applied to plants without an ard.

Exam'ieula'tieu, n. [Lat. ex, from, and articulus, a joint.] Dislocation of a joint.

Exam'perate, v. a. [Lat. exaspero, exasperatus—ex. and appero, from asper, rough, harsh. See Aspiratz. To make rough or harsh; to make sharp or bitter; to joint.] Dislocation of a joint.

Examperate, v. a. [Lat. exaspero, exasperatus—ex, and apero, from asper, rough, harsh. See Asperate.

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Example of the superior attainments; choice; primo; valuable; exquisite; transcendent.

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Example of the superior attainments; choice; primo; valuable; primo; valuab

maliguity.

maliguity.

Excesses Fig., n. [Lat. excess, to make blind.] (Bot.) A genus of plants, order Euphorbiaese. The E. agallochum is a small tree with acrid milky juice, which if it gets into the eyes causes blindness. The wood is sometimes used as firewood, but the smoke from it is said to cause intolerable pain in the eyes. The greater part of the species are West Indian or S. American.

Excandes'cemee, Excandes'cemey, n. [From Lat. excandes'c, excandescan, to take fire.] State of growing hot.—State of growing angry.

Excandes'cemet, a. Very hot; white with heat.

Excarma'tion, n. [Fr.] The act of divesting, or the state of being divested, of fiesh;—opposed to incarnation.

(Anal.) A mode of making anatomical preparation which consists in separating injected vessels from the parts in which they are situate. This is done by means of corrosion by an acid, or by putrefaction.

Excarmificate, v. a. [Lat. excarmifico, to tear the fiesh to pieces.] To clear from fiesh.

Excarmification, n. Act of clearing from fiesh;

excarnation

Ex carnation.

Ex cathe'dra, (eks ka-the'dra,) adv. or a. [Lat. ex, and cathedra, from tr. kathedra, a chair. See Cathedral.]

From the chair, as of authority or instruction; with authority or dogmatism; with an air of official authority.

Ex'cavate, v. a. [Lat. excavo, excavatus—ex, and cavo, from cavus, hollow. See Cave.] To hollow out; to cut, dig, scoop, or wear out the inner part of anything to make it hollow.

Ex'cavated, p. a. Hollowed out; made hollow.
Ex'cavating, p. a. Hollowing out; making hollow;
making, or capable of making, an excavation; as, an
ezcavating machine.

Exeavating, p. a. Hollowing out; making hollow; making, or capable of making, an excavation; as, an excavating machine.

Exeavating machine.

Exeavating machine.

Exeavating, n. (Int. excavatio.) Act of hollowing out or making hollow; a hollow or cavity formed by removing the interior substance.

Exeavating.

Exeavating.

Exeavating.

Exeavating.

To go out or away from; to depart from; to pass or go beyond; to proceed beyond any given or supposed limit, measure, or quantity, or beyond anything else; to surpass; to excel; to outgo; to transcend; to outdo; to outvie.

—. n. To go too far; to pass the proper bounds; to go over any given limit, number, or measure; to bear the greater proportion; to be more or larger.

Exeavating, p. a. Going beyond; surpassing; outdoing; excelling.

—a. Great in extent, quantity, or duration; very large.

—a. Great in extent, quantity, or duration; very large.

—a. In a very great degree; unusually.

Exeavating, p. a. [Lat. excello—ex, and obs. cello; Gr. kello, to impel, to urge on; whence Lat. celsus, driven to a high place, raised high.] To rise high above; to go or leadove; to surmount; to exceed; to surpass; to go beyond; to transcend; to outdo.

—v.n. To mount up; to soar aloft; to have good qualities, or to perform meritorious actions in an unusual degree; to be eminent, illustrious, or distinguished.

—v.n. To mount up; to soar aloft; to have good qualities, or to perform meritorious actions in an unusual degree; to be eminent, illustrious, or distinguished.

—v.n. To mount up; to soar aloft; to have good qualities in an unusual or eminent degree; superiority in dignity or in the scale of existence; preëminence; supereminence; greatness; that in which any one excels; any good or valuable quality in persons or things; worth; purity; goodness; virtue.

—A title of honor given to persons in high official situations, now restricted to excellency.—This title was first borne by the Lombard kings, and afterwards assumed by several emperors of the West. It was afterwards transferr from one member of a family to another, but always belonging to the office. In Europe it is borne only by ministers in actual service, by the highest court and military dignitaries, and by ambassadors and plenipotentiaries. Governors of English colonies also receive the title of E. In this country, the governor of Massachusetts receives the title by a provision of the constitution of that State; it is often, however, applied popularly to the President and to the governors of the other States. Ex'cellemi, a. [Fr., from Lat. excellens.] Rising above or surpassing in dignity, value, worth, or virtues, or in great and good qualities; eminent or distinguished for what is amiable, valuable or laudable; being of great value or use; remarkable for good properties; distinguished for superior attainments; choice; prime; valuable; exquisite; transcendent.

about 2,200.

Excen'tral, a. Out of the centre.

Excen'tral, a. See Roczwing.

Excen'tral, a. See Roczwing.

Excen'tral, a. See Roczwing.

Excent', v. a. [Fr. excepter; lat. excipto, exceptus—ex, and capto, to take. See Carruzz.] To take or leave out of any number specified; to exclude; to take or leave out, as any particular or particulars from a general description. scription.

ex. To object; to make exception; — followed by to.
—prep. Exclusively of; without; unless.
Except'ant, a. Implying exception.
Except'ing, prep. With exception of; excluding; ex-

cept.

\*\*Exception, n. [Fr., from Lat. exceptio.] Act of excepting or excluding; state of being excepted; exclusion; that which is excepted or excluded; the person or thing specified as distinct or not included; an objection of the control of the Exception. n. tion; a cavil; offence.

Excep'tionable, a. Liable to objection; objection-

able.

able.

Exceptionableness, n. Quality of being exceptionable.

Exceptional, a. Forming or making an exception.

Exceptive, a. That excepts; including an exception.

Exception, n. [L. Lat.] One who makes exceptions, or who objects

who objects.

Excerebra'tion, n. [From Lat.ex, priv., and cerebrum, the brain.] Act of beating out the brain.

Excer'ebrose, a. Having no brain, or deficient in

brain.

orain.

Excerpt', n. [Lat. excerptum, from excerpo — excerpo, to pick, to pluck, to gather. See Carp.] which is picked out; an extract; a passage se from an author. elected

from an author.

Excerp'ten, n. pl. Selections; extracts; excerpts. (R.)

Excerp'ten, n. A picker or culler. (R.)

Excerp'ten, n. A picker or culler. (R.)

Excerp'ten, n. Fr. exces; Lat. excessus, from excedo. See

Excerp. State of exceeding; that which exceeds; more
than enough; superfluity; superabundance; redundancy; that which is beyond the common measure, propotion, or due quantity; any transgression of due limits;
immoderate and intemperate conduct; rictousness; extravagance; profusion; that by which one number,
quantity, or magnitude exceeds another.

Excerp'subject.

Excessive, a. [Fr. except]. Being in excess; beyond any given degree, measure, or limit, or beyond the common measure or proportion; beyond due bounds; im-

mon measure or proportion; beyond due bounds; immoderate; intemperate; extreme; extravagant; violent; vehement; exceeding.

Excessively, adv. In an extreme degree; beyond measure; exceedingly; vehemently; violently.

Excessivemens, s. The state or quality of being exceeding exceeding exceeding excessive e

rive ; excess.

cessive; excess.

Exchange', v. a. [Fr. tchanger — ex, and changer, to change, q.v.] To change or give as one thing or commodity for another; to barter; to lay aside, quit, or resign one thing, state, or condition, and take another in the place of it; to give and receive reciprocally; to change; to commute; to bargain; to interchange.

-v.s. To pass in exchange.

(Com.) The means by which the debts of persons residing at a distance from their creditors are discharged without the transmission of mouse or goods. This is

without the transmission of money or goods. This is effected by means of what are known as Bills of Ex-change. A Bill of Exchange is simply an order addressed change. A Bill of Exchange is simply an order addressed to some person at a distance, directing him to pay a certain amount to the person in whose favor the bill is drawn, or to his order. A merchant in New York owing a sum of money for goods to a merchant in Paris, instead of remitting money or goods to the amount of the debt, goes into the market and buys from another merchant, who has a debtor in Paris, a bill of exchange for the amount, and sends it to his creditor in Paris, who in this way gots payment of his debt from a person in his own town, the debtor of the second merchant. Bills of exchange are of two kinds, included and forcess: inland this way gots payment of his debt from a person in his own town, the debtor of the second merchant. Bills of exchange are of two kinds, indard and foreign; inland, when both parties reside in the same state or country, and foreign, when the drawer and drawer reside in countries foreign to each other. In this respect the states of the United States are held foreign as to each other. In cities or countries having considerable inter-course together, the debts mutually due by the one to the other generally approach an equality. Between countries making use of different currencies there exists what is known as a par of E., which is the equivalency of a certain amount of the currency of one country to the currency of the other, the currencies of both being supposed to be of the precise weight and purity fixed by their respective mints. Among the causes that affect the par of E., in addition to a rise or fall in the price of the precious metals, are (1) changes made by authority in the quantity of pure metal contained in the coin by way of increase or diminution; (2) depreciation from the use of paper money; (3) clipping; (4) wear and tear. When two countries trade together, and each buys of the other exactly to the amount that it sells, their claims will balance each other, and the E. will be at par. This, however, is rarely the case; for there is almost always a balance owing on the one side or the other, and this balance affects the rate of E. Thus, if New York sends to Paris more goods than she receives from it, there will be a greater demand for bills upon New York in Paris than of bills upon Paris in New York, and their value will proportionally advance above par, while in N. York, in like manner, they will fall below it. It is evident, however, that these fluctuations in the real E are subject to certain limits beyond which they can-not advance. Thus the price of bills of E on any place can never exceed the expense of sending bullion to that place, otherwise the merchant will find it to his advantage to transmit bullion in place of bills. The tendency of any advance in the rate of E is to stimulate exportation, and to check importation. — The term is also applied to the place where the merchants, brokers, and bankers of a commercial city meet to transact business at certain hours.

set busness at certain nours.

Exchanges, in Pennsylvania, a P. O. of Montour co.

Exchangeabil'ity, n. Quality or state of being exchangeable.

Exchangeable, a. That may be exchanged; capable,

fit, or proper to be exchanged.

Exchange'-broker, n. (Om.) One whose business is to negotiate foreign bills of exchange, for which he receives a commission.

Exchang'er, s. One who exchanges; one who prac tises exchange.

Exchent', n. See Escheat.

Exchequer, (clarchel'er.) n. [Fr. échiquier, a ches-board; said to have been so called from the checkered cloth, resembling a chess-board, which covered the table there. See CHECKER.] A court of record in London consisting of two divisions—a court of revenue, and a court of common law.

court of common law.

-v. a. To institute a process against a person in the Court of Exchequer.

Exchequer Bill. n. One of the bills of exchange issued by the English government in anticipation of revenue, and on the confidence of the annual financial income. They bear interest at a fixed rate, this rate being computed at the time of their issue, at a sum proportioned to the current market-rate, the fluctuations in the value of these securities depending on the proportion which such a rate heaves to successive changes. portion which such a rate bears to successive chan in the market-price of money; when this is high,

portion which such a rate bears to successive changes in the market-price of money; when this is high, the security will be at a discount; when low, at a pressium. Excide, v. a. [Lat. excido.] To cut off. (R.)

Exciptiems, n. An exceptor. (R.)
(Med.) A substance which is a medical prescription, gives form and consistence to it, and serves as a rehicle or medium for the exhibition of the other ingredients.

Excise, a. Liable or subject to excise.

Excise, n. [Fr., from Lat. excido, excisum—ex., and cado, to cut. See Casura.] In England, an inland tax or impost on articles produced and consumed within the state or kingdom, and also on licenses to deal in the state or kingdom, and also on licenses to deal in tkin commodities.

2. To lay or impose a duty on articles produced and

consumed at home.

consumed at home.

Excise'mans, n. An English officer who inspects commodities, and rates the excise duty on them.

Excise'mious, (cks-sish'n, n. [Fr., from L. Lat. excisio—ex, and cxcdo, cxsum, to cut.] A cutting out or off any part; the cutting off of a person or nation, as a judgment; extirpation; destruction.

(Excl.) Excommunication.

(Surg.) Amputation. The term is usually confined to the removal of the elbow-joint or ankle, and portions of other bones.

Excitabil'ity, n. [Fr. excitabilité.] Quality of being capable of excitement; susceptibility of increased vital

action.

(Med.) That state of system which is more or less susceptible of morbid excitement.

Excitable, a. [L. Lat. excitabilis.] Capable of being excited.

Excitant, n. [Lat. excitans. See Exerts.] (Med.)
That which produces, or may produce, increased action
in a living body; a stimulant.
Excitation, n. [L. Lat. excitatio.] Act of exciting;
axcitament.

Excitative, a. [Fr. &citatif.] That excites, or has

Excitative, to power to excite.

Excitation, n. [Lat.] (Elect.) An instrument used to discharge a Leyden jar, or other electrical apparatus, without exposing the operator to the consequences of

Exci'tatory, a. Tending to excite.

Excite v. v. a. Fr. sectior, from Lat. excite, excitatus—
ex, and cite, to put in rapid motion, to call or summon
to, freq. of ciee, to put in motion, to shake, to rouse.
See CITE. To call out or forth; to bring or send out;

See Cira.] To call out or forth; to bring or send out; to wake up; to call into action; to stir up; to raise; to awaken; to animate; to incite; to arouse; to stimulate; to inspirit; to irritate.

Excit'cd, p. a. Roused; awakened; animated; put in motion; stimulated; inflamed.

Excite'ment, n. [Fr.] Act of exciting; stimulation; satate of being roused into action; agitation; sensation; that which rouses, moves, stirs, or induces to action; commotion. commotion.

Excit'er, n. He or that which excites.

Excit'ing, p. a. Calling or rousing into action; stim

Exciting, p. a. Calling or rousing into action; stimulating.

Excitingly, adv. In an exciting manner.

Excitive, n. That which excites.

—a. Causing excitement. (a.)

Excitingly, adv. In an exciting manner.

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Excitingly, adv. In an exciting manner.

Excitive, n. That which excites.

Excitingly, adv. In an exciting manner.

Excitingly, adv. In an exciting with the beliate to be little censurable, look; to free from an obligation or duty; to release; to throw off an imputation by apology; to exculpate; to absolve; to pardon; to justify; to violicate.

Excommmu'micatory, a Relating with excussor or extenuates a fault.

Excommunication.

Excommun'micatory, a Relating to or causing excommunication.

Excommun'micatory, a Relating with excussor or extenuates a fault.

Excusselless, a That is without excusor.

Excusselless, a That is without excusor or e

coughing, hiccoughing, vomiting, and expelling the faces and urine, and others of a like nature, are to be deduced from the first and fourth classes of motor vibrations; i. e., either from those vibrations which first ascend up the sensory nerves, and then are detached down the motory nerves, which communicate by some common trunk, plexus, or ganglion; or else from those vibrations that run along the surfaces of uniform membranes, and so affect all the muscles which lie contiguous to any part of the membranes. of the membranes."

or to memoranes. Fr. exclamer; Lat. exclamo — ex, and clamo, to call, to cry out. See CLAMOR.] To call or cry out; to call or cry aloud; to raise an outcry; to shout; to utter the voice with vehemence; to declare with loud

eration.

vocieration.

Exclaimer, n. One who exclaims.

Exclaimer, n. [Fr., from Lat exclamatio, from exclamo. See Exclaim.] Act of exclaiming; outcry; noisy talk; clamor; vehement vociferation; noisy utterance of censure; a vehement extension or exertion of the exclamation. of the voice.

(Rhet.) A sentence of passionate import, or passionately attered; a word expressing outcry; an interjection. (Print.) A note by which emphatical uttarance or outcry is marked, thus (!).

Exclamatively, a. Exclamatory; exclaiming.

Exclamatively, Exclamatorily, adv. With

exclamation.

Exclamation.

Exclamation.

Exclamation.

Exclamation, a. Using exclamation; containing or expressing exclamation.

Exclude, v.a. [Lat. excludo, exclusus—ex, and claudo, to shut. See Clause.] To shut out; to thrust out; to eject; to hinder from entering or admission; to debar; to prohibit; to proclude; to expel; to emit; to except; not to comprehend or include.

Excluded, p.a. Shut out; thrust out; hindered or prohibited from entrance or admission; debarred.

Excluding; a shutting or thrusting out; ejection; act of debarring; state of being excluded; prohibition; preclusion; rejection; ejection or emission.

Exclusionery, a. Tending to exclude or debar.

Exclusionery, a. Tending to exclude or debar.

Exclusionery, a. Reclusive principles; exclusivem.

Exclusionism, n. Exclusive principles; exclusivem.

Exclusions. A. One who would preclude another from some privilege.

Exclusive, a. [Fr. exclusif.] Tending to exclude or shut out: excluding; debarring from participation; not including or comprehending; excepting; debarring from fellowship; not admitting to social intercourse;

One of a coterie who exclude others from their so

-n. One of a coterie who exclude others from their so-ciety or fellowship.

Exclu'sively, adv. In an exclusive manner.

Exclu'sivemess, Exclu'sivism, n. State or qual-ity of being exclusive.

Exclu'sory, a. [Lat. exclusorius.] That has power to exclude: exclusive.

exclude; exclusive.

Exceg\*ftaste, v. a. [Lat. exceptio, exceptiatus—ex, and cogito, from con, and agito, to pursue mentally, freq. from ago, to drive, to urge. See Acr.] To strike out by thinking; to find out by thinking; or by earnest study; to invent, contrive, or devise by serious think-tender acridentification. ing or consideration.

ing or consideration. Exceptiatio.] Act of exceptiating; invention or contrivance by serious and earnest thinking; cogitation.

Exceptiment'nicable, a. Liable to be excommuni-

Excommu'uicant, n. One who has been excommu nicated

Excommu'nicate, v. a. [Lat. ex, and o communicatus, to make common, to communicate. See COMMUNICATE.] To expel or exclude from communion or fellowship: to eject or interdict from the communion of the church. Excommunicated

—a. One who is excommunicated; an excommunicant.

Excommunicated, p. a. Expelled or separated from communion with a church.

from communion with a church.

Excommunication, N. [Fr., from L. Lat. excommunicatio.] (Eccl.) Act of excommunicating or ejecting from the Church; expulsion or exclusion from the communion of a Church and deprivation of its rights, privileges, and advantages. It is distinguished by the Roman leges, and advantages. It is distinguished by the Roman Cath. writers as greater (anathema) or lesser (excommunicatio): the former entirely cutting off the offender from the body of the Church and the society of the faithful, and being proclaimed only when a sin has been mortal, manifest, and scandalous; the latter prohibiting from participation in the sacraments and in public worship; participation in the sacraments and in public worship; and being imposed especially upon those who cherish intercourse with anathematised persons. Only the latter E is in practice among most Protestants, though the Anglican Church recognizes them both.—A form of E used in the Middle Ages, was termed Bell, Book, and Candle. The bell was tolled to summon the people, the sentence read out of a book, and a candle, which the priest held, was thrown upon the ground and extinguished in token of the fate of the delinquent.

(Med.) An abrasion of the cuticle.

Excertica'tion, n. [Fr.] A pulling off of the bark; decortication.

decordication.

Ex'erement, n. [Lat. excrementum, from excreme, excretss—ex, and cerno, to separate, to sift. See Discuss.]

The refuse; that which is separated from the nutriment by digestion, and discharged from the animal body as being superfluous; foecal matter; ordure; dung.

Excrement'al, a. [Fr. excrimentiel.] Excreted or ejected by the natural passages of the body.

Excrementi'tial, a. Containing, or resembling, excrement.

crement.

crement.

Excrementi'tions, a. [Fr. excrementeux.] Pertaining to, consisting of, or containing excrement.

Excremented by the containing excrement.

Excremented by the containing excrement.

Excremented by the containing excrements, from excrement.

Late excremented from Excrements, from excrement.

ex, and cresso, to grow. See CRESCEPT.] That which grows out or up; a preternatural protuberance growing on any part of the body; a superfluous part; any pre-ternatural enlargement of a plant, like a wart or tumor; a preternatural production.

a preteroaura production.

Excreceent, a. [Lat. excrescens.] Growing out of something else, in a preternatural manner; superfluous.

Excrete, v.a. [Lat. excremo, excetus. See Excapanxy.] To sift out or separate; to separate and throw off, as by natural passages; to evacuate; to discharge; to eject.

to eject.

Excret'ed, p. a. Passed from the body by excretion.

Excretion, n. [Fr. excretion; L. excretio.] Act or
process of excreting; separation or ejection of excrementitious matter from the animal system; that which

Ex'cretive, a. Having the power of separating and ejecting excrementitions matter from the body; excretory.

ejecting excrementations master. That excretes; haviory.

Ex'eretory, a. [Fr. excretoire.] That excretes; having the quality of excreting or throwing off excrementitions matter by the glands.

—a. (Physiol.) One of the little ducts or vessels described to receive secreted fluids from the glands, and to excrete them.

Exerm'claste, v. a. [Lat. excrucio, excruciatus—ex, and crucio, from crus, a cross, v.] To torture or torment excessively, as if on a cross; to afflict with extreme pain or agony; to rack.

Exerm'clasting, p. a. Extremely painful; agonizing; distressing.

distressing.

Excruciation, n. Act of excruciating; extreme

Excul'pable, a. That may be exculpated.

Excul'pable, a. That may be exculpated.

Excul'pable, v. a. [Lat. ex, and culpo, culpatus, from culpo, a crime, a fault; Fr. disculper; It. scolpare.] To free from crime, fault, blame, or censure; to clear by words from a charge or imputation of fault or guilt; to aronards: to absolve to avenue; to instity to vincents. exonerate; to absolve; to excuse; to justify; to vin-

Exculpation, n. [L. Lat. exculpatio.] Act of excul-pating or of vindicating from a charge of fault or crime;

excuse.

Excul'patery, a. Able to clear from the charge of fault or guilt; excusing; containing excuse; clearing from imputation.

Ex cur'rea. [Lat.] (Law.) Out of court.

Excur'reat, a. [Lat. excurres, running out.] (Bot.) Applied to the ramifications of any body whose axis always remains in the centre, the other parts being regularly disposed around it, as the stem of Abies excelsa.

Excursion, a. [Fr., from Lat. excursio, from exc Excursions, a. [17, from Lat. excurso, from excurso, excursion — ex, and curso, to run.] A rambling or roving about; progression beyond fixed limits. — Digression; a wandering from a subject or main design. — An expedition or journey; any rambling from a point or place, and return to the same point or place; a ramble; a tour; a trip or jaunt for pleasure.

Excursionist, n. One who travels from one place

Excur'sionist, n. One who travels from one place to another for pleasure.

Excur'sive, a. Rambling; wandering; deviating.

Excur'sively, adv. In a wandering manner.

Excur'siveness, n. Quality of being excursive; act of wandering, or of passing usual limits.

Excur'sus, n. [Lat., a digression.] A literary exercise, task, or performance; a discussion; a disquisition; a dissertation.

Excus'able, a. [Fr., from Lat. excusabilis.] That may be excused; pardonable; admitting of excuse or justi-

Excus'ably, adv. In an excusable manner; pardon-

Excuse ably, adv. In an excusable manner; pardonably.

Excuse apologetical.

Excuse; electric and a [Fr. excuser; Lat. excuse — ex, and causor, from causa, a cause, a suit, a process. See CAUSS.] To free from the imputation of a fault or blame; to acquit of guilt; to pardon, as a fault; to forgive entirely, or to admit to be little censurable, and to everlook; to free from an obligation or duty; to release; to remit; not to exact; to admit an apology for; to throw off an imputation by apology; to exculpate; to absolve; to pardou; to justify; to vindicate.

—s. Act of excusing or apologizing; a plea offered in extenuation of a fault or a breach of deportment; apology; that which excuses or extenuates a fault.

Excuse less, a. That is without excuse.

Excuse excuser.

ersetabire, and, after a course of 54 miles, flows into the Esglish Channel at Exmouth.
Ex delic'to. [Lat.] (Law.) From wrong or test. A division of actions is made in the common and civil law into those arising ex contracts (from contract), and ex delicts, i. e. in consequence of a crime, misdemeanor fault, or test

fault, or test.

Ex'eat, n. [Lat., he may go out.] In the European
universities, a permission of temporary absence. — Permission given by a bishop for a priest to go out of his

discreee.

Ex'cerable, a. [Fr. exécrable, from Lat. execrabilis.]

Descring to be execuated or cursed; very hateful; detestable; alominable; accursed.

Ex'cerablemess, s. State of being execrable; hate-

Ex'cerablemens, a. State of being execrable; hatefulnes.

Ex'cerably, adv. Cursedly; detectably.

Ex'cerably, adv. Cursedly; detectably.

Ex'cerably, adv. Cursedly; detectably.

Ex'cerably, adv. Cursedly; detectably.

Ex'cerable, v.a. [Fr. execrer, from Lat. execror—ex, and sero, from sacer, consecrated or dedicated to a deity, devoted, accursed.] To exclude from sacred things; to curse; to denounce evil against, or to imprecate evil upon; hence, to detect utterly; to abhor; to abominate.

Ex'cerated, p.a. Cursed; denounced; imprecated.

Ex'ceration, or cursing; a curse pronounced; imprecation of evil; malediction; detectation expressed; object execrated; an abomination.

Ex'ceratery, m. A formulary of execration.

Ex'ceratery, m. A formulary of execration.

Ex'ceratery, o. That may be executed.

Ex'ceratery out; to accomplish; to perform; to effect; to do; to fulfil; to achieve; to finish; to complete; to carry into effect; to transact; to inflict capital punishment ou; to put to death; to slay.

-e. m. To perform the proper office.

Ex'ceration, m. [Fr. execution; Lat. executio.] Act of executing; act of completing or accomplishing; performance: operation; practice; completion; accomplishment.

(Law.) The last stage of a sult giving possession of

formance: operation; practice; completion; accomplishment.

(Law.) The last stage of a sult giving possession of anything recovered at law or in equity after the decision of the court.—the putting in force of the sentence of the court. This is performed by different writs of execution, according to the nature of the action, and of judgment. In ordinary actions, the judgment is, in general, for the recovery of money only, either by way of debt or damages. In such case, the practice of the court allows the judgment-creditor to resort to one of the four following writs of execution:—(1) Writ of explain at satisfaciendum, to imprison the body of the debtor till estisfaction be made for the debt, or damages and costs, in the States where such mode of execution capias ad satisfaciendum, to imprison the body of the sebotr till satisfaction be made for the debt, or damages and costs, in the States where such mode of execution is not abolished; (2) writ of \*feri\* facias\*, by which the goods and chattels of the party against whom the judgment is recovered may be seized upon and sold; (3) writ of \*Lecari\* facias\*, which commands the sheriff to levy the debt on the lands and goods of the party against whom it is issued; (4) writ of \*legit\*, (see Elearr.) Where the judgment is for the recovery of goods themselves which are detained, there is a special writ of execution, called a \*distrisgas\*, to compel the defendant to deliver his goods by repeated distresses on his chattels, or else a \*cire\* facias\* against any third person in whose hands they may happen to be, to show cause why they should not be delivered; and if the defendant still continues obstinate, then the sheriff shall summon an isquest, to ascertain the value of the goods and the plaintiff\* damages, which shall be levied on the person or goods of the defendant.—E. of deeds is the signing, easiling, and delivery of them by the parties, as their own acts and deeds, in the presence of witnesses.

(Crim. Law.) The last stage in criminal proceedings—the depriving the criminal of his life.—See Punishen.

—the depriving the criminal of his life. — See Punnan-Many (Carrat.)

(Fine Arts.) The mode of performing a work of art, and the dexterity with which it is accomplished. (Mus.) The mode of expressing or rendering musical sotation by the voice or by an instrument; facility of the voice or of the fingers in running rapid divisions, and other difficult and intricate passages.

Executionmer, n. One who carries anything into ef-fect.—One whose duty is to put to death criminals con-denned by law.

fect. — One who demned by law.

Exce'utive, a. [Fr. exceutif.] That executes; having the quality of executing or performing; carrying the laws into effect, or superintending the enforcement of the laws. into-fi-ci, or superintending the enforcement of the laws.

a. (Pd.) A power in a state, distinct from the legislative or judicial. The power that deliberates and enacts laws is the begindative, that which judges or applies the laws to particular cases is the judicial, while the executive is that which carries the laws into effect, or superintends the enforcement of them. In the U. States the strenties is, by the Constitution, vested in the President and such inferior officers as he may appoint, with the agreement of the Senate.

Executively, adv. In the way of executing or performing.

forming.

Exec ator, n. [Lat. exsequi; Pr. exécuteur.] One who performe; a doer; as, an executor of business.

(Law.) A person intrusted by a testator to carry out the directions and requests in his will, and to dispose of his property as directed therein, after his decease. Before probate of the will, an E. may effectually do most of the acts that he could enforce afterwards; but an expected administrator can properly do no act whatever source obtaining letters of administration. An administrator, after receiving letters of administration, is in most respects in the same position as an E, and the

cases relating to the one apply, in general, to those of the other. An administrator is required to enter into bond with sureties for the faithful execution of his trust. An E may refuse to act; but, having once acted, he cannot divest himself of the office or its responsibilities. If a person take upon himself to act as E. without any just authority, as by intermeddling with the goods of the deceased, he is called an E. de son tord, e., to his own hurt, and is liable to all the trouble of his office, without any of the profits or advantages; but merely doing acts of necessity or humanity, as locking up the goods, or burying the deceased, will not be so construed. An alien cannot be either an executor or administrator, unless he is an inhabitant of the State. The duties of an executor are to bury the deceased in a suitable manner, to prove the will, and make up an inventory of the personal estate; to collect the gu ods The duties of an executor are to bury the deceased in suitable manner, to prove the will, and make up an inventory of the personal estate; to collect the goods and chattels of the deceased, and to pay his creditors in the order of legal priority. The legacies are then to be paid as far as the assets extend, observing the distinction between a specific and a general legacy; the residue, if any, going to the next of kin. The office of an executor is one of great trust and responsibility, as he not only represents the deceased, but is also a trustee for the behoof of the creditors, legatees, and next of kin of the deceased. He is liable for any loss occurring to the estate through negligence; for paying sums to due, unless upon decrees; for paying simple-contract creditors before special creditors, or legatees before all the debts are discharged, if there should be any deficiency in the estate. If he intromit with the funds or movables, so as to leave no means of ascertaining its extent, he is liable for all the debts of the deceased; otherwise an E is liable for the destate. If he deceased only to the amount of the inventory.

(Er. executors) Performing official the inventory.

EXEM

Exec'utory, a. [Fr. exécutoire.] Performing official duties; executive.

(Law.) Designed to be executed in future, or to take effect upon a future contingency; as, an executory deflect upon a future contingency; as, an executory deflect.

Exec'utrix, or Recoveres, n. [Fr. exécutrice.] A fe-male executor; a woman appointed by a testator to execute his will.

execute his will.

Executes, or Exercise, so. [Gr.] (Arch.) In ancient architecture, recesses in the baths and other buildings, appropriated for conversation. They appear to have been similar to the modern alcove, though larger.

appropriated for conversation. They appear to have been similar to the modern alcove, though larger.

Exegresis. (eks-e/e'sis). n. [Gr. ex, out of, and egeomat, I lead.] The exposition or interpretation of any writing, but applied particularly to the interpretation of the Holy Scriptures. The distinction between E and hermeneutics may be thus defined: Hermeneutics is the science which lays down the principles of the art of interpretation, and E is the application of these principles to particular instances. As the sacred books were written in foreign languages, by authors of a different age, and living in a country different from ours, it sevident that, in order to understand them thoroughly, requires not only an intimate acquaintance with those languages, but also a large mass of historical, geographical, and antiquarian knowledge. In the early ages of the Church, several of the fathers distinguished themselves as exegetical authors, as Origen, Chrysostom, Diodorus of Tarsus, and Jerome; but during the Middle Ages, from the ignorance of the sacred languages that then prevailed, the subject was almost entirely neglected. The Reformation revived this study in the labors of Luther, Melancthon, Calvin, Zwingius, Beza, and others. Since that time this subject has received much attention from scholars, and never more than at the present time.

since that time this subject has received much attention from scholars, and never more than at the present time. Ex'egete, m. [Fr. exégèle; Gr. exegèles.] One versed in the scientific interpretation of the sacred writings. Exeget'ice, Exeget'eal, a. [Fr. exégetique; Gr. exegétique.] Pertaining to exegesis; explanatory; tending to illustrate.

ing to mustrate. Except ically, adv. By way of explanation. Except ically, adv. By way of explanation. Except ically, adv. That branch of theology which includes polemics, hermeneutics, and the history of the

includes polémics, hermeneutics, and the history of the sacred canons. — See Exersis.

Ex'egetist, n. One versed in exegetics.

Ex'elmans, Henri Joseph Leidor, a celebrated French marshal, s. at Bar le Duc, 1771, was engaged in most of the campaigns of Napoleon, and D. in 1852.

Exemiplaria, n. [Lat. exemplum.] A model to be copied; a pattern; a copy; the image by which the artist conducts his work.

Exemiplaria, adv. In an exemplary manner; in a way worthy of imitation.

Exemiplarimess, n. The state of being fitted to serve as an example.

Exemplans, hand joseph index, a celebrated french marshal, B. at Bar le Duc, 1771, was engaged in most of the campaigns of Napoleon, and p. in 1852.

Exem/plan, Liut. exemplum. A model to be copied; a pattern; a copy; the image by which the artist conducts his work.

Exem/planily, adv. In an exemplary manner; in a way worthy of imitation.

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Exem/planily, adv. In an exemplary manner; in a way worthy of imitation; in the sample of the sample o

Exemplify, v. a. [L. Lat. exemplificare.] To show or illustrate by example; to transcribe, or copy; to take an attested copy; to prove by an attested copy.

Exemplify or a. [L. Lat. exemplificare.] To show or illustrate by example; to transcribe, or copy; to take an attested copy; to prove by an attested copy.

Exemplify or a. [Lat. exhalation or complete or instance; usually abbreviated ex. gr. or e. g.

Exemplify. v. a. [Fr. exempler; Lat. exemplus, from eximo.] To take out; to take away; to remove; to free from; to except; to release; to exonerate; to grant immunity from; to privilege.

Taken or left out; free by privilege; not included;

not liable; clear.

-a. One free or exempt from a duty devolving on others.

-A petty officer of the English Ysomen of the Royal Guard. -s. One free or exempt from a duty devolving on othera.

—A potty officer of the English Ysomen of the Royal Guard.

—A potty officer of the English Ysomen of the Royal Guard.

Exemption; It seemione; Sp. seemion.] The act of exempting: It he state of being exempt; freedom from duty or service, to which others are subject; immunity; privilege.

Exemiterate, v. a. [Lat. exemicare; Gr. ex, out, enteron, intestine.] To embowel; to eviscerate.

Exemiteration, s. Evisceration.

Exemiteration, s. Liat., etch him perform.] (Pol.) A writing officially recognizing any accredited accut of a foreign government, and authorizing him to perform the duties which he was sent to discharge.

Exeminate and the service of the following the corpse beyond the walls, from ex, out, and sequent to follow.] Funeral procession, or rites; exemonies of burial.

Exeminate and the service of the following the corpse beyond the walls, from ex, out, and sequent to follow.] Funeral procession, or rites; exercising the diving on; a keeping in practice, use, or constantly regular employment; labor; work; use: practice; employment; exertion; application; mental or bodily exertion for improvement; use or practice to acquire skill; application of the mental powers; task; act of divine worship.

—o. a. [Lat. exerce from ex, off, and arce, to ward; Gr. exarkeo, to shut off, to suffice.] To drive or bring out of an inclosure or confinement; to bring from a sluggish state; to urge or drive; to busy; to move; to exert; to cause to act; to exert one's powers; to train to use.

—v. s. To use action or exertion; to practise or take exercise.

Exemption:

ercuse.

Ex-oreiner, n. One who exercises.

Ex-oreina'tions, n. [Lat. exercitatio, from exercitare, to practice frequently.] Exercise; practice; use.

Exer'eitor, n. One who charters a vessel for a given

voyage.

Exergue', n. [Fr. exergon, from ex, out, and ergon, work.] (Numismatics.) The basis or lower limb of a coin or medal, when separated by a line from the rest of the face, which usually contains words giving the date, place, &c., of the coin, or other subsidiary matter.

Exerg', v. a. [Lat. exergo, exergism, to plant or put in To thrust forth, emit, push out, bring out, or cause to come forth; to produce; to strain; to put in action; to do: to perform.

come forth; to produce; to strain; to put in action; to do; to perform.

Exer\*tiems, a. Act of exerting or straining; act of putting into motion; endeavor; striving or struggle; trial.

Exer\*tive, a. Using exertion.

Ex'eter, a very ancient city, see-port, and episcopal see of England, cap. of Devonshire, on the Exe, 10 m. from its mouth, and 64 from Bristol. Its magnificent cathedral was begun in 932. Mansf. Woollens, paper, and there are several breweries and tron foundries. P. (1897) 37,595.

Ex'eter, in Illison, a p.st-town of Scott co., about 50 m. W. of Springheld.

Ex'eter, in Music. a p.st-town and township of Penobecot county, about 60 miles N.E. of the city of Augusts.

gusta. Ex'eter, in Michigan, a post-township of Monroe

Ex'eter, in New Hompshire, a post-village and town-ship, semi-cap. of Bockingham county, about 50 m. N. ship, semi-of Boston.

of Boston.

Ex'eter, or Squamscor River, in New Hampehire, enters the Piscataqua River from Rockingham co.

Ex'eter, in New York, a post-village and township of Otsego co., on Canandaigua Lake, about 75 m. W. by N. of Albany.

Ex'eter, in Pennsylvania, a township of Berks

co.

—A post-township of Luzerne co, on the N. branch of the
Susquehanna River. The battle celebrated in Campbell's Gertrade of Wyoming, was fought here in 1778.

—A township of Wyoming co.

Ex'eter, in Rhode Island, a post-village and township of Washington county, abt. 25 m. S.S.W. of Provi-

Ex'eter, in Wisconsin, a post-village and township of

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active vegetation is very great. In one of the well-known experiments of Hales, a Sunflower 3½ feet high, with a surface of 5-616 sq. inches exposed to the air, was found to perspire at the rate of 20 to 30 ounces avoirdupois every 12 hours, or 17 times more than a man. A Vine, with 12 sq. feet of foliage, exhaled at the rate of 5 or 6 ounces a day; and a seedling Apple-tree, with 11 sq. ft. of foliage, lost 9 ounces a day. The amount varies with the degree of warmth and dryness of the air, and of exposure to light; and is also very different in different species, some exhaling more copiously even than the funflower. But when we consider the vast perspiring surface presented by a large tree in full leaf, it is evident that the quantity of watery vapor it exhales must be immense.

be immense.

Exhale', v. a. [Fr. eshaler; Lat. exhalare, from ex, and halare, to breathe.] To send out or emit breath, odor, vapor, or minute particles of fluid or other substance; to cause to be emitted in vapor; to evaporate.

—v. n. To fly off, or vanish, as vapor.

Exhamst', v. a. [Lat. exhauric, exhaustum, from ex, and haurio, to draw out.] To draw up, or out, as liquids; to empty by drawing out; to use, expend, or consume; to expend the whole by exertion.

—a. [Lat. exhaustus.] Drained; having lost its energy.

—n. The steam emitted from the cylinder after being used.

Exhaust'fible, a. That which exhausts, or draws out.

Exhaust'fible, a. That may be exhausted.

Exhaust'fible, a. That may be exhausted.

Exhaust'grawing out, draining out, or throwing off; act of emptying completely of the contents; state of being exhausted.

(Geom.) An ancient geometrical method which has been replaced by the modern differential calculus.

being exhausted.
(Geom.) An ancient geometrical method which has been replaced by the modern differential calculus. The ancients employed this method in their difficult researches, particularly in the theory of curve lines and surfaces, and in determining areas and volumes. As they admitted no demonstrations but such as are per fectly rigorous, they did not consider curves as polygons of a great number of sides; but in attempting to discover of a great number of sides; out in attempting to discover the properties of any curve, they regarded it as the fixed term or limit to which the inscribed and circumscribed polygons continually approach, and approach the nearer as the number of their sides is increased. Thus they co-hausted, as it were, the space between the polygons and the curve; and hence this method of procedure was

the curve; and hence this method of procedure was called the method of exhaustion.

Exhaustive, a. That exhausts.

Exhaustive, a. That exhausts.

Exhausties, a. Not to be exhausted; not to be wholly drawn off or emptied; inexhaustible.

Exheredaties, n. See Exedea.

Exheredaties, n. See Exedea.

Exheredaties, n. [Fr. exhiber; Lat. exhibeo, exhibitum—ex, and habo, to hold. See Hava.] To hold or reach out; to hold forth; to offer or present to view; to show; to display; to manifest publicly; to present; to offer publicly or officially.

to hold firth; to offer or present to view; to show; to display; to manifest publicly; to present; to offer publicly or officially.

Exhib\*iter, a. One who exhibits.

Exhib\*item, n. [Fr., from Lat. exhibitio.] Act of exhibiting for inspection; a showing or presenting to view; display; public show; representation of feats or actions in public; display of oratory in public; any public show, especially of works of art, industry, manufactures, &c. (Eng. Universities). Allowance of mest and drink; pension to indigent students.

(Med.) The act of administering medicines.

(Hist.) The idea of collecting objects of industrial manufacture first occurred to the Marquis d'Arèze, in 1797; but he was unable to carry it out until 1798, when he opened at Paris what is termed in France am "exposition" of French goods. The undertaking proved so

he opened at Paris what is termed in France an "exposition" of French goods. The undertaking proved so successful that the idea was adopted by the French Government, and similar collections were exhibited in 1801, 1802, 1806, 1819, 1823, 1827, 1834, and since then every five years. A similar E was opened at Ghent in 1820, at Berlin in 1834, at Vienna in 1835, and at New York in 1853. This led to the idea of a general E, in which different nations should be competitors. The first on this extended scale were the Great E's in London in 1851 and 1862, followed by Paria, 1867, Vienna, 1873, Philadelphis, 1876, Paria, 1878-89, Chicago, 1833, Atlanta, 1895, Buds-Peath, 1896, Stockholm, 1897, Nashville, 1897, &c., which see, for details.

Exhibitions, or shows of works of art.

Exhibitions, or shows of works of art.

Exhibitions, and the shiften of the shift sition" of French goods. The undertaking proved so successful that the idea was adopted by the French Gov-

-v. w. To deliver exhortation : to use words or arguments

-v. n. To deliver exhortation; to use words or arguments to incite to good deeds.

Exhortation, n. [Fr., from Lat. exhortatio.] Act or practice of exhorting; act of inciting to laudable deeds; incitement; the form of words intended to incite and encourage; advice; counsel.

Exhortative, a. [Lat. exhortatives.] Pertaining to, or containing, exhortation.

Exhortator, n. [L. Lat.] An exhorter; an encourager.

Exhor'tator, n. [L. Lat.] An exhorter; an encourager.

Exhor'tatory, a. [L. Lat. exhortatorius.] That exhorts; tending to exhort.

Exhort'er, n. One who exhorts or encourages.

Exhuma'tiom, n. [Fr. exhumer.] Act of exhuming or of disintering; the disintering of a corpse; the digging up of anything buried.

Exhume', v. a. [Fr. exhumer; Lat. ex. and humno, earth, ground. See Humin.] To take out of the ground; to unbury; to disinter.

Exit's, n. (Bot.) A genus of plants, order Fungales. The species E. Auricula Juda, Jew's-ear, is reported to possess astringent and discutient properties, when applied externally as a decoction or poultice. E. hispidula is used in China se a styptic, and as food mixed in soups and hashes. It is known there under the name of Moghi, which signifies cars of trees.

Exigence, or Exigence, from exigo—ex, and ago, to drive. See Acr.] That which drives or thrusts out or forth; urgent need or want; pressing necessity; urgency; demand; distress; pressure; emergency; our exists.

Ex'igently, a. [Lat. exigens.] Driving or forcing out or forth; urgent; pressing; requiring immediate aid or

Exigently. d. [Lat. exigens.] Driving or forcing our or forth; urgent; pressing; requiring immediate aid or action.

Exile, s. [Fr. exil, banishment, exil, a banished person—ex, and solum, soil, land, country, region. See Soil.] State of being expelled from one's native soil, or country, or place of residence; banishment; proscription; expulsion; expatriation; an abandonment of one's country, or removal to a forbign country for residence; the person banished or separated from his country.

(Hist.) In Roman law, the punishment of banishment, or, more strictly speaking, the consequence of the interdiction from the use of fire and water, pronounced as a sentence against great offenders, compelling them to expatriate themselves. It appears that the direct sentence of exile was not known to ancient Roman jurisprudence. (Cicce, ad Herenn.) In modern France (before the Revolution), there was a distinction between banishment and exile. The former was a punishment assigned by the law, and producing infamy; the latter a measure of discipline, inflicted by the arbitrary act of the monarch (usually through lettres de cachet). Thus political offenders were frequently exiled to their estates, to a certain distance from court, &c.

Exile', v. a. [Fr. &ciler.] To banish from a country or home; to drive away, expel, or transport from one's country; to drive from one's country by misfortune, necessity, or distress.

Exile', v. a. [Fr. &ciler.] From Lat. ex, from, and intus, within [Bot.] A membrane situated between the extine and intine in the pollen of yew, juniper, cypress, &c.

Exile's, in Iossa, a post-village and township of Audubon co., on C., R. I. & P. R. R., 16 m. N. E. of Atlantic co. Pop. (1887) about 500.

co., on C., R. I. & P. R. R., 16 m. N. E. of Atlantic co. Pop. (1897) about 800.

Exist'. v. n. [Fr. & sister, from Lat. existo—ex, and sisto, to stand, q. v.] To stand out or forth; to come forth; to emerge; to appear; to be; to have an essence or real being; to live; to have life or animation; to remain; to endure; to continue in being.

Exist'enee, n. [Fr., from L. Lat. existentia, from Lat. existent.] State of being or existing; life; animation; continued being; duration; continuation; anything that exists; a being; an entity.

Exist'emt, a. [Lat. existens.] Being; existing; having being or existence.

Existent, a. [Lat. existens.] Being; existing; having being or existence.

Existent, a. [Lat. depressing, pressing, or life.

Existing, p. a. Having existence, being, or life.

Existing, p. a. Having or bark, and an intecluation of the bark through the wood, called medul. They are called Exogen because theyadd to the successive external additions. The class Exogenous, (elsa-gen-us.) a. Pertaining to be uncorrected to the class Diocytladones of other less of plants that grow on the outside; growing by sive additions to the outside of the wood, as to of the greater number of plants.

Exogenous, (elsa-gen-us.) a. Pertaining to the wood, as to of the greater number of plants.

Exogenous, (elsa-gen-us.) a. Pertaining to of the greater number of plants that grow on the outside; growing by sive additions to the outside of the wood, as to often exogenius, leaves, leaves and the late of the wood, as to often exogenius, leaves, leaves and the late of the wood, as to fine the late of the wood, as to feel uncorrected to the class leaves, leaves and the late of the wood, as

E., who had been wounded in the to every demand. leg and cheek in this action, received, on his return to England, the thanks of both liouses of Parliament, and was promoted to the rank of viscount. In 1821 he tired from public service, loaded with honors. D. 18 tx cocc'tins. [Gr. exokoitos, fish which comes In 1821 he re-

upon the beach to upon the beach to slip.] (Zoöl.) The flying-fishes, a gen. and family of Mala-copterygious fishes, characterized by the excessive develop-ment of the pecto-rals, which are about the length of the body, and enable the possessors to



(Executive vo

ble the possessors to support themselves in the air for a few moments. Fishes of this family are found in all warm and temperate seas, and there are many species from 3 to 12 inches in length. Exodus, (ckro-dus.) s. [Gr. exodos, a going out, a departure.] (3rript.) The name of the second book of the Old Testament, containing a narrative of the departure of the children of Israel out of Egypt under the guidance of Moses. In Hebrew it is termed Veolational shemoth (these are the names), from the words with which the book begins. E may be divided into two principal parts: 1. Historical (i. 1-xviii. 27), comprising the preparation for the deliverance of Israel from their bondage in Egypt, and the accomplishment of that depreparation for the deliverance of Israel from their bondage in Egypt, and the accomplishment of that deliverance; and 2 Legislative (xix. 1-xi. 38). In the first section we have an account of the great increase of Jacob's posterity in the land of Egypt, and their oppression under the "king that knew not Joseph;" an account of the birth, education, and flight of Moses; his solemn call to be the deliverer of Israel, and his return to Egypt, his interviews with Pharmach the infliction. of Jacob's poterity in the land of Egypt, and there oppression under the "king that knew not Joseph;" an account of the birth, education, and flight of Moses; his solemn call to be the deliverer of Israel, and his return to Egypt; his interviews with Pharach, the infliction of the ten plagues, and the institution of the Passover. Then follows a narrative of their departure from Egypt, the passage of the Red Sea, with the destruction of Pharach and his hoat in the midst of it; the principal events on the journey from the Red Sea to Monnt Sinai; the bitter waters at Marah, the qualis, the manna, the water from the rock at Rephidim; the battle with the Amalekites, and the arrival of Jethro with Moses' wife and children in the Israelitish camp. In the second part of the book we have the promulgation of the law on Mt. Sinai, the preparation of the people by Moses for the renewing of the covenant with God, the promulgation of the moral law, the judicial law, and, lastly, the ceremonial law, including the construction and erection of the moral law, the judicial law, and hastly, the ceremonial isw, including the construction and erection of the tabernacle. In chape. xxxii-xxxix we have an account of the idolatry of the Israelites, the breaking of the two tables of the law, the divine chasticement of the people, and the renewal of the tables of the covenant. This book comprises a history of the events that took place during the period of 145 years, from the year of the world 2369 to 2514 inclusive, or from the death of Joseph to the erection of the tabernacle. Twenty-five pussages, according to Rivet, are quoted from E by Christ and his apostles in express words, and nineteen allusions to the same are made in the New Testam-nt. The authorship of the book is generally ascribed to Moses, though there have been many learned critica, both Jows and Christians, of a contrary opinion.

Ex ogems, n. pl. (Bot.) In the classification of Lindley, the 7th and largest class of plants. It is characterized by having the leaves reticul

sive additions to the outside of the wood, as the stems of the greater number of plants.

Exogo niuma, n. [Gr. exo, without, and gonic, angle.]
(Bot.) A genus of plants, ord. Convolvulacez. The species E. purga is a native of Mexico, near Chincanquiaco.

Its tubercular roots constitute the true jalap of the Materia Medica, so well known as a purgative.

Ex officio. [Lat., by virtue of officer of duty.] In general language, every act done by an officer either in prosecution of the general duty of his office, or in execution of some duty imposed by it is said to be done extended.

prosecution of nome duty imposed by it, is said to be done exofficio. But, in more strict phraseology, a proceeding exofficio is one taken by an officer of his own will, in execution of what he takes to be the duty of his office; as
where a justice of the peace demands and takes surety
at his own discretion, without the request of the injured

at its own discretion, without the request of the injured party.

Exomologe'sis, n. [Gr., from ex, from, and omologes, to agree to anything.] A common confession.

Exomological Exomological Exomological Section (Gr., from ex, from, and omphales, the navel.) (Med.) A hernia or ruptive of the common of the comm

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rains—ex, and onus, oneris, a burden. See ONEROUS.]
To free from a burden; to disburden; to unload; to cast To free from a burden; to disburden; to unload; to cast off, as a charge, or as blame resting on one; to exculpate; to absolve; to acquit; to clear; to justify; to discharge.

Exemera'tion, n. [L. Lat. exoneratio.] Act of exonerating or disburdening, or discharging; act of freeing

from a charge. ixom'erative, a. That exonerates; freeing from an

obligation.

Exephthal'smin, n. [Gr., from ex, out from, and ephthalmes, the eye.] The protrusion of the eyeball from the orbit. It is usually the consequence of concussion or blows; sometimes it is produced by a tumor in the orbit, which gradually pushes the eyeball out of its

Exophyllous, a. [Gr. es, from, and phyllon, a leaf.]

(Bot.) Applied to the young leaves of Exogens, since they are said to be ever naked, while those of Endogens. the each other.

SEMBLE CALL OF THE METERS OF T ked.

pluma is naked.

Ex'erable, a. [Lat. exorabilis, from exoro, exoratus—cs, and oro, to plead, to entreat, to pray. See Oraton.]

Ensy to be entreated; that can be persuaded; placable.

Exerbitance, or Exorbitance, n. [L.Lat. exorbitantia, from exorbitans, from exorbitan. Lat. ex, and orbita, a track or rut made by a wheel, from orbit, a circle, a ring. See Ora.] A going beyond or without the track or usual limit; irregularity; enormity; extravagance; a deviation from rule or the ordinary limits of right or propriety.

Exarbitant. a. [Fr. from L. Lat. exorbitans.]

Exerbitant, a. [Fr., from L. Lat. corbitans.] De-parting from the usual course; excessive; extravagant enormous; anomalous; not comprehended in a settled

rule or method.

rule or method.

Exerbitantly, adv. Enormously; excessively.

Exerbitantly, adv. Enormously; excessively.

Ex'oreisse, v. a. [Fr. exorciser, from Gr. exorkisō — ex, intensive, and orkisō, to bind by oath, from orkes, an oath, from ergō, eirgō, to shut in, to confine, to restrain.]

To administer an oath to: to charge upon oath; to adjure by some holy name; to pretend to expel evil spirits by conjurations, prayers, and ceremonies; to purify from unclean spirits by adjurations and ceremonies; to deliver from the influence of malignant spirits or demons.

demons.

Ex'erelism, n. [Gr. exerkizo, I conjure.] The conjuration of evil spirits, in the name of God or Christ, to depart out of a person possessed. About the 4th century, when all idolaters came to be looked upon as possessed of devils, it became customary to exorcise them previous to their being baptized. Soon afterwards it came to be a form generally employed in baptism even of children of Christian parents, who were also regarded as possessed of the devil before baptism. The words employed were, "I adjure thee, unclean spirit, that thou come out of this servant of Jesus Christ, in the name of the Father, and the Son, and the Holy Ghost." The Roman Catholics employ £ in three different cases:—in baptism, in demoniacal possession, and in blessing the chrism or holy water. chri or holy water.

chrism or holy water.

Ex'ereist. s. [Fr. exorciste; L. Lat. exorcista; Gr. csorkista.] One who pretends to expel evil spirits by conjuration, prayers, and ceremonies.

Exerclism, s., or Exonduns, s., pl. [Lat., from exercion, to begin a web, to lay the warp—ex, and order, to begin a web, from obselte ordism, a term in waving, from Lat. ordo, a straight row. See Onder.]

(Réd.) The beginning part of an oration. According to Goero and Quintilian, it ought to have one or other of three eads in view:—(1) to render the hearers beavolent, or to conciliate their good will; (2) to excite of three eads in view:—(1) to render the hearers beaevolent, or to conciliate their good will; (2) to excite
their attention; or (3) to render them docile, or open
to permassions. An E should be easy and natural, and
drawn either from the subject itself, or from the situation of the speaker. The ancients distinguished two
kinds of introductions — the principium and the invinustic. The former is where the orator plainly and directly professes his aim in speaking. In the latter the
crafter must take a larger compass and presuming the and the former is where the orator plainty and directly professes his aim in speaking. In the latter the orator must take a larger compass, and presuming the disposition of the audience to be against him, he must gradually reconscile them to hear him before he plainty unfolds the point he has in view.

Exerrhi's EFFh! me, s. pl. [From Gr. ezo, without, and riza, a root.] (Bot.) A term applied to the embryo of Dicotyledons, or exogens, inasmuch as the radicle always cougates downwards, directly from the outside of the

base of the embryo.
Exer'rhizal, Exer'rhizous, a. (Bet.) Noting the mole of germinating in exogens. (Dec.) Noting the mole of germinating in exogens. (Aresmose', Exosmo'sis, n. [Gr. ezo, without, and ermos, impulsion.] (Physiol.) The passage of gases, vapors, or liquids through membranes or porous media from within outwards. M. Dutrochet found that if two fluids of unequal density are separated by an animal or versible membrane the dense will attent the

has or vegetable membrane, the denser will attract the less dense through the membrane that divides them: this property he called membrane when the attraction is from the outside to the inside; and excesses when it operates from the inside to the outside of the body acted

Execute. a. Destitute of bones; boneless.

Execute. a. [Gr. ex., from, and stoma, a mouth.]

(364) A term sometimes applied to the passage through
the outer integument of an ovule, commonly called the

Execte'sis, s. [Gr., from ex, out of, and ostern, a bone.]
(Surg.) A morbid enlargement or hard tumor of a

bone. Exostoses are easily distinguished from other swellings by their being fixed and immovable, and at first unattended with any pain or inconvenience. There are three varieties, the solid, the hollow, and the foliated. There is no bone that may not become the seat of this disease, though some are much more subject to it than others. No external treatment is of any benefit in this disease. When it is necessary that they be removed, and it can be done with safety, it is effected by sawing or cutting. moved, and it can be seen as saving or cutting.

(Rat.) A disease to which the roots and stems of trees the same are formed upon

EXPE

(Bot.) A disease to which the roots and stems of trees are subject, when knots or large tumors are formed upon or among the wood. It is caused by a stoppage of growth on the one hand, and an attempt at excessive development on the other. These knots are sometimes called Anaura, and from them some of the most beautiful wood used by cabinet-makers is obtained. Exoterice, or Exoterical, a. [Fr. exoterique; Gr. exoterikos, belonging to the outside, from ezo, outward.] External; public; opposed to exoteric or secret. The exoteric doctrines of the ancient philosophers were those which were openly professed and taught.

Exotericisms, n. Exoteric doctrine or principles.

Exotic, or Exotical, a. [Fr. exotique; Gr. exotical, from exo, outward.] External; foreign; introduced from a foreign country; not native; extraneous.

from a foreign country; not native; extraneous.

A. A plant, shrub, or tree not native; a plant introduced from a foreign country; a word of foreign origin introduced into a language.

duced from a foreign country; a word of foreign origin introduced into a language.

Expand, v. a. [Lat. expando—ex, and pando, to spread out, to extend, to open, allied to Heb. patach, to open.] To spread out; to spread spart; to open; to enlarge a surface; to diffuse; to dilate; to enlarge in bulk; to distend; to enlarge; to extend.

—v. n. To open or spread out; to spread; to dilate; to extend in bulk or surface; to enlarge.

Expand'ed, p. a. Opened; spread out; extended; dilated; enlarged; diffused.

Expand'ing, p. a. Opening; spreading out; extending; dilating; diffusing.

Expand'ing, p. a. Opening; spreading out; extending; dilating; diffusing.

Expanse', n. [Lat. expansum, from expando.] That which is spread or stretched out; a surface widely extended; extent; a wide extent of space or body.

Expansibil'iy, n. The capacity of being expanded; capacity of extension in surface or bulk.

Expansibile, a. [Fr.] Capable of being expanded or spread; capable of being extended, dilated, or diffused.

Expansibile, a. Capable of being expanded; producing expansion.

ing expansion.

ing expansion.

ZEXPAM'Sidem, n. [Fr.; Lat. expansio.] (Physics.)

The enlargement or increase of bulk in bodies; generally the effect of heat. It is the result of raising the temperature of all bodies, solid, liquid, and săriform. The E of solids is comparatively small, the metals being the most affected by heat and cold. It is necessary to make provisions for E in metallic structures, otherwise description. Exn to make provisions for E in metallic structures, other-wise destructive effects must ensue, even from the changes in the usual range of atmospheric temperature. E in metals and liquids is variable, some expanding under the influence of the same temperature more than others, and the rate of E is not generally uniform for equal increments of heat. In most cases, all bodies equal increments of heat. In most cases, all bodies contract when the temperature is lowered; but there is a remarkable exception to this rule in the case of water, which begins to expand when lowered to 40° Fahr. The power evolved in the £ of water is very great. (See Warzer.) A brass globe having a cavity an inch in diameter can be burst by filling it with water and freezing, when the absolute force necessary to produce a like result is equal to 27,720 lbs. weight. Agriform bodies are the most expansible forms of matter, and they all expand and contract alike. As examples of E., the expansibility of mercury is applied in the construction of the common thermometer (q. v.); and in consequence of the E. or contraction of their pendu-lums and balance-wheels, clocks and watches go faster

lums and balance-wheels, clocks and watches go faster in cold weather, and slower in hot. — See PENDULUM. Expan'sion-joint, n. (Mcch.) The stuffing-box joint connecting the steam-pipes, so as to allow one of them to slide within the enlarged end of the other when the length increasees by expansion. Expan'sion-valve, n. (Mcch.) An auxiliary valve placed between the slide-valve and the steam cylinder; it is worked by a cam or other contrivance, so as to cut off the steam at a given period, and cause the remainder of the struke to be performed by expansion.

of the struke to be performed by expansion.

Expan'sive, a. [Fr. expansif.] That has power to expand; that expand; diffusive.

Expan siveness, s. The quality or capacity of being

Expect'able, a. [Lat.] To be expected or looked for.

Expect'amee, or Expectancy, n. [L. Lat. expectantia.] The act or state of expecting; something ex-

Expectance, or Expectancy, n. [L. Lat. expecunitia.] The act or state of expecting; something expected; hope,
Expect'ant.a. [Lat. expectans.] Looking earnestly
for; looking for; waiting for; depending upon something suspended.

One who awaits in hope or expectance; one held in

—a. One who awaits in hope or expectance; one held in dependence by his hope of receiving some good.
Expects'tiom, a. [Fr., from Lat. expectatio.] Act or state of looking forward to an event, with at least some hope or belief that it will take place; anticipation of future good or evil; prospect of good to come; trust in the future; the qualities that promise future excellence; the value of any property which depends upon a contingency. contingency.

(Med.) Leaving a disease to the efforts of nature.

contingency.

(Mcd.) Leaving a disease to the efforts of nature.

Expectative, a. Anticipating.

—n. Something expected.

Expect'er, n. One who waits for some person or thing.

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Expect'er, n. One who waits for some person or thing.

Expect'er, n. One who waits for some person or thing.

Expect'er, n. (Fr., from Lat. expectarans, from ex, and pectus, the breast.] Tending to promote discharges from the throat and lungs.

—n. (Mcd.) Medicine which increases the secretion of the tracheal and bronchial mucus. The substances that are used with this view are vary different and act in d tracheal and bronchial mucus. The substances that are used with this view are very different, and act in different ways. Vapors are the only agents that can act directly upon the organs affected; those that are taken into the stomach being capable of acting only in an indirect manner. The inhaling of the vapor of warm water simply, or mixed with certain medicinal subwater simply, or mixed with certain medicinal substances, as vinegar, is very useful in this way. Most medicines which, taken in large doses, act as emetics, are used as E., as squills, ipecacuanha, gum ammoniscum, &c. That most used in ordinary cases is syrup of squills. All substances, also, which excits irritation at the upper part of the wind-pipe, and produce coughing, act as E. When there is inflammation, the best E. are such as lessen the inflammatory state. Care is necessary in the selection of the agent to be employed in each case, as great injury may be done by using such as are unsuitable.

Expectorate, v. a. To elect from the them.

are unsuitable.

Expec'iorate, v. a. To eject from the throat or lung; to discharge phiegm, &c., by coughing.

—v. s. To discharge from the throat by hawking; to spit.

Expectoration, s. [Fr., from Lat. expectoratio.]

Act of discharging phiegm or mucus from the throat or lungs; the matter so discharged.

(Med.) In a state of perfect health, the vessels about the phermy and larger.

(Med.) In a state of perfect health, the vessels about the pharynx and larynx are constantly exuding a certain amount of mucus to insure the integrity of those organs, and which passes into the guilet without thought or notice. But the secretion that arises when disease takes place becomes of great consequence; for every condition of what is discharged, or of the sputa, as it is called, is a symptom, and shows the medical man the nature of the affection that causes it: for the discharge may vary from a thin, watery liquid, like saliva, to a tough, leathery-looking phlegm, and from a jelly-like mucus to a pure pus, or matter; while each, and all may assume every variety of shade and color, from a white form, to a green or blood-stained discharge. — A thin, frothy expectoration indicates influenza, bronchitis, or a common severe cold; when it is stringy, white, or thin, frothy expectoration indicates influenza, bronchitis, or a common severe cold: when it is stringy, white, or yellow, the probability is that the bronchitis has become chronic, or that whooping-cough has set in; when the expectoration becomes purulent, but thin, it indicates a serious affection of the lungs or air-passages; and when thick, and blended with listing masses, is a proof that ulceration of the lungs is present, or some abscess in the organ has broken. When, again, the expectoration is stringy and of a dull red or brick-dust color, it shows the presence of inflammation of the substance of the lungs, or pneumonia: and so on with all the other the lungs, or pneumonia; and so on with all the other differences, each pointing to some disease or stage of mischief.

Expectorative, a. Having the quality of promot-

Expectorative, a. Having the quality of promoting expectoration.

Expectoration.

Expectial (a. ). Aptness; fitness; suitableness; propriety; advantage; usefulness.

—Self-seeking at the expense of moral right.

Expectilent, a. Hastoning or advancing a proposed object; fit; profitable; useful; advantageous.

—n. A quick way or means; whatever tends to advance an end or object; shift; contrivance; resort.

Expectiential, a. Governed by expedience and convenience.

Expediently, adv. Fitly; suitably; conveniently. Expeditate, v. a. [L. Lat. expedito, from ex, and per, the foot.] To exsect the claws, so that a dog may

Expan'siveness, n. The quality or capacity of being expanded.

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Expan'siveness, n. The quality or capacity of being expanded.

Expan'siveness, n. The one part.] (Law.) Proceeding from only one part of a matter in question.

Expan'siate, v. n. [Laisz, out, and spatiari, to spread out.] To get out of the course; to move about; to rove at large; to enlarge in discourse or writing; to be copious in illustration.

—c. n. To cause to roam abroad; to diffuse; to extend.

Expan'siation, n. The act of expatiating.

Expan'siation, n. The act of expatiating.

Expan'siation, n. The capacition from inderance; to hasten or quicken the motion of; to dispatch; to send from; to hasten by rendering easy.

—u. Unimpeded; easy; agile; quick; prompt; unincumbered.

Expan'siation, n. [Fr. expatrier, from Lat. ex, and patria, country.] To expel or remove from one's country, or voluntarily forsaking it.

Expan'siation, n. [Fr.] The being banished from one's country, or voluntarily forsaking it.

Expectilete, v. a. [Lat. expecting of the claws of a dog.

Expedition, n. The exsecting of the claws of a dog.

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Expedition, n. The exsecting of the claws of a dog.

Otherwise the foot.] To expedition, n. The extricate the foot.] To free from hinderance; to hasten or quicken the motion of; to dispatch; to send from; to hasten or quicken the foot.] To free from hinderance; to hasten or quicken the foot.] As a consequence.

Expedition, n. [Fr. expedition],

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dispatch.

Expedi'tiousmess, n. The quality of being rapid.

Expedi'tiousmess, n. The quality of being rapid.

Expel', v.a. [Lat. ex, and pedere, to drive out.] To force to leave; to eject; to banish; to exile; to reject.

ExpelTable, a. Capable of being driven out.

Expend', v.a. (Lat. ex, and pendere, to weigh out.)

To lay out money; to pay out; to disburse, spend, deliver, or distribute; to use, or employ; to dissipate; to

waste.

v. n. To be laid out, used, or consumed.

Expen'diture, n. Act of expending; disbursement; money expended.

Expense, n. [L. Lat. expense. See Pecunia.] Outlay;

Expense', n. [L. Lat. expensa. See Pecunia.] Outlay; consumption; cost; charge. Expensa we, a. Requiring much expense; costly; dear; given to expense; free in the use of money; extravagent; lavish.

Expen'sively, adv. With great expense; at great

Expensisively, adv. With great expense; at great cost or charge.

Expensisivemess, n. Quality of being expensive; custiness; quality of being addicted to expense; extravagance.

Experience, n. [Fr. experience; Lat. experientia, from experior—ex, and obsolete perior; Gr. peirao, to attempt, to endeavor, to try.] Trial; proof; test; essay; attempt; experiment; a serice of trials or experiments; cative effort or attempt to do or to prove something, or repeated efforts; observation of a fact, or of the same facts or events happening under like circumstances; trial from suffering or enjoyment; suffering itself; the use of the senses; knowledge derived from trials, use, practice, or from a series of observations.

—e. a. To try: to prove; to essay; to make trial of; to try by use, by suffering, or by enjoyment; to know by practice or trial; to gain knowledge or skill by practice, or by a series of observations.

Experienced, p. a. Tried; used; practised; suffered; enjoyed; taught by practice, or by repeated observations; skilful or wise by means of trials, use, or observations.

Experiment, n. [Lat. experimentum, from experior, to try.] A trial; a proof; an act or operation designed to discover some unknown truth, principle, or effect, or

to discover some unknown truth, principle, or enect, or to establish it whon discovered.

-c. n. To make trial; to try; to search by trial; to make an experiment; to operate on a body in such a manner as to discover some unknown fact, or to establish it when known.

Exper'iment, in Virginia, a post-office of Amherst

county.

Experimen'tal, a. [Fr. expérimental.] Pertaining to experiments; known by experiment or trial; de-rived from experiment; built on experiments; founded on trial and observations, or on a series of results, the officts of operations; taught by experience; having personal experience; as, experiencal Christians. Experimen'talist, n. One who makes experiments. Experimen'tally, adv. By experiment or experiments.

Experimen'tally, aze. By experiment or experi-ence; by trial.

Experimen'tal Philosophy deduces the laws of nature, the properties of bodies, and their mu-tual actions upon one another, from experiment and observation. The distinction between deductive and exobservation. The distinction between deductive and experimental philosophy is clearly pointed out in the foliowing quotation from Sir John Herschel: "A clever man shut up alone and allowed unlimited time, might reason out for himself all the truths of mathematics by proceeding from those simple notions of space and number of which he cannot divest himself without ceasing to think; but he could never tell by any effort of reasoning what would become of a lump of sugar if immersed in water, or what impression would be produced on the eye by mixing the colors yellow and blue." E. P. then is founded on ocular demonstration, or that which cannot be denied without yiolating common sense or cannot be denied without violating common s clear perception.

clear perception.

Exper'imenter, n. One who makes experiments; one skilled in experiments.

Exper'imentist, n. One who makes experiments.

Exper'imentist, n. One who makes experiment of the cross.] A term applied by Eucon to any leading or decisive experiment:—either from its being like a cross or direction-post, placed by the roadside to guide travelers in the right path, or on account of its being a kind of torture to elicit the truth, as the cross was used like the rack for that nursos in ancient times.

of torture to elicit the truth, as the cross was used like, the rack for that purpose in ancient times.

Expert, n. (Law.) A person selected by a court, or by parties in a cause, on account of his knowledge or skill, to examine, estimate, and ascertain things, and make a report of his opinion.

Expert', a. [Fr. expert, from Lat. expertus, from expertor. See Experience.] Tried; proved; experiences; taught by use, practice, or experience:—hence, skilful; well instructed; having familiar knowledge of; dexterque: adroit: ready: prompt; clever: having a facility of ous; adroit; ready; prompt: clever: having a facility of operation or performance from practice.

Expert'1y, adc. In a skilful or dexterous manner; adroity; with readiness and accuracy.

Expert'ness, n. Quality of being expert; skill derived from practice; readiness; dexterity; adroitness; clever-

ness; tact.

Ex'piable, a. [L. Lat. expiabilis.] That may be explated; that may be atoned for and done away.

Ex'plate, v. a. [Fr. expier; Lat. expia, expiatus—ex, and peo, from pius, dutiful, plous, devout. See Provs.]

To make satisfaction or atonement for; to atone for; to extinguish the guilt of a crime by subsequent acts of plety or worship, by which the obligation to punish the crime is cancelled; to make reparation for.

Expira'tion, n. [Fr., from Lat. expiratio.] (Physiol. The movement by which the air that has been change The movement by which the air that has been changed by the respiratory process is expelled from the lungs. It is chiefly due to the elastic contraction of the lungs and the walls of the chest, after they have been dilated by the act of inspiration. The last emission of breath death.—Exhalation; vapor; fume.—Cessation; close; end; conclusion; termination of a limited time.

Explimatorry, a. That expires; pertaining to the emission or expiration of breath from the lungs.

Explime', v. a. [Lat. expiro—ex, and spiro, to breathe. See Spirat.] To breathe out; to throwout, as the breath from the lungs; to exhale.—To emit in minute partifications.

See SPIRIT. To breathe out; to throw out, as the breath from the lungs; to exhale. —To emit in minute particles, as a fluid or volatile matter.

—p. n. To emit the last breath, as an animal; to die; to breathe the last; to perish; to end; to fail or be destroyed.

—To come to nothing; to be frustrated. —To cease; to terminate; to close or conclude; to come to an end, as a

given period.

Expiring, a. Dying; pertaining to, or uttered at the time of dying.

Expiring, a. [Lat. expisor—ex, and pisor, pison cates, v. a. [Lat. expisor—ex, and pisor, pison cates, to fish, from pisots, a fish. See Pisotrony.] To calus, to fish, from piscis, a fish. See PIBCATORY.] 10 fish out; to search out; to obtain by artful means. (a.) Explain', v. a. [Lat. explano—ex, and plano, from planus, even, level, fist, plain. See Plain.] To make plain, manifest, or intelligible; to clear of obscurity; to expound; to interpret; to illustrate; to elucidate; to clear up.

—n. To give explanations.

to clear up.

—v. n. To give explanations.

Explain able, a. Capable of being explained or made plain to the understanding; capable of being interpreted.

Explain'er, n. One who explains; an expositor.

Explain'ing, p. a. Expounding; illustrating; interpreting; opening to the understanding; clearing of observity.

scurity

—n. Explanation.

Ex'planate, a. (Bot.) Outspread or broadly flattened.

(ZoH.) Applied to the prothorax of an insect, when so depressed and dilated as to form a broad margin. 
Explanation, n. [Lat. explanatio.] Act of explaining, expounding, or interpreting; act of clearing from obscurity and making intelligible; the sense given by the expounder or interpreter; explication; exposition; illustration; interpretation; detail; a mutual exposition of terms, meaning, or motives, with a view to adjust a misunderstanding and reconcile differences; reconciliation. conciliation.

conciliation.

Explan'atoriness, n. Quality of being explanatory.

Explan'atory, a. [L. Lat. explanatorius.] Serving to explain; containing explanation.

Ex'pletive, a. [Fr. explétif; L. Lat. expletious, from explo, expletius—ex, and pleo, to fill. See PLENARY.]

Serving to fill out, or to supply a vacancy; added for annuly or or prament. supply or ornament.

1. A word or syllable not necessary to the sense, but in-

auply or ornament.

a. A word or syllable not necessary to the sense, but inserted to fill a vacancy or for ornament.

Ex'pletively, ab. In the manner of an expletive.

Ex'pletory, a. Serving to fill out; expletive.

Ex'plicable, a. [Fr., from Lat. explicabile.] That may be unfolded to the mind; explainable; that may be made intelligible; that may be accounted for.

Ex'plicableness, n. Quality of being explicable.

and plico, to fold.] To unfold; to explain; to clear of difficulties or obscurity; to interpret.

—a. Evolved; unfolded; explained.

Explication, n. [Fr., from Lat. explicitus. See Pl.I.]

Act of explaining; explanation; exposition; interpretation; the sense given by an exposition or interpretation or interpretation; the sense given by

understanding.

Explicator, n. One who unfolds or explains.

Explic'it, a. [Fr. explicite; Lat. explicitus.] Unfolded; plain in language; clear; not obscure or ambiguous; express, not merely implied; open; unreserved; definite; having no disguised meaning or reservation.

Explic'itly, adv. In an explicit manner; plainly; expressly

Explic\*1117, adv. In an explicit manner; plainly; expressly.

Explic\*(tiness, n. State of being explicit; plainness of language or expression; clearness; direct expression.

Explode\*, v. a. [Lat. explodo—ex, and plaudo, to clap, strike, or beat upon. See Plauder.] To drive out or expel with marks of disapprobation; to reject, or repudiate, with disapprobation, disdain, or contempt; to drive out of use or practice; to discharge; to drive out, or cause to burst with violence and noise.

— n. To utter a report with audden violence: to burst.

to burst with violence and noise.

-c. n. To utter a report with sudden violence; to burst
and expand with force and a violent report.

Explod'ed, p. a. Driven away by hisses or noise; rejected; condemned; cried down; burst violently.

Explod'er, n. One who explodes.

Exploit's, n. [O. Fr. exploite; Fr. exploit, from Lat.
explicare, explicatus, to unfold. See Exputanta | That
which is developed exhibited parformed accomplished.

expicare, expineatus, to untoid. See EXPLICATE. That which is developed, exhibited, performed, accomplished, or achieved; a deed or act; more especially, an heroic act; a deed of renown; a great or noble feat or achievement. Exploration. Act of exploring; close search; strict or careful examination.

Expedi'tiously, adv. Speedily; with celerity and dispatch.

Expedi'tiousness, n. The quality of being rapid.

Expedi'tiousness, n. The public of being which explores.

Explor\*patery, a. [Lat. exploratorius.] Serving to explore; searching out; examining.

Explore\*po. a. [Lat. exploro—rex and ploro, to cry out, to wall.] To seek to obtain by weeping; to search out; to seek to discover; to view with care; to examine closely by the eye; to search by any means; to try, as the see with a plummet; to scrutinise; to search or pry into: to inquire into with ears; to average closely rays.

the sea with a plummet; to scrutinize; to search or pry into; to inquire into with care; to examine closely with a view to discover truth.

Explored', p. a. Searched; viewed; examined closely.

Exploreing, p. a. Searching; viewing; examining.

Exploring, a. [Fr.; Lat. explosio.] (Phys.) The sudden and violent expansion of the sides of any object, accompanied by a loud report. E. is always sudden and of momentary duration, while expansion is the effect of some gradual, continued power acting uniformly for some considerable time. E. of some solids, as gunpowder, &c., results from their elements suddenly entering into new combinations and assuming the gaseous state.

some gradual, continued power acting uniformly for some considerable time. E of some solida, as gunpowder, &c., results from their elements suddenly entering into new combinations and assuming the gaseous state.

Explo\*sive, a. That explodes; driving or bursting out with violence and noise; causing explosion.

Explo\*sively, adr. In an explosive manner.

Expo\*ment, m. [Lat. exponents, from expono—ex, and pono, to set, to place. See Position.] That which sets forth; that which points out or indicates; an index; one who stands as an index or representative.

(Alyo). The index of a power; a number, or a symbol representing a number, which, when written above and to the right of any symbol of quantity, indicates that a corresponding power of that quantity is to be taken.

Expomen\*fial, a. [Fr. exponential.] Pertaining to an exponent or exponents.

E. equation. (Math.) An equation which involves terms wherein the unknown quantity appears as an exponent or as a constituent of an exponent. The simplest form of exponential equation is  $a^* = b$ ; one of its solutions is the logarithm of b to the base of a, or, what is the same thing, the ratio of the logarithm of b to that of a, the bases being the same, but arbitrary. This is only one solution; the equation has innumerable other imaginary roots, and is consequently transcendental. A curve in whose equation the colirdinates appear as exponents in in like manner, called an exponential curve.

Export'e, v. a. [Fr. exponer; Lat. exportare, to carry out.] To bear or carry out; to convey or transport produce or goods from one country to another;—used chiefly in the plural—export.

Export'e, v. a. [Fr. export; Lat. exportatio.] Act of conveying in traffic goods or productions from one country to another;—used chiefly in the plural—export.

Export'er, n. One who exports;—opposed to importer.

Export'er, n. One who exports;—opposed to importer.

Expose', v. a. [Fr. exporter]. A formal statement, oral or written.

Expose', v. a. [Fr. exporter]. A formal statement, oral or written

Expos'ed. p. a. Unprotected; liable to attack.
Expos'edmess, n. Act of exposing, or state of being

exposed.

Expose'er, n. One who exposes.

Expose'rion, n. [Fr., from Lat. expositio.] Act of exposing; laying open; setting to public view; a public exhibition or show.— Interpretation; expounding; explanation.—Situation with reference to view or climate.

Expose'ifive, a. [Fr. expositif.] That sets forth; laying

open; explanatory. Exposition; from Lat. exposere.]
One who expounds or explains; an interpreter.—A book
that expounds and explains.

Expos'itory, a. Explanatory; serving to illustrate; exegetical.

Exposition, a. Explanatory; serving to illustrate; exceptical.

Ex post fac'to. [L. Lat., literally, by something done afterwards.] (Law.) A phrase used to denote something done after the conclusion of another thing; retrospective. An estate granted may be made good by matter ex past facto, which was not good at first. Ex past facto laws are such as are made to operate or bear upon acts committed previously to the making of such laws, and are therefore retrospective in their operations. In criminal cases, an ex post facto law is one that renders an act punishable in a manner in which it was not punishable at the time it was committed; or altering the rules of evidence, so as to allow different or less evidence to convict the offender than was required when the crime was first perpetrated. By the Constitution of the U. States, Art. 1, § 9, Congress is forbidden to pass ex post facto laws; and by § 10, subdiv. 1, of the same instrument, as well as by the constitutions of many, if not all, of the States, a similar restriction is imposed upon the State legislatures. upon the State legislatures

upon the State legislatures.

Expos'tulate, r. a. [Lat. expostulars, to ask from.]

To demand urgently; to require; to find fault; to remonstrate; to debate; to reason earnestly with any one on the impropriety of his conduct.

Expostulation, n. [Lat. expostulatio.] The act of reasoning with a person in opposition to his conduct:

remonstranc

remonstrance.

Expos'tulatory, a. [L. Lat.] One who expostulates.

Expos'tulatory, a. Containing remonstrance.

Expos'ulatory, a. [See Exposs.] Act of laying open; state of their laid open to any danger or inconvenience; con-

dition of a place as regards being exposed to the access of air or light, or to the points of the compass.

"The exposure of this house is unwholeson
Digitized by

an interpreter.

Epseud, e. a. [Fr., from Lat. expressus, pp. of exprisers, to press out.] To set forth in words; to speak, write, or engrave; to utter, declare, or assert; to exhibit by copy; to form a resemblance of; to indicate.

Clear; plain; direct not seekless.

a. Clear; plain; direct; not ambiguous; intended for a purpose; employed for regular and speedy conveyance.

A memenger or vehicle sent on a special occasion; the message or despatch sent; any regular conveyance sages or despatches.

a.) In the U.S., a system organized for the

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of messages or despatches.

(Oss.) In the U. S., a system organized for the transportation of merchandise and parcels, and for the collection and transmission of money. Upon the completion of a railroad between New York and Boston, residents of those cities and the intermediate towns made a practice of sending parcels back and forth in care of the train men. This habit soon grew into an abuse; and, as an outcome of the railroad company's efforts to break it up, one of the conductors on the Boston & Worcester Railway—W. F. Harnden—was summarily discharged. In 1838 Harnden and J. W. Hale effected an arrangement with the companies for a regular "express" service, via Providence; and thiswent into effect March 4, 1839. Alvan Adams started a vival express business between New York and Boston, via Norwich in 1840. From this time the railroadsgenerally took up the idea, and by 1845 there was an express service connecting all the principal cities of the East and West. For a time the companies carried letters, but the government shortly prohibited this. The Wells, Fargo & Co. express was established between St. Louis and San Francisco in 1854, doing an immens. (Com.) bosiness bullion in shipments by overland coaches, besides carrying the mails, under the name of the Overland Mail Co., until the completion of the Union Pacific rallroad. This courts as is still one of the union Pacific

Expound', v. a. [Lat. exponere, to lay or set out.] To—a. A person over-carefully dressed; a fop, or dandy. est out; to explain the meaning of; to interpret.

Expound'er, n. One who explains the meaning of;

perception. perception.

Ex'quisitemess, n. Nicety; accuracy; keenness of

perception.

Exsanguin'ity, n. (Med.) Want of the due amount of blood.

of blood.

Exsangmin'eous, Exsan'guinous, Exsan'suious, a. [Lat. ex, and sanguis, blood.] Deficient in the proper amount of blood, or seeming bloodless, as a person after a copious hemorrhage.

Exsat'urate, v a. [Lat. ex, intensive, and satur, full.] To impregnate or fill thoroughly.

—a. Completely filled; as, "Exsaturate with joy," Millon.

Exsecind', v. a. [Lat. execindere, to cut off.] To cut off; to remove from fellowhip.

Exserip'tural, a. Not to be found in the Bible, or contrary thereto.

contrary thereto.

Exacu'tellate, a. (Zod.) Applied to an insect which has no visible scutellum, it being wholly covered by the

iug, or project-ing beyond some other some other part, as stamens.
(Zvöl.) Applied to the head of an in-

sect, when quite disen-gaged from the



tion of his subject, as to be unable to enter upon its development. This forms a stumbling-block to many in attempting to become good speakers; and it frequently occurs with men of genius. He, therefore, who would speak well, must feel what he has to say with sufficient strength to express it with warmth and vivacity; but his feeling must not attain that vehemence which prevents the mind from acting, and paralyses the expression, from its very fulness. In speaking, the feelings have to be resolved into ideas, thoughts, images: ity; but his feeling must not attain that vehemence which prevents the mind from acting, and paralyses the expression, from its very fulness. In speaking, the feelings have to be resolved into ideas, thoughts, images; and these into words, phrases, language. The main idea of the subject has to be firmly grasped; and in its exposition it has to be divided into its principal parts or members, and these into subordinate parts; and so on until the subject is exhausted. The imagination is one of the most necessary faculties to the extempore speaker; it ought to be endowed with great quickness in the formation and variation of its pictures, and also with great clearness, in order to produce, at first effort, a well-marked image, the lines and outlines defined with great exactness, and the colors bright, so that language has only to reproduce it unhesitatingly and unconfusedly. In many men, even of talent, the imagination is not sufficiently ready and clear; it works too slowly, owing either to a natural deficiency, or, more frequently, to a want of practice. To many, again, the excitement of appearing in public is so great as to produce a certain incapacity of speaking, not unlike inability to walk from giddiness. The great means of getting over this is to feel perfectly sure of what you are going to may, and to have a clear conception of it. The public speaker requires to be able to think methodically; and for that purpose he ought to study logic, and the works of the best authors; he ought, also, to acquire such a mastery over his own thought, as to be able to decompose it into its parts, to analyze it into its elements, and then, at need, to re-compose, regather, and concentrate it again by a synthetical mocess. Now, this can be well done only by writhentures to speak. In learning to write, one in initiation of the great masters of oratory, wonderful clearness and intensity to able to be the part of the control of the part in the town of the pressure of oratory.

wonderful clearness and intensity to bles us to look at a subject in every eideration of a subject, the best way to the main idea, and regard it e, the different faculties of tho the different faculties of the oselves upon this single point; over in every direction, and principal parts then come unselves from each other, loped, until they reach

of subjects, more particularly such as are regarded as forming part of a liberal education; for we can extemporize only what is already in the mind. It is of importance, too, that all we know be strougly conceived, firmly linked together, and carefully wrought out in such a way that, throughout all the diversity of knowledge, the mind, so far as may be, shall admit nothing save what it thoroughly comprehends, or, at least, has made its own, to a certain extent, by meditation. Further, in public speaking, thought has to be clothed in language; and some attention to this is likewise necesary, in order that the subject may appear in as favorable a dress as possible. For this purpose, one ought to cultivate assiduously that natural desire of communicating to others what he knows, and of making them see things in the same light that he sees them. The oreg with information on a great variety mind seizes upon a thing more quickly, and conceives it more clearly, when there is also present to the mind the idea of communicating it to another; and thus, also, a idea of communicating it to another; and thus, also, a natural desire is fostered for public speaking. In the details of diction, at the moment of public speaking, great decision is necessary, in order to clothe the ideas in proper words as they fly past, and, amidst many unsuitable, to allow none but such as are proper to escape from the lips. The speaker, however, at first, ought not to be too nice in this respect; especially, when once he has begun a sentence or an idea, he ought to go on daringly to the end, even though he may have to take refuge in some incorrectness of language, or some unauthorized turn of expression. Decision, and even rashness, are necessary for him who would make a good public speaker. Finally, the understanding which sees rightly, and conceives clearly, and the heart which feels keenly, soon come to find naturally, and without effort, the words and the arrangements most analogous to what is to be expressed.

the words and the arrangements most analogous to what is to be expressed.

Extemporization, n. The art, or act of speaking without previous preparation; providing with unsuitable tools, or materials, that which is immediately necessary. — See Extempors Speaking.

Extemporize, r. n. To speak, write, act, or provide without any suitable preparation; to do anything in a hasty, off-hand manner; to speak in public without written notes.

written notes.

written notes.

-r. a. To do anything without sufficient time, or proper material for the purpose.

Extem'porizer, n. One who speaks without previous study, or written notes; one who arranges anything without due previous notice.

Extend', v. a. [Lat. extendere, to stretch out.] To draw

res'sively, adv. In a manner distinct and clear the min

Expres'siveness, s. Power of representation by words or signs.

Express'ly, adv. Not by implication; plainly; dis-

tactly. Expremis'siem, s. (Civil Law.) A species of novation, as a creditor's acceptance of a new debtor, who
takes the place of the old debtor, who is relieved.
Expremissor, s. (Civil Law.) One who assumes
the debt of another and becomes alone bound.
Expugm. (ex-puss', v. a. [Last. expugmare, to take by
assalt, from ex, and pugma, a battle.] To take by assalt; to storm; to capture; to reduce; to subdue.
Expugm'able, a. Capable of being forced or conquered.

"A city by no arts of ours expug-

"A city by no arts of our sayugnable."—Spenser.

Expun'sion, n. A taking by assault; conquest.

Expul'sion, n. [Fr., from Lat. expulsio, from expellers, to drive out.] Act of driving out; state of being driven away, with, or without, violence.

Expul'sive, a. [Fr. expulsio]. Having the power of driving out; as, "an expulsion bondage."—Wiseman.

Expune'tion, n. [Lat. expunctio.] Condition of being freed from errors.

Expurget, v. a. [Lat. expurence, to sting; to prick out.] To blot out; to efface; to erase; to obliterate; to destroy; to render invisible.

Expurgate, or Expurgate, v. a. [Lat. expurgare, to clean out.] To render clean; to purify; to free from what is offensive.

Expurget them. a. [Fr. from Lat. expurential.] A

Expurgation, s. [Fr., from Lat. expurgatio.] A cleaning out; a purification; a freeing from what is of-

Expurgator, or Ex'purgator, n. One who cleanees, frees, or purifies.

Expurgatorial, a. Serving to cleanse, purify, or free from errors.

Expurgatory, a. [Fr. expurgatoire.] Cleansing; purifying: freeing from anything noxious, or erroneous. Exquisities; Fr. expuis.] Sought carefully: choice; select; nice; exact: highly finished. - Maturely considered; delicate; refined; matchless.

Exsuc'cous, a. [Lat. ex, and succus, juice.] wanting sap.

Exsuc'tiom, n. [Lat. exsuctio, from exsugere, to suck out.] The act of sucking out.

Exsuda'tiom, or Exuda'tiom, n. [Lat. exsudatio.]

A sweating out; an extillation; an emission.

Exsuma'tiom, n. [Lat. exsuffatio, a breathing, or blowing out.] A ceremony in the rubric of the Catholic Church, for exorcising persons possessed.

Extant's, a. [Lat. extans, from exstart, to stand out.]

Standing out; protruded: actually in being; now subsisting; as, "All his extant works." — Johnson.

Extant's as, "All his extant works." — Johnson.

Ex'tay, n. See Ecstay.

Extat'le, Extatical, a. See Ecstatic.

Extemporaneous, a. [Lat. extemporaneus, from ex, and tempus.] Springing from the time or occasion; coming from the inpulse of the moment; unpremeditated; composed, performed, or uttered without previous study Extempora'neously, adv. Without previous study. Extempora'neousness, n. The quality or faculty of being unpremeditated.

of being unpremeditated.

Extem/porarily, adv. Without previous study, or deliberation.

Extem/porary, a. [Lat. ex, and temporarius.] Arising from the circumstances; composed, performed, or uttered without premeditation.

Extem pore, adv. [Lat.] In an extemporary manner; unpremeditatedly; on the spur of the moment.

"The bablt of speaking extempore."—Blair.

—a. Unpremeditated; without previous reflection.

Extem'pore Speaking. [Lat. ex, and temporarius, lasting but for a time, temporary.] (Rhet.) The art of clearly and forcibly expressing one's ideas upon any subject without previous preparation, at least as regards the words; for, strictly speaking, every extem-porized speech pre-supposes a preliminary operation of thought. Before extemporizing a speech, it is necessary to have the foundation of the discourse fixed on the mind, and the succession of thoughts to be expressed. There should reign between all its parts an order of fili-There should reign between all its parts an order of fillation, or generation, the one idea naturally producing
the other; and they should be so disposed that each
may be found in the very place marked out for it, the
moment it is required. The great requisite in E.S. is
to have clear and distinct ideas regarding the subject on
which one is about to speak. In order to speak forcibly
and clearly, one must begin by feeling vividly, and then
clear ideas on the subject will naturally follow. It
should not, however, obtain such possession of the mind
as to prevent it from acting; for the mind of the speaker
may become so completely absorbed in the contempla-

read cars. Shipments of money are annually about \$1,000,000,000 which \$2,000,000,000 are transported for individuals and \$1,500,000,000 for the government. 
Expressingle, a. The amount to be paid for any parcel by express.

Expressible, a. Capable of being squeezed out, or of being uttered, represented, stated, or declared. 
Expression. a. [Fr., from Lat. expressio.] Act of expressing; forcing out by pressure; extorting or eliciting.— Elocution; diction; peculiarity of utterance or mental tone.—(Fine Arts.) The representation of the various passions of the mind. 
Expressive, a. [Fr. expressis]. Serving to express, utter, or represent; Serving to express, utter, or represents the serving to the catholic charge of saliva; a spitting of phiegm from the lungs or trachea. 
Exsue\*tiom, n. [Lat. expand succus, juice.] Wanting stem.

Exsue\*tiom, n. [Lat. expandition, as pitting out.] A discharge of saliva; a spitting of phiegm from the lungs or trachea. 
Exsue\*tiom, n. [Lat. expandition, as pitting out.] A discharge of saliva; a spitting of phiegm from the lungs or trachea. 

Exsue\*tiom, n. [Lat. expandition, as pitting out.] A discharge of saliva; a spitting of phiegm from the lungs or trachea. 

Exsue\*tiom, n. [Lat. expandition.] Exsue\*tiom, n. [Lat. expandition.] Exsue\*tiom, n. [Lat. expandition.] A sweating out; an extillation; an exiliation; and succus, juice.] Serving to expression. 

Exsue\*tiom, n. [Lat. expandition.] A sweating out; an extillation; an emission. 

Exsue\*tiom, n. [

EXTI

Extem'sile, a. Capable of extension.

Extem silem, n. [Fr., from Lat. extensio.] Act of expanding, stretching, or reaching.—State of being expanded, stretched, or dilated.—That property of a body causing it to occupy place in space.

(Logic.) A term used in contrast to comprehension, and, as applied to a general notion, denoting the number of objects included under it. By detaching properties from a notion, we extend the list of objects to which it applies; by narrowing the sphere of a notion, the qualities which it comprehends proportionally increase. Thus, the greater the E. of common terms, the less the comprehension, and vice sersa.

(Com.) An engagement by which a creditor allows to his debtor further time for payment.

Extem'siomal. a. Having great extent.

Extem'siomal. a. He who favors the doctrine of extension.

tension.

Exten'sive, a. [L. Lat. extensions.] Having great extent; wide; large; comprehensive; widely diffused. Capable of extension.

Exten'sively, adv. Largely; to a great extent; a

Exten'sively, adv. Larg a story extensively circulated Exten'siveness, n. Qua tended; largeness.

s, n. Quality or state of being ex-

Exten'sor, n. [Lat.] (Anat.) Any muscle that serves to extend or straighten a member of the human body;—antagonistic to the Flezor, which bends the limbs or

members.

Extent', n. [L. Lat. extention, the thing drawn out, from extendo.] Space to which a thing is extended; compass; degree; bulk; size.

(Eng. Law.) An execution by which the body of the debtor and his property might be taken immediately to

enforce due payment. In various States of the American Union the term is some times used to denote writs which give the creditor pos-session of the debtor's lands for a limited time till the

debt is paid.

ixton'unte, v. a. [Lat. extensare, from ex, and tensis, lean.] To render thin, lean, or lengthy; to make long, or alender. — To lessen; to diminish.

v. a. To become thin, subtle, or slender; to be drawn

out, or extenuated. Exten'uatingly, adv. By way of palliation, or ex-

Exten'untingly, adv. By way of palliation, or extenuation.

Extenuation. n. [Fr., from Lat. extenuatio, from tenuis, thin.] Process of becoming thin; act of loring fiesh; representation of anything as less wrong than is the fact; palliation; mitigation.

Exten'untory, a. One who palliates, or alleviates.

Exten'untory, a. Leading to palliate, or lighten.

Exterior.a. [Fr. exteriour, from Lat. exterior, compofexterus, outside.] Outward; outer; foreign.

—Extrinsic; external, with reference to persons; as, "Without exterior aid he must now fail." — Kilton.

Exales. (Geom.) The angle included between any

without exterior aid he must now fail."— Killon. K angle. (Geom.) The angle included between any side of a polygon, and the prolongation of the adjacent one; also the angle formed on the outside of two parallel lines by a third line which crosses them. So, in Fig. 95, A FI, I FB, CHG, and CHD, are exterior angles.

The outer surface: whatever is external: the visible

deportment of a person; appearance.
-s. pl. The outward parts of anything; visible acts; external deportment; forms or ceremonies.

"While his enteriors were familiess, the heart was corrupt." Jo.

Exteriority, n. Outwardness; superficies; surface.
Exteriority, adv. Externally; on the outside.
Exteriminate, v. a. [Lat., from ex, and terminus, a limit.] To drive beyond the boundaries; to drive away; to root out; to exterminate; to take away.
Exteriminated, p. a. Destroyed; eradicated; taken

away.

Extermination, s. Total destruction; elimination.

Exterminative, a. That which destroya, expels, or

eradicates.

Exterminator, s. One who destroys or expels, takes away or eradicates.

Exterminatory, a. That leads to destroy.

Extermi, s. [Lat. exterms, outside.] A pupil belonging to an academy or college, but living beyond its bounds.

Extermal, a. Outward; exterior; visible; apparent;

— Foreign: not connected with the home polity.— Having an outward annearance. ing an outward appearance.

nei act of idelatry." — Stillings " The exte

External'ity, s. Existence in space; exteriority; separation from the faculties of perception.

Exter'mally, adv. In appearance; outwardly; visibly.

Exter'mals, s. pl. Things not essential to the intrinsic value; outward show; ceremonies, &c.

Exterra'neous, a. [Lat. ex, and terra, land.] Coming from shound.

ing from abroad.

Exterritorial'ity, s. The condition of being beyond

the limits of a country.

"As his (the Pope's) exterritoriality prevents his bestate in the country."—Peel.

Extersion, n. [Fr., from Lat. extersio, a wiping out.]
The act of rubbing or wiping out.
Extinct', a. [Lat. p. of extinguere, to put out, to extinguish.] Extinguished; quenched; put out. "Extinct as tow." (Isaiah.) — Terminated; closed; annihilated; abolished; destroyed.

Extend'ible, a. Capable of being enlarged, or widened; that may be expanded, or stretched.

Extensibil'ity, n. [L. Lat. extensibilitas.] Capacity of suffering axtension.

Exten'sible, a. [Fr., from Lat. extensibilits.] That may be extended; succeptible of enlargement.

Exten'sible a. Capable of extension.

Exten'sible, a. Capable of extension.

Exten'sible, a. Capable of extension.

Exten'sible, a. That may be quenched or department.

Exten'sible, a. That may be quenched or department.

Exten'sible, a. That may be quenched or department.

"Her viruse that extinguish art." — Sheke.

Extin guishable, a. That may be quenched or destroyed.

Extin guisher, n. One who puts out or extinguishes.

A hollow conical instrument used to put out the light

of a candle

A hollow conical instrument used to put out the light of a candle.

Extin'guishmemt, m. Act of extinguishing or putting out, or quenching; extinction; suppression; destruction; sholition; nullification; a putting an end to, or coming to an end; termination.

Extir'pable, a. That may be extirpated or eradicated.

Extir'pate, v.a. [Fr.extirper; Lat. extirpo, extirpatus; ex, and stirps, the lower part of the trunk of a tree, stock, root; probably allied to STEM, v. v.] To pull or pluck up by the roots; to root out; to eradicate; to destroy totally; to exterminate; to cut out; to cut off; to remove completely.

Extir'pated, p. a. Plucked up by the roots; rooted out; eradicated; totally destroyed.

Extirpation, m. [Fr.; L. Lat. extirpatio.] Act of extirpating or rooting out; eradication; excision; total destruction; complete removal.

Extir'patory, a. That roots out or destroys.

Extol', v. a. [Lat. extollo—ex, and tollo, to lift or raise up, to raise, from the root to, allied to Gr. tlab. See Toleman.] To lift out or up; to raise up; to elevate; to raise in words or eulogy; to exalt in commendation; to praise; to laud; to magnify; to comprehend highly; to glorify.

Exton, in Fennsylvania, a post-village of Chester co.,

to glorify.

Ex'tom, in Pennsylvania, a post-village of Chester co. about 28 m. W. of Philadelphia.

Extor'sive, a. Serving to extort; tending to draw from by compulsion. Extor'sively, adv. In an extorsive manner; by vio-

Extort', v. a. [Lat. extertus, from exterqu

Extert', v. a. [Lat. extertus, from exterquee—ex, and torquee, to turn, to twist. See TORTURE.] To twist or wrench out; to wrest away; to draw from by force or compulsion; to wrest or wring from; to take or gain by violence or oppression; to exact violently.

Extert'ed, p. a. Drawn or wrung from by compulsion.

Extert'tom, n. [Fr. extertion, from L. Lat. extertion]. Act of exterting; act or practice of wresting anything from a person by force, dures, menaces, authority, or by any undue exercise of power; illegal exaction or compulsion: oppression; rapacity; oppressive exaction.

Extertiomary, a. Pertaining to or implying extortion.

Exter'tioner, n. One who practises extertion.

Extor tionist, s. An extortioner.

Extor tionist, s. An extortioner.

Exter [Lat, contracted from exter (parte being understood), from exter, outward, on the outside.] A Latin preposition noting something beyond or more than what is usual or agreed upon, and often used in composition; as, extra-judicial.

z. Extraordinary; excessive; additional; as, extra work extra pay, &c.

-m. Something extraordinary; additional; not included in the ordinary course or charges. (Colloq.)

Extract', v. a. [Lat. extractus, from extraho—ex, and traho, to draw. See Tract.] To draw out or forth; to draw from by any means or operation; to draw or bring out; to find out; to take out or from; to take out or allest an analysis to draw write on conv.

select, as a part; to draw, write, or copy out.

x'tract, n. That which is extracted or drawn from something; a passage taken from a book; a quotation; an abstract

(Med.) The name applied to preparations obtained in a variety of ways from vegetable sources. Sometimes they consist of the simple evaporated juices of the fresh they consist of the simple evaporated juices of the fresh plant, and at others of certain principles extracted from the fresh or dried plant by means of a menstruum capable of dissolving them. They are termed watery, alcoholic, acetous, or ethereal, according to the menstruum employed. The object is to preserve the principles from putrefaction, which is likely to occur while they remain associated with or dissolved in other portions of the plant. They are also thus more readily used in making pills, &c. Compound extracts are those which are prepared from several plants, and simple extracts from one only. from one only.

Extract'ed, p. a. Drawn or taken out.

Extract'ible, a. That may be extracted.

Extraction, n. [Fr., from Lat. extractio.] Act of extracting or drawing out; derivation of persons from a stock or family; descent; lineage; genealogy; origin;

(Chem.) The operation of drawing essences, tinctures

(Chem.) The operation of drawing essences, tinctures, &c., from a substance.
(Math.) The operation that has for its object the discovery of the number, or root, which, when multiplied by itself a stated number of times, yields a given result.

Extractive. An extract.

—n. An extract.

Extract'or, n. He or that which extracts or draws out.

Extract'ition, n. [Fr.; Lat. ex, and traditio, from trodo, traditus, to give or deliver up. See Tradition.

A giving up or surrender of; the delivery under a treaty, of a criminal, by one government to another, to which he naturally belongs, with a view to trial and punishment. —The surrender of persons by one federal state to another, on its demand, pursuant to their fed-

eral constitution and laws. Treaties exist between the U. States, and England, France, Prussia, Austria, &c., for the mutual surrender of persons charged with murder, forgery, arson, or embessiement. Extra-dios, n. (Arch.) See Arcs.

Extra-dios, n. (Arch.) See Arcs.

Extra-dios, n. (Arch.) Seame as Parapheral, q. v.

Extra-folia/eccours, a. [Lat. extra, without, and folium, a leaf.] (Bot.) Away from the leaves, or inserted in a different place from them.

Extra-graedicfield, a. [Lat. extra, and gensus, a kind.] (2001.) Belonging to another kind.

Extra-judicfield, a. [Lat. extra, appond, and judiction, a judicial investigation; Fr. extrajudiciaire.] (Lew.) Not belonging to the judge or to his jurisdiction, not-withstanding which he takes cognizance of it.

Extra-judicfieldly, adv. In an extra-judicial manner.

Extra-mun'dame, a. [Lat. extra, and murdis, from murdus, the world. Bee Mundame.] Beyond the limit of the material world.

Extra-mun'ral, a. [Lat. extra, and murdis, from murus, a wall.] Without or beyond the walls, as of a fortified city.

Extra/neous, a. [Lat. extraneus, from extra, without beyond.] Foreign; not belonging to a thing; existing without; not intrinsic; irrelevant.

Extra meously, adv. In an extraneous manner.

Extraor dinarics, s. pl. Things which exceed the usual order, kind, or method.

Extraor dinarily, adv. In an extraordinary manner; uncommonly; remarkably; unusually; particularly; aminantly.

ner; uncommonly; remarkably; unusually; particu-larly; eminently.

Extraor dinary, a. [Fr. extraordinaire; Lat. extra-ordinarius—extra, and ordinarius. See ORDEAN;
Beyond that which is ordinary or usual; beyond or out of the common order or method; not in the usual, cus-

seyond that which is ordinary or subal; beyond or our of the common order or method; not in the usual, customary, or regular course; unusual; unwonted; exceeding the common degree or measure; remarkable; uncommon; eminent; rare; wonderful; special; particular.

Extrav'agamee, or Extravasanor, s. [Fr., from Lat. cztra, and vagans, from vago, to wander. See Vasanon.] A wandering beyond bounds or limits; a going beyond the limits of strict truth or probability; excess of affection, passion, or appetite; any excess or wandering from prescribed limits or bounds of moderation; wildness; irregularity; excess; prodigality; profusion; wastefulness; dissipation; lavish expenditure.

Extrav'agamt, a. [Fr., from Lat. cztra, outside, and vagus, wandering] Exceeding due bounds; unreasonable; immoderate; unrestrained; uncontrolled; wild; excessive.—Profuse in expense; prodigal; wasteful.

Extrav'agamt, s. One confined to no general rule.

Extrav'agamt, de. In an immoderate, wild, or excessive manner.

excessive mann

Extravagantness, n. Excess; extravagance; im-

Extravagan'sa, n. [It.] (Mus.) A kind of wild, in-

coherent music.

(Lit.) A play composed regardless of rules, and generally of the burlesque kind.

Extravasate, v. a. [Lat. extra, outside, and var, a vessel.] To cause the blood to flow out of its proper recoptacles.

ceptacles. Extra wasation, (eks-trde-d-eal'sham,) m. [Fr., from Lat. extra, and vas, a vessel.] (Surg.) Applied to fluids which are out of their proper vessels or receptacles. Thus, an E. of blood takes place when an artery or vein is injured, and the blood ecapes into the cellular membrane; and an E. of urine, when, in consequence of a wound or ulceration, that fluid makes its way into the cellular substance, or among the abdominal viscers. E is distinguished from exudation, in that, in the latter case, the walls of the vessels remain entire and the case, the walls of the vessels remain entire and the fluids escape by secretion. It is nearly synonymous with effusion, but is not so comprehensive. The discoloraeffusion, but is not so comprehensive. The discoloration that follows contusions is occasioned by the E of blood into the cellular tissue under the skin, from the rupture of small blood-vessels. When the ruptured vessel is large, or situated in a delicate part of the body, as in the brain, E is usually fatal.

Extra-vas cullar, c. The blood is said so to be, when, from any came, it is outside the proper vessels.

from any cause, it is outside the proper vessels.

Extreme', a. [Fr. extreme, from Lat. extremus.] Outermost; at the utmost point or border; furthest.—

Last; conclusive; final.—Extended, or contracted to the last extent.

Extreme', n. The part which terminates a body; the

outer verge or point of anything.

(Lopic.) This word is synonymous with term, when used in reference to a proposition. The subject and predicate are the two extremes of a proposition, the copula being, as it were, placed between them. In speaking of a syllogism, the extremes are understood to

mean the extremes or terms of the conclusion.

(Mus.) A word employed in describing those intervals in which the distonic distances are increased or diminished by a chromatic semitons.

ished by a chromatic semitone.

Extreme'less, a. Infinite.

Extreme'ly, ade. To the utmost degree, or point.

Extreme ly, ade. To the utmost degree, or point.

Extreme ly, ade. To the utmost degree, or point.

Extreme Unction, a. [Lat. extremus, last, smetia, an anointing.] One of the seven sacraments of the Roman Catholic Church, founded on the passage in the epistle of St. James: "Is any sick among you? Let him call for the elders of the church, and let them pray over him, anointing him with oil in the name of the Lord." (v. 14.) The rite is called "extreme" unction because administered only to persons at the point of death. It is supposed to purify the soul of the dying person from any sin he may have committed, which has not been previously explated by participation in the other means of grace, and to give him strength and grace for the last struggle. It is administered by the

priest, who, dipping his thumb in the holy oil, anoints the sick person in the form of the cross, upon the eyes, ears, nose, mouth, hands, and feet, each time saying,—
"Through this holy unction, and his most tender mercy, may the Lord pardon thee whatever sins thou hast committed, by thy sight, (hearing, &c.) Amen." The holy oil is blessed by the bishop with much ceremony every year on Manndy-Thursday. The Council of Trent passed several canons on this subject, declaring it to be truly and properly a sacrament instituted by Jesus Christ.

https://www.fist.n. One who maintains extreme doctrines or oninions.

or opinions.

Extrem'ity, n. [Fr. extrémilé, from Lat. extremilas.]

The utmost point or points.—The highest or greatest degree; as, "Uncharitable to the extremily." (Locke.)—The utmost distrees, straits, rigor, difficulty, or violence; the most aggravated state; as, "The last extremilies of war."—Drydes.—J. (Pinist and Stulp.) The head, the hands, and the feet.

(263.) The arms and legs, and analogous members in leave a nimele.

Ex'tricable, a. [Lat. extricabilis.] That may be freed

are tricated.

Ex'tricated.

Ex'tricated, v.a. [Lat. extricare, from ex, and tricare, hindernoes.] To free from difficulties, impediments, or embarrassments; to disentangle; to relieve; to set free; to send out.

Extrica'tion, n. Disentanglement; freeing from pe plexities. — Act of sending out, or evolving.

plexities.—Act of sending out, or evolving.

"Male rether by transmutation than extication."—Boyle.

Extrim'sic, or Extrim'sical, a. [Fr. extrinsique; Lat extrinsecus.] External; outward; extraneous; foreign; not belonging to a body.

Extrim'sicality, a. Externality.

Extrim'sicality, a.dv. In a manner not essential to the subject, or foreign thereto.

Extrevitive, a. [Lat. extra, outside, and ire, to go.] Seeking things entirely objective.

Extrevitium, a. (Sarg.) Soe Extraprim.

Extrevities, a. (Sarg.) Soe Extraprim.

Extrevities, a. (Bot.) Denoting the direction of bodies, from the axis to which they appertial; thus anthers, whose line of dehiscence is towards the petals, are said to be extravez.

Extreverision, a. [Lat. extra, outside, and rersio, a turning.] (Surg.) One of those malformations of the body in which a part is, as it were, turned wrong side outward.

To drive, force, urge, or press out, or away.

"The sea had been assembled by the mud." — Woodseard.

Extru'sion, n. Act of throwing, or driving out; ex-

Extn'herance, or Extu'herancy, n. [Lat. cz. and taber, a rising, or swelling.] A protuberance of any

and more, a rising, or any part of a body.

Extwberant, a. Swollen, jutting, or standing out.

Extwberance, or Exmberancy, n. [Fr., from L. Lat. eruberancia, from ex, and wher, an adder.] Abundance; excess; overflowing quantity; luxuriance; richamos excess; overflowing quantity; luxuriance; richamos excess; overflowing quantity;

"In his similes, exuberance is avoided."— Garth.

Exwberant, a. Over-abundant; superfluous: luxuriant; plenteous: rich; sa, "exuberant spring."—Thomson.

Exwberantly, adv. Abundantly; plenteously; copiously.—To a superfluous degree.

Exwdartiem, n. [L. Lat. excudatio, from ex, and sudar, to send.] The act of sweating; a discharge of humors or moisture by the pores.—The substance discharged by sweating.

Exwde, v. a. [Fr. exsuder; from Lat. exudo—ex, from, and sud, to sweat.] To discharge by the pore; to throw out; an a tree exudes gum.

Exwde, v. n. To flow from the pores, or as the sap flows from certain trees.

Exwlegerate, r. a. [Fr. exulcerer, from Lat. exulero, exuleratus—ex, from, and sucero, to ulcerate.] To ulcerate.

Exulcerate, r. a. [Fr. exulcerer, from Lat. exulcero, exulceratus — ex, from, and ulcero, to ulceratus.] To ulcerate.
—To irritate: to fret; to exasperate.
Exulcerations, \*\*a. [Fr., from Lat. exulceratio.] The act or process of becoming ulcerous, or of causing ulcers on body.
Exulter, r. s. [Lat. exultare, from ex, and salio, to leap.]
To leap, jump, frisk, or gambol for joy; to rejoice in success; to be over-glad; to triumph.
Exultant, a. Transported; triumphant; exceedingly rejoiced.

rejoiced.

Exulta'tiem, m. [Fr., from Lat. exultatio.] Triumph; transport; rapture; delight; joy at success or victory.

Exult'imgly, adv. In a joyous or triumphant manner.

Exu'ma.(Gurat and Little, Yuvo of the Behama Islands, the larger of which possesses one of the best harbors in those islands; Lat. 23° 30° N., Lon. 75° 50° W.

Exun'galate, v. a. [Lat., from ex, and ungala, the claw, or boof.] To pare, or remove the nails of a dog.

Exult'amee, m. Transport; exceeding joy; triumph; exultation.

exulation.

Exult'amey, n. Same as exultance. (a.)

Exult'ed, n. [Lat., from exwrere, to burn up.] The act or operation of burning up.

Exult'ed, n. (Med.) A small ulcer produced by art, either by the aid of caustics or of cutting instruments, the discharge of which is kept up with a view to fulfil certain therapeutic indications.

Exulting the same of the same indication.

Exulting the same indication of the integration of any animal, reptile, or shell-fish, which is

"shed." The films of succes thrown off by most mol-luce and soophytes must also be regarded as E. Insects shed the whole integument several times in succession. Shell-fish usually cast away the external shell yearly. Pishes seem to cast off exuvial layers of mucus only; but most reptiles periodically moult the epidermia either entire or in large coherent masses. The rattlesnake is described as actually inverting and drawing off its own skin. The moulted feathers of birds, the hairs of skin. The moulted feathers of birds, the hairs of various species of mammalia, and the small scales of scarfskin which are incessantly cast off by man, may be regarded as exuvial deposits.

Exuvial, a. Containing cast-off skins or coverings of animals.

EYE

animais.

Exuvia'tion, n. The process by which certain of the
animal creation cast off their skins, or shells, and form a

Ex viscer'ibus. [Lat.] From the vital part; the very

Ex viscer'ibus. [Lat.] From the vital part; the very essence of the thing.

Ex vo'to. [Lat.] After one's wishes; according to a vow.

Ey. Ey'et, Ey'ot, n. [Probably from A.S. ig, an island.] A small island. (o.) See A17.

Eyafialla-Yokul, (i-a:/e-a!'la-ye'koo!,) a volcano of Iceland, about 15 m. S.E. of Mount Hecla.

Eyas. Eyas.-muskect, ('az,) n. [Fr. niais, probably from Lat. niaicus, a nestling, from niaiss, a nest.] A young hawk just from the nest, and not able to prey for itself.

Eye, (i.) n. [Sax. eage, ege; O. Sax. oga; Ger. auge; O. Ger. and Icel. auga; Du. oog; Dan. äie, the eye. From O. Mid. High-Ger. ougen, Goth. augian, to show. Sansk. akshi, the eye, gasaza, a hole, window, zana, twinkling, from iz, to see. Arab. agn; Heb. Syr., and Æthiop. ain, the eye; Fr. avi; Lat. ozulus.] The organ of vision; the medium of the sense of sight. See, below, § Physiol.—Sight: ocular knowledge.

the medium of the source of the second of the second secon

Look: countenance.

"I'll say you grey is not the morning's eye,
"Tis but the pale reflex of Cynthia's brow." — Shake

"To justify this worthy nobleman, Her shall you hear disproved to your eyes." — Shale.

Aspect; regard.

"His eyes shall not be evil towards his brother." — Dest.
Notice; observation; vigilance; watch.
"But stay, and ever keep me in your eye." — Dryden. Opinion formed by observation.

"Though he in all the people's eyes seemed great.

Tet greater he appear'd in his retreat."—Denk

Anything formed like an eye; as, "the eye of the pea-cock's feather." — Newton.

Any small perforation; as, the eye of a needle.

A small catch into which a hook goes. — Bud of a plant.

— A small shade of color.

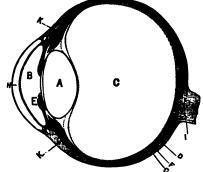
" Red with an eye of hine makes a nurnle." - Royle Power of perception.

Power of perception.

"A gift doth blind the eyes of the wise." — Dout. xvi. 19.

(Physiol.) The organ of vision or sight; in man, quadrupeda, and other vertebrates, it is properly the globe or ball morable in the orbit. — The human eye is an organo-physical apparatus, which has, by means of a system of collective media, the property of casting real images of objects on the retina; the impression of which is conducted by the fibres of the optic nerve to the brain, where consciousness is enforced. As a mere piece of mechanism, the world nowhere furnishes such a beautiful and complex piece of machinery in so small a space. As an optical instrument, it is perfect beyond imitation. It is a spherical body, consisting of three tunics, (the sclerotica, with its transparent anterior part the cornea, the choroid with the iris and ciliary processes, and the retina, — and three refracting media or humors — the aqueous, the lens, and the vitreous.)

(Fig. 980.) The organ of vision consists essentially in the



Fia. 980.

A, Lens; B, Aqueous humor; C, Vitreous humor; D, Retina; E, Iris; F, Choroid; G, Sciercica; H, Cornea; I, Optic nerve; K, Cillary process and muscle

membranous expansion of the peripheral extremity of the optic nerve, called the reting. It is a delicate mem-brane, concave, with the concavity directed forward; semi-transparent when fresh, but soon becoming clouded and opaque. It consists partly of nervous elements, partly of modified connective tissue, which envelops and holds together the former. The choroid, which is the next tunic of the eye, consists of a thin and highly vascular membrane, of which the internal surface is covered by a layer of black pigment cells. The principal use of the choroid is to absorb, by means of its pigment, those rays of light which pass through the transparent retina, and thus prevent their being again thrown upon the retina and interfere with the distinctness of the images there formed. Certain transparent refracting media are placed in front of the retina for the purpose of collecting together into one point the different diverging rays emitted by each point of the external body, and of giving them such directions that they shall fall on corresponding points of the retina, and thus produce an exact image of the object from which they proceed. Without this optical apparatus before the retina nothing distinctly could be perceived. These refracting media are the cornes, the aqueous humor, the crystalline lens, and the vitreous humor. The corwea is a dense, perfectly transparent substance, convex anteriorly, concave posteriorly, and composed of fibrous tissues arranged in numerous distinct lamine. Behind the cornes is a space containing a thin watery fluid, the aqueous humor. This space is divided into two chambers, the anterior and the posterior, by a membranous partition, the iris, whose muscular fibres have a direction for the most part radiating from the circumference towards the central aperture, the pupil; but as they approach the pupillary margin they assume a circular direction, and at the very edge form a complete ring. By the contraction of the radiating fibres, the size of the pupil is enlarged, and by the contraction of the circular ones it is diminished. The posterior surface of the iris is costed with a layer of dark pigment, so that no rays of light can pass to the retina, except such as are admitted through the aperture of the pupil. The object effected by the movement of the scientical, which also serves to give attachment to the various mucles by which the movements of the eyeball are effected. The essential constituents of the optical apparatus of the eye are: a nervous structure to receive and transmit to the brain the impressions of light; certain refractory media for the purpose of so disposing of the rays of light passing through them, as to throw a correct image of an external body on the retina; and a contractile diaphragm with a central aperture for regulating the quantity of light admitted into the eye. To consider the manner in which a sharply-defined image of an external body is received upon the retina, we may regard the eye as a camera-obscura, upon the screen (retina) of which is formed a diminished and inverted image of the object. The impression of the object upon the retina is conveyed through the optic nerve to the brain, and projects back again in an inverted direction outwards to the object. The refractive media—the cornea, aqueous humor, crystalline lens, and vitreous humor, which form the dioptric system of the eye—act as a biconvex lens, and cause the refraction in the normal eye of rays which emanate from a distant object so that they are brought to an exact focus upon the retina. (See Fig. 421.) The newer of the aye to see clearly at different are brought to an exact focus upon the retina. (See Fig. 981.) The power of the eye to see clearly at different

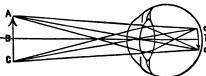


Fig. 981.

distances presupposes the power of voluntarily shortening and lengthening the focal distance of the dioptrie apparatus, so as to correspond to the differences in the posterior point of convergences, which are caused by the variation of the distance of the object. This variation in the amount of adjustment of the dioptric apparatus is caused solely by changes of curvature of the lens through the action of the cliiary muscle, and great elasticity of the lens. This power of the eye to so adjust itself for different distances is called the power of accommodation and in the normal eye the whole apparatus of accommodation is so beautifully arranged and banced that its functions are performed with case and accuracy unconsciously. The eye, in animals, though presenting chiefly in mammals, the same general composite

tion as in man, differs from it in several points, more or less inportant, so as to meet the peculiar wants of the animal. So the eyes of the cat, the owl, and of nocturnal animals generally, are somewhat different from those of such animals as seek their prey by daylight; and even these have special peculiarities, as in the eagle, who has a membrane to protect the organ from the sun when he looks upwards. The eye of the fish is again differently constituted, to adapt it to the medium in which it lives, and the density of the water in which it is accustomed to reside. Such fish as keep on the surface of the water have a peculiar adaptation of the organ, or a double eye, one-half being adapted to the medium of the air, and the lower half for the denser one of water. The eye, according to the requirements of the animal, is either placed in front, as in man, or more or less to the side and backwards, as the habits or nature of the animal demand. In the more timid and fugitive, where instant escape from danger demands instant and far-off knowledge, the eye is large, tion as in man, differs from it in several points, more or

eye is large, prominent, and so placed that the animal can, without the movement of the head, see behind as well as in front and side ways. The best ex-amples of this peculiar and admira-ble construcmovement of ble construction is found in the hare, and the eye of the giraffe (Fig. 982), which, it will



Fig. 982. - GIRAFFE'S HEAD.

which, it will
be seen from the annexed cut, is so placed in the head
and orbit, that, while running, the animal is still able to
observe its enemy, without turning the head, to note how
near or remote is its pursuer.

Bye, v. a. To fix the eye on; to look on; to view; to
observe; particularly, to observe or watch narrowly.

Eye, a town and parish of Sunfolk, England, 20 m. from
Ipswich; pop. 3,775.

Bye'ball, n. The ball, globe, or apple of the eye.

Eye'bolt n. (Shipbuilding.) A pointed iron bar with
a hole at the thick end. It is intended to be driven into
one of the timbers, and then to have a rope passed
through the hole.

one of the timbers, and then to have a rope passed through the hole.

Eye'bright, n. (Bot.) A beautiful little species of plant, genus Euphrana, formerly much used as a remedy for diseases of the eye.

Eye'brow, n. The brow or hairy arch above the eye.

Eye'd, a. Having eyes.

Eye'glass, n. A glass to assist the sight; spectacles.

Eye'lash, a. The line of hair that edges the eyelid.

Eye'les, a. Wanting eyes; destitute of sight.

Eye'let, or Eyelet, n. [Fr. arilet.] A small eye,

hole, or perforation, to receive a lace, small rope, or

Eye'lid, s. The cover of the eye; that portion of mov-able skin with which an animal covers or uncovers the eyebali at pleasure.

eyeball at pleasure.

Eye'-piece, n. (Optics.) An eye-piece, or power, as it is sometimes called, is the lens or combination of lenses used in microscopes or telescopes to examine the aërial image formed at the focus of the object-glass. The ordinary eye-piece is a combination, and may be either positive or negative. The former consists of two plano-convex lenses, with their convex sides towards each other; and is used for micrometers. The negative, or Huygenian, consists of the same lenses with the convex sides turned away from the eye. Besides these there are in use, for observations of the sun, a diagonal eye-piece, in which a very small percentage of the sun's light and heat is reflected from the first surface of a prism, the rest being transmitted; and Dawes' solar eye-piece, in heat is reflected from the first surface of a prism, the rest being transmitted; and Dausez' solar eye-piece, in which the light is reduced by observing only an extremely minute portion of the solar surface. Steinheid and Kellner have also contrived eye-pieces; they, however, are not in such general use. The eye-piece of opera-glasses consists of a combination of bi-concave lenses—an arrangement which is almost out of date as applied to telescopes, although occasionally it may be used with advantage.—All these eye-pieces, except the last-mentioned, invert. The terrestrial or erecting eye-piece is a combination of four lenses, used for terrestrial telescopes.

need with advantage.—All these sys-pieces, except the last-mentioned, invert. The terrestrial or erecting eyepiece is a combination of four lenses, used for terrestrial telescopes.

Eye'-salve, (-sdo,) m. Ointment for the eye.

Eye'-service, m. Bervice performed only under the inspection or the eye of an employer.

Eyer's Greve, in Fransylvania, a P.O. of Columbia co. Eye'sight, n. The sight of the eye; view; observation; the sense of seeing.

Eye'-serve, m. Something offensive to the eye or sight.

Eye'-stooth, n. A tooth under the eye; a pointed tooth in the upper jaw next to the grinders, called also a coming tooth; a fang.

Eye'-water, m. A medicated water for the eyes.

Eye'-waters, m. A medicated water for the eyes.

Eye'-waters, m. A town of Prussia, on the Pasmar, 20 m. from Königsberg. Here, Fob. 8, 1807, Napoleon I. defeated the Bussian and Prussian armies. The action was commenced by Augereau, whose division was defeated with immense slaughter; but Napoleon coming to the rescue, the fortunes of the day were retrieved, and the allies compelled to retire to Königsberg. The loss of life was unusually great, though, from the discrepancy in the reports, it is difficult to arrive at a positive computation.

Eyre, m. [O. Fr., from Lat. ire, to go.] (O. Eng. Law.) A journey or circuit; a court of itinerani justices.

Eyry, or Erris, ('fre,) m. [Teut. ey, an egg. See Arriz, An eggery; a nest for eggs; the place where birds of prey construct their mests and hatch; an aerie.

Essekiel, (eerke-l.) [Heb., God strengthens.] (Serigt.) One of the canonical books of the Old Testament. It is named after its author, E., who was carried captive to Babylon by Nebuchadnezzar, B. C. 586, and placed by the river Chebar. He prophesied for 20 years, B. C. 566 to 575, till the 14th year after the final captivity of Jeru-

salem. The Book of E. abounds with sublime visions of the divine glory, and awful denunciations against Israel for their rebellious spirit against God, and their abominable idolatry. It naturally divides itself into two equal parts: the first containing oracles before the fall of Jerusalem; the second, oracles after that event,—the catastrophe in question forming the ceutre and culminating point of the book. In the first part we have an account of Eschiel's call to the prophetic office; a circumstantial announcement of the destruction coming upon Judah and Jerusalem, on account of the wickedness of the people; visions and prophetic discourses relating to the rejection of the covenant people, with a description of the guilt of the people, their rulers, priesta, and false propheta, and several discourses reproving the idolatry of the people, and proclaiming the destruction of Jerusalem and its people. In the second part we have prophecies against the Ammonites, Moabites, Edomites, and Philistines; against Tyre, Sidon, and Egypt; respecting the restoration of the theocracy, the future salvation of Israel, in its conditions and basis, and in its development, from the reanimation of the people to their victory over all the enemies of the divine kingdorn; and, finally, the renewal and glorification of the theocracy in the Messianic period. There are so few grounds for doubting the genuinences of this book, that its authenticity has been very little called in question.

Es ras, son of Seraiah, a priest of the Jews, and a descendant of Aaron. He was carried captive to Babylon by Nebuchadnessar. Artaxerxes Longimanus, however, sent him to his own country with a colony of the Jews, and all the sacred vessels and ornaments of the temple, which he had in charge to rebuild. On his arrival at Jerusalem, 468 B. C., he set about the reformation of abuses, particularly one of strange marriages. He restored the whole canon of the Old Testament. There is in the Bible a book under his name, and in the Apocryphal with an account of



## E.—SECTION II.

EARL EAST

Each where, adv. Everywhere (z.).

Eads (cods), James Buchanan, LL.D., civil engineer,
was born at Lawrenceburg, Ind., May 23, 1820; was a
natural mechanic from boyhood. While a mere child natural mechanic from boyhood. While a mere child he constructed a toy steamboat, and shortly thereafter devised and patented a diving apparatus which proved very successful and profitable. He was an important factor in constructing the ironclad river boats used on the Mississippi river (1861-62); was designer and engineer in charge of the construction of the great St. Louis bridge across the Mississippi (finished 1874); constructed the jetties at the mouth of that river (1875-79); and afterward made plans for the building of a ship railway across the isthmus of Tehuantenec. of a ship railway across the isthmus of Tehuantepec. He was the first American to whom the Albert Medal was awarded (1884). Died at Nassau, Bahamas, March

8, 1887.

En'gle, James P., politician, born in Maury co., Tenn.,
Aug. 10, 1837, but lived in Arkanssa after 1839; entered
the Confederate army (1861) as a private, and rose to
the rank of lieutenant-colonel; was ordained a Baptist
clergyman (1870), and at four different periods was
member of the Arkanssa Legislature, also chosen as
Speaker of the House, and was twice (1888-1890) elected
Coverno of Arkanssa

Speaker of the Holms, and was twice (1600-1630) elected Governor of Arkanssa.

Engle, in Colorado, a N. W. cen. co.; area, 1,600 sq. m. Drained by Grand river and smaller streams. Surface, mountainous. Miserale, gold, silver, lead, fron and copper. Capital, Redcliff. Pop. (1890) 3,725.

Engle Biver, in Wisconsin, a poet-village, cap. of Vilas co., on Chic. & N. West. R. R., 20 m. N. E. of Bhinelander. Pop. (1895) 1,454.

En'kims, Thomas, genré and portrait painter, born in Philadelphis, 1844; student in the Pennsylvania Academy, where he was afterward professor of painting; also studied with Gérôme and Bonnat, Paris. Much of his attention has been given to photography and the study of anastomy.

also studied with Gérôme and Bonnat, Paris. Much of his attention has been given to photography and the study of anatomy.

Enmess, Enma, opera-singer, born in China in 1868. Her parents were natives of Boston, where she afterward lived. Went to Paris (1883) for the purpose of study, and made her début there at the Opera (1889); made a brilliant success in New York as one of Abbey's company, especially as Marguerite, in Fusat; was married (1891) to Julian Story, an artist and son of the sculptor, W. W. Story.

Ear of Diemys'sus. A large funnel, or shell, with fiexible tube, for concentrating sound; a kind of cartrumpet; so called from a device of the Syracusan tyrant, Dionysius, to enable him to hear in his palace the prisoners in his dungeons.

Ear'-ceckle. (Agric.) The name of a curious disease in wheat, in which the grain becomes blackened and contracted and mealy within from the presence of myriads of worms belonging to the genus Vibric. The little animals are extremely tenacious of life; and though apparently reduced to dust, when steeped in warm water for a short time, and afterward dried for many months, they recover their former activity. The disease not only impairs the value of the wheat, but the little worms are very annoying to the miller from filling up the pores of his bolting-clotts. The affection, also called Pherples, is local, and quite unknown in many parts of the U. S.

Ear'-Gerep, Landy's, n. (Bot.) A common name of the fuchsia.

Ear'-Gereps, m. A pronged instrument for removing objects from the car.

Enr'-forceps, s. A pronged instrument for removing objects from the ear.

ing objects from the ear.

EAPPle, PLINT, physician and alienist, was born at Leicester, Mass., Dec. 31, 1809; graduated from the medical department of the University of Pennsylvania (1837); was resident physician at the Frankford Insanch Asylum (Friends), Philadelphia (1840-42), and at Bioomingdale, New York, (1844-49); superintendent of the Massachusetts State Hospital for the Insanch (1864-85). At intervals between 1837 and 1871, he travelled extensively in Europe, studying the methods of treating the insanc, and his published works on this subject are many and valuable. Died at Northampton, Mass., May 18, 1892.

Mass. May 18, 1892.

Marl'imgtem, in Kentucky, a post-town of Hopkins co., on L. & N. R. R., 4 miles S. of Madisonville; has railroad repair shops and manuf. of coke and wine. There are coal mines near by. Pop. (1897) about 2,000.

Ear'sy, Jural Anderson, lawyer and soldier, born in Franklin co. Va., Nov. 3, 1816; graduated from West Point in 1837, and studied law, but served in the Mexican War as a major; joined the Confederate army in

1861; soon rose to the rank of major-general and took part in the battle of Gettysburg (1863), an invasion of Maryland (June, 1864), the engagements at Winchester and Fisher's Hill, Va., (Sept. 18-20, 1864) and Cedar Creek (Oct. 19, 1864), being defeated by Sheridan in the last three fights. After the war, resumed the practice of law at Richmond and Lynchburg; died at the latter place on March 2, 1864.

place on March 2, 1884.

Ear'-muff, s. A protective cap or covering for the ear.

Earn'est, v. a. To employ earnestly; to serve as a

pledge of.

Ear'-reach, s. Distance at which sounds may be

heard.

Earth'-auger, s. (Meck.) An earth-borer; a form of auger revolving in a cylindrical case, with a valve that opens to admit the cut earth, and closes to retain that opens to admit the cut earth, and closes to retain

Earth-battery, s. (Elec.) A voltaic couple of zinc and copper buried a certain distance apart, on which the moisture of the earth acts as the exciting fluid, pro-

ducing a feeble current.

Earth'-crab, s. (Entom.) The mole cricket.

Earth'-hog, or Earth-pig. s. (Zoil.) The

Earth'-hog, or Earth-pig. n. (2021.) The aardvark (q. v.).

Earth-oil, n. Rock-oil, or petroleum.

Earth'-smocke, n. (801.) The fumitory, Fumaria
afficinalia. (North. Eng.).

Earth'-treatment, n. (Surg.) The treatment of
wounds with finely pulverized earth, or clay, which acts
as a deodorizer, checks putrefaction and promotes healing.

ing.

Earth-wire, s. (Elec.) A wire for making electrical connection with the earth; especially for conveying leakage from a telegraph line.

Earth-worms. (Gool.) It is our purpose to speak here of the geological importance of these humble animals. This was long ago appreciated by Jenner and Gilbert White, but was very fully realized after the careful observations of Darwin. White, in 1777, wrote: "Worms seem to be the great promoters of vegetation, which would proceed but lamely without them, by



Fig. 2858.—COMMON BARTHWORK. a .- Young worm emerging from the coccor

boring, perforating, and loosening the soil, and render boring, perforating, and loosening the soil, and rendering it pervious to rains and the fibres of plants, by drawing straws and sticks of all kinds into it; and, most of all, by throwing up such infinite numbers of lumps of earth. . . Worms probably provide new soils for hills and slopes where the rain washes the earth away. The earth without worms would soon become cold, hard-bound, and void of fermentation; and consequently sterile." Darwin says, in the same vein: "It may be doubted whether there are many other animals which have played so important a part in the history of the world as have these lowly-organized creatures." Darworld as have these lowly-organized creatures." Darwin's observations, some of which lasted for thirty years, and which were made with the most patient years, and when were more win the most patient preseverance, fully substantiate the quotations above given. Worms burrow into the soil and open innumerable channels for the raindrops and the roots of plants; they bruise the particles of soil in their gizzards, extract the nutriment, and cast out the mineral elements; their castings continually cover the surface with soil-substance brought up from below; they act the part of plows, turning the carth up and over and over again; the soil of the far past was largely due to them, and their labors still continue unceasingly. Vegetable soil, no doubt, accumulates in some localities without much

aid from worms. Richthoven has shown that the conaid from worms. Richthoven has shown that the constant rain of dust has its value in making new soil, but with all this, in many localities, at least, earthworms play a highly necessary part as soil makers. In considering this, we must take into account the vast numbers of these animals. Darwin estimated that an acre of garden soil contains, on an average, 53,000 of them, and that ten tons of soil per acre pass annually through their bodies. They are steadily eugaged in bringing up mould from the under soil to the surface, and add to the surface soil at the rate of an inch in thickness in five years. This labor is of the utmost value to agriculture, renewing the valueble mineral thickness in five years: This labor is or the utilities value to agriculture, renewing the valuable mineral constituents of the surface soil as they are exhausted by plant growth and carried down by the rains. Darwin found also that the worms were surface scavengers, that boles at night to explore the surface, and found also that the worms were surface scavengers, leaving their holes at night to explore the surface, and drawing down with them innumerable bits of scattered material to enrich the soil. His observations showed also that the archeologist owes a debt of thankfulness to the worm, which has buried and preserved many an interesting piece of antique material, such as Roman pavements and other relics of the past. See Darwin's work, The Formation of Vegetable Mould through the ork, The Form letion of Worms.

Ear'wise, adv. By way of the ear.—After the manner of an ear of corn.

Ear'-worm, m. (Entom.) The ball worm, or corn

worm

East Bangor, in Pennsylvania, a post-borough of Northampton co., on Bangor and Portland R. R., 6 m. S.W. of Portland; has extensive slate mines and manuf. of marble and roofing slate. Pop. (1897) about 600. East Brady, in Pennsylvania, a post-borough of Clarion co., on Allegheny river and Alleg. Val. R. R.; has coal mines, a planing-mill, flour-mill, and manufactory of lamp-black. Pop. (1897) about 1.380.

East Carroll, in Louisiana, a N. E. parish; area, 400 aq. m. Bounded on the east by the Mississippi river and drained by the Tensas and Bayou Macon. Surface extensively covered with forests of ash, cypress, gum, &c. Soil, fertile; cotton is the staple product. Cop. Lake Providence. Pop. (1890) 12,362.

East Chicago, in Indiana, a post-town of Lake co., on Penna R. R., 23 m. E. of Chicago. Pp. (1897) ab 1.850. Cambria co., near former borough of Commangh. It has furnaces for the manufacture of spiegeleisen. Pop. (1897) about 2,000.

has furnaces for the manufacture of spiegeleisen. Pop. (1897) about 2,000.

East Dubmque', in Illinois, a city of Jo Daviess co., 16 m. N. W. of Galena, on Chic., Burl. and Quincy and Ill. Cent. B. Rs.; has a planing mill, a box factory, a grain elevator and manufactures of seed drills and culti-

Ill. Cent. B. Ra; has a planing mill, a box factory, a grain elevator and manufactures of seed drills and cultivators. Pop. (1890) 1,069.

East Grand Fork, in Missesce, a city of Polk co., 23 m. N.W. of Crookston, on Nor. Pac. and Gt. Nor. R.Ra. Pop. (1895) 1,443.

East Green's ville, in Pessagicania, a post-borough of Montgomery co., 23 m. N.W. of Norristown, on Perkiomen R.B.; has manufactures of cigars and cigar-boxes. Pop. (1897) about 600.

East Jerdam, in Michigan, a post-village of Charlevoix co., 12 miles W.N.W. of Boyne Falls; has foundry and saw mills. Pop. (1894) 896.

East Las Vegas, in New Mexico, a post-village of San Miguel co. Pop. (1897) about 750.

East Sieux Falls, in South Dakota, a post-village of Minnehaha co. Pop. (1897) about 750.

East Strouds' burg, in Pensyleonia, a post-borough of Monroe co., 1 m. from Stroudsburg and 2½ m. from Delaware Water Gap, on D., L & W. and K. Y., S. & W. R.Rs.; has glass-works, boiler-works, tannery, knitting and silk-mills. Is the seat of one of the State Normal Schools. Pop. (1897) about 2,200.

East Syr'secuse, in New York, a post-village of Onondaga co., 4 m. E. of Syracuse, on N. Y. C. & H. R. and W. Shore R.Rs. Pop. (1897) about 3,000.

East'er Dures (Esp. Ch.) Money paid to the clergy at Easter in lieu of tithes for personal service; formerly exacted, but now voluntary and called Easter offerings. A colored or decorated egg, or something in the shape of an egg, as candy, used as a gift at Easter. The custom probably autedates Christianity, and may have been connected with the New Year when that was reckoned from the vernal equinox. As all animal life originates in the egg, it was natural to associated.

and may have been connected with the New Xear when that was reckoned from the vernal equinox. As all animal life originates in the egg, it was natural to asso-ciate such an object with the beginning of a new period of time; and the egg may have been first offered as a

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present to the delities at the New Year celebration. The beauty of the egg of a bird—T. W. Higginson reckons it "the most perfect thing in the universe"—and the abundance of eggs at the season mentioned would favor their selection as articles to bestow as gifts. It is said that the Persians keep the festival of the solar new year, in March, and make mutual presents of colored eggs in the feast of the Passover, which was celebrated within a day or two, before or after, of the vernal equinox. When the Fathers of the Church substituted the Christian festival for the Passover of or the heathen festival of the goddess Ostera, or Easter, the custom of egg-giving was perpetuated in that the Persians keep the festival of the solar new year, in March, and make mutual presents of colored eggs; and that the Jews used eggs in the feast of the Passover, which was celebrated within a day or two, before or after, of the vernal equinox. When the Fathers of the Church substituted the Christian festival for the Passover or for the heathen festival of the goddees Ostera, or Easter, the custom of egg-giving was perpetuated in the new anniversary; and as the Easter celebrated the resurrection of Christ, the egg very naturally became the symbol of the resurrection of the body and the emblem of a future life. The coloring of the egg probably has no special significance, but was adopted as making the gift more pleasing to children, who were largely the recipients of such tokens on this joyous occasion.

East'er-flower, n. (Bot.) A shrub of the Euphor-biaces, or spurge family, having brilliant red bracts surrounding the small true flower; the Mexican fire-

East'er-Mewer, s. (Bot.) A shrub of the Emphorbiaces, or spurge family, having brilliant red bracts surrounding the small true flower; the Mexican fireplant.

East'er-mackerel, s. (Ichik.) The chub-mackerel (Scomber colius) found in warm seas.

East'er-mackerel, s. (Ichik.) The chub-mackerel (Scomber colius) found in warm seas.

East'er-mackerel, s. (Ichik.) The chub-mackerel (Scomber colius) found in warm seas.

East'er-mackerel, s. (Ichik.) The problem of what is to be done with the southeast of Europe, the area now or recently occupied by the Turks. Jealousy between the powers has given the empire of the Sulian a continuance which it would not otherwise have been suffered to retain. This was particularly the dread of the too great extension of Russia, which country, but for European opposition, would long since have put an end to the dominion of the Turk. The Eastern question had its origin in the 18th century, during the wars of Russia and Austria with Turkey, when the western powers sympathized with the latter country and threw what obstacles they could in the way of success by their opponents. In Napoleon's campaign against Turkey, in its Egyptian and Syrian provinces, in 1798, England proved an efficient friend of the Turk, and saved him from the fate which would have befallen him if the ambitious Corsican had had Turkey alone to deal with. Later contests arose from Russia's claim to be the protector of the Christian population in Turkish territory, such as the Roumanians, Montenegrins, Servians, Greeks and Bulgariana, and to be the chief heir of the "sick man of Europe," as the Turk was named by some witty diplomat. It was much less sympathy with Turkey than fear of Russia gaining preponderant strength that led to the opposition of Western Europe to these claims, bringing on in 1857 the Crimean War, in which England and France succeeded for the time being in checking the course of Russian aggression. Turkey, however, in her barbarous treatment of her Christian population, gave constant new warrant for i other revolt occurred in 1897, and in this case, despite the efforts of the powers to prevent, Greece came to the aid of the Cretans, and war was declared between Greece and Turkey, the conflict ending in the quick discomfiture of Greece. The powers still desisted from taking any warlike part in this affair, and confined themselves to a pacific settlement of the dispute, leaving the E. Q. where it had been before. Of late years the area covered by this question has extended into Asia, as far as India, and covers all territories threatened by Russian avgression, marticularly those in which England

far as India, and covers all territories threatened by Russian aggression, particularly those in which England is concerned. See Greece: Turkey.

East'ern Shore, in Maryland, one of the two districts into which the State is divided by the Susquehanna river and Chesapeake Bay. It contains about ½ of the area of the State; is a level and sandy but mainly fertile region, nowhere of great elevation, though there are rounded hills in the north; in the south are swampy tracts and patches of woodland. The streams are deep and navigable.

East'lake, in Michigan, a post-village of Manistee co., has manufactures of lumber, shingles, and salt. Pop. (1897) about 1,000.

East'man, in Georgia, a post-town, cap. of Dodge co..

(1897) about 1,000.

East'mann, in Georgia, a post-town, cap. of Dodge co., on Southern R. R., 56 miles S.S.E. of Macon; has extensive shipments of lumber, naval stores, cotton, and wool. Pop. (1890) 1,082.

East'tom, Morron William, Ph.D., philologist, born in Hartford, Conn. August 1R, 1841; studied at Columbia, Yale and the University of Vienna; filled the chair of Comparative Philology in the University of Tennessee, and now (1897) holds a similar position in the University of Pennsylvania.

[SECTION II.]

Zorozser; Journal of a Diplomat in Persa. Died at Vention, Isle of Wight, July 16, 1883.

Ensy-ge/ing, a. Taking life comfortably; free from care; ease-loving.

En'ion, Daniel Cady, botanist, born at Fort Gratict, Mich., Sept. 12, 1834. Graduated at Yale, and the Lawrence Scientific School of Harvard University, and was made professor of botany at Yale in 1864. He was the author of an excellent work on the Ferse of North America, and contributed to Chapman's Flora of the Southers States and Gray's Mosseal. Died June 29, 1885.

Enton, Dorman Beiddman, LLD, lawyer, born in Vermont on June 27, 1823; graduated from the University of Vermont (1848), and later from Harvard Law School. Began the practice of law in New York (1860) with Chancellor Kent; became a member of the civil service commission in 1873, and was its chairman until 1875, when it was dissolved; author of the civil service act, approved Jan 16, 1883. In March of same year was made member of new civil service commission, which position he resigned two years later. Was editor of Kent's Commentaries, 7th edition, and has contributed largely to the literature of law and political jurisprudence.

Enu (ö). E. [Fr.] Water; a word used in composition to designate various perfumes, &c.

E'berra, Grong Moritz, Egyptologist, born in Berlin, March 1, 1837; studied law in Göttingen but afterward turned his attention to classical and oriental studies, visiting for this purpose the principal museums in Europe. He began teaching in Jens (1865), where he was made professor extraordinary (1868); made an extensive tour to the East (1869), and on his return was called to Leipzig as professor of Egyptology; returned to Egypt (1872), when he discovered the Papyrus which bears his name. Among his works are: Through Goshen to Sinai; Egypt, Descriptive, Historical and Pictureque, etc. He has also acquired distinction by his romances of ancient Egyptian life which include Uarda; Homo Sum; The Sisters, &c.

Ebberwale, in Pennsylvania, a post-village of Luzerne

The Sisters, &c.

By erwalle, in Pennsylvania, a post-village of Luzerne co., 20 m. 8. of Wilkesbarre on branch of L. Val. R. R. Extensive coal mines near by. Pop. (1880) 567.

Ebul'lioscope, n. (Ohem.) An instrument for determining the alcoholic strength of a liquid by its

determining the alcoholic strength of a liquid by its boiling-point.

Ecar'dines. s. pl. [L. e, without; cardo, hings [Zoil.] The Lypomata, an order of the Brachiopods.

Eccen'tric The'ory. (Astron.) The theory that adopts an eccentric instead of an epicycle in accounting for the motion of the sun.

Eccen'tric Throw. (Mech.) The distance between the center of an eccentric disk and the center of the shaft on which it is.

shaft on which it is.

Ecchymeot'ic, a. Pertaining to ecchymosis.

Eccle'sian, n. [Gr. ekkiesia, church.] One who
maintains the supremacy of church over state.

Ecclesiae'tical Court. A court especially devoted
to consideration of matters relating to the clergy and
religion. In England these courts are instituted by the
sovereign for maintaining the discipline of the established church.

Ecclesiae'tical His'tory. The history of the
church (Jewish and Christian) from the earliest times
to the present.

to the present.

Ecclesias'tical Law. The law administered in the ecclesiastical courts, derived from the civil and

the ecclesiastical courts, derived from the civil and canon law.

Ecclesias'tical Modes. (Mus.) See Gregorian.

Ecclesiog'raphy, m. Descriptive history of the church or of churches.

Ecclesion, Sanuzia, Bonan Catholic ecclesiastic, born in Kent co., Md., June 27, 1801; student at St. Mary's College, Baltimore, and the Sulpician Seminary at Issy, near Paris; subsequently became president of the former institution (1829). He received the pallium from Rome (1834) conferring upon him all the powers. from Fails; succeeding December President of the former institution (1829). He received the pallium from Rome (1834), conferring upon him all the powers and honors of the Metropolitan See of Baltimore. During his administration St. Charles Ecclesiastical Seminary was established; six large churches were built in Baltimore, and new churches in various parts of Maryland. Died in April, 1851. Ecchegary, José, dramatist and statesman, born in Madrid, Spain, in 1835. He has occupied several important official positions, and that of professor of Mathematics and Physics in the engineering school in Madrid. As a dramatist he has generally written tragedies. They include El Gran Galeotto; Conflicto carte dos deberes, &c. Ech'oism, n. (Philol.) The formation of words by the imitation of natural sounds. See Onomatorga.
Ech'oist, n. One who practices echoism.
Ech'oist, n. To form words by imitating natural sounds.

Ech'oscope, s. (Path.) An instrument for intensifying the sound made by percussion of the thorax in auscultation.

Ech'ert, Thomas Thompson, telegraphist, born at St. Clairsville, U, April 24, 1824; became a telegraph superintendent (1852); subsequently was placed in charge of the military telegraph connected with the army of the Potomac, a system that was ultimately extended over the whole country. Was assistant secretary of

war (1866), and successively president of the Atlantic & Pacific, American Union, and Western Union telegraph companies, being elected to the latter position in 1893.

in 1893. Eck 'hart Mines, in Maryland, a mining post-village of Allegany co., 9½ m. W. of Cumberland, at terminus of Eckhart Branch R. R. Pop. (1897) about 900. Echaire (\$\bar{a}\_c\text{car}\sigma\_c\text{m}\$, s. [Fr.] A kind of frosted cake with custard filling.

Eclaire (\$\delta \class{c}\delta \class{c}\del and teacher.

and teacher.

Rddy, Henry Turner, C.E., Ph.D., LL.D., educator, born in Stoughton, Mass., June 9, 1844; graduated from Yale with the degree of A.B. He has held professorships in Cornell and the University of Cincinnati; was evice-president of the mathematical and astronomical section of the American Association for the Advancement of Science; and, since 1891, has been president of Rose Polytechnic Institute, Terre Haute, Ind. He has published Thermodynamics; Researches in Graphic Matics, &c.

published Thermodynamics; teneurones in Grupnic Consecu, &c.

Eddy, in New Mexico, a S. E. co.; area, 6,800 eq. m. The Rio Pecos and the Rio Penasco intersect it. Surface, rolling. Stock raising is a principal industry. Cap. Eddy. Pop. (1897) about 1,600.

Edd'dy, in North Dabuta, a C. co.; area, 648 sq. m. Soil, very rich and well watered. Rivers. Dakota and Cheyenne. Cap. New Rockford. Pop. (1890) 1,377.

Ed'dystome, in Penasphenia, a post-borough of Delaware co., 2 miles N.E. of Chester. Pop., with suburba, (1897) about 5,200.

Edel weins (cd'el-wis or d'dilets), a. [Ger., noble white.] (Bot.) A perennial plant, Leontopodism adpissem, native of high mountain ranges in Europe. It grows to the height of 6 or 8 inches, and produces dense clusters of small yellowish flowers, surrounded by beautiful whorled oblong leaves, which are almost covered with a thick sman yenowan nowers, surrounced by beautirui whorsed oblong leaves, which are almost covered with a thick down of pure white. It is gathered for sale by the Swiss peasants and plucked by tourists to such an extent that fears have been entertained of its extermination in the Alpine region. It is sometimes cultivated in gardens.

in gardens.

E'demburg, in Pennsylosnia, a borough of Clarion co. 20 miles 8. of oil (tity; on P. & W. R. R.; has a number of oil wells, machine shops, and a planing mill. The post-office is Knox. Pop. (1897) about 800.

Ed'gar, Janes David, member Canadian Parliament, born in Eastern Townships, P. Q., Aug. 10, 1841; educated at Quebec; was called to the bar in 1864, and returned to Parliament at four different periods (1872, 48, 87, 91). He is the author of the Insolvent Act and The White Stone Canoe, and has been a frequent contributor to periodicals.

Ed'gar, in Nobraska, a city of Clay co., 90 miles W. of Lincoln, on C. B. & Q., and St. J. & Gr. I. R. R.'s.; has railroad repair shops, large canning factory, pickle and vinegar works, creamery, and broom factory. Pop. (1897) about 1,750.

(1897) about 1,750.

Edge-molder, a. A cutting-machine for making a molding on the edge of a board.

Edge-roll, a. A bookbinder's tool for ornamenting book-covers: also the ornamentation thus

the edges of book-covers; also the ornamentation thus produced.

-v. a. To ornament by means of an edge-roll.—To form a rim on a coin.—To coil in a spiral.

Edge'wood Park, in Pransylvania, a post-borough of Allegheny co., 7 miles E. of Pittsburg. Pop. (1890)

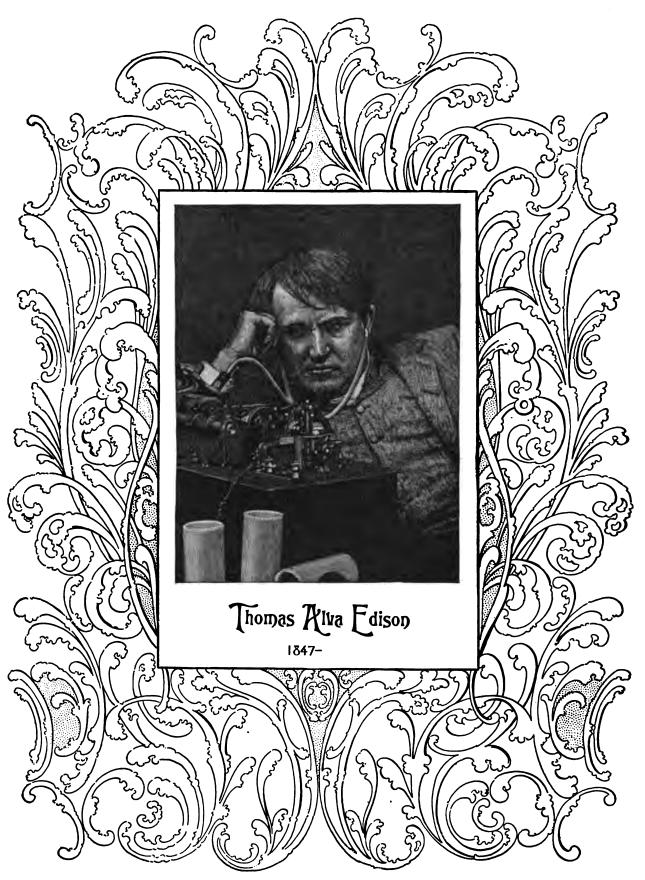
616.

of Allegheny co., 7 miles E. of Pittsburg. Pop. (1890) 616.

Edgreem, Anna Charlotta, authores, born in Sweden, Oct. 1, 1849. Her novels, of which she has written a number, were very popular. They include: Pictures of Life; True Women, &c. She has also published a drama, entitled Hose to do Good.

Edd'hem Pasha'. Turkish statesman and soldier, born at Scio, 1823; sold in his boyhood as a slave, and educated by his owner in the École des Mines, Paris; returned to Turkey, and began his career on the general staff, and was promoted, after holding several other positions, to that of captain-general of the imperial guard; was minister of foreign affairs and ambassador at several European courts. After holding various other offices in the service of his country, was appointed grand vizier in Feb., 1877, succeeding Midhat Pasha. In the war with Greece in 1897 he was commander-in-chief of the Turkish army, displayed marked ability as a leader, and quickly brought the war to an end by the defeat of the Greek army.

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Ed'ma Mills, in Mismesota, a village of Hennepin co. Pop. (187) about 714.

Ed'inburg, in Hisois, a post-village of Christian co., 18 m. S.E. of Springfield on Balt. & Ohio S. West R.E. Pop. (1890) 806.

Ed'inburgh, Alfred Ernest Albert, Durk or; second son of Queen Victoria, born at Windsor Castle, Aug. 6, 1844. His education was principally derived from private tutors; entered the British navy, and while in command of the frigate Goldzee (1867) visited Australia, Japan, China and India, &c.; was appointed (1886) admiral in command of the Mediterranean squadron. This prince was offered the crown of Greece, but declined it. He married the Grand Duchess Marie, only daughter of Alexander II., of Russia.

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Ed'inburgh and India, &c.; was appointed to China and India, &c.; was appointed of the Mediterranean squadron. This prince was offered the crown of Greece, but declined it. He married the Grand Duchess Marie, only daughter of Alexander II., of Russia.

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Ed'imburgh, Alfred Errest Albert, Duke or; second son of Queen Victoria, born at Windsor Castle, Aug. 6, 1844. His education was principally derived from private tutors; entered the British navy, and while in command of the frigate Galatea (1867) visited Australia, Japan, China and India, &c.; was appointed (1886) admiral in command of the Mediterranean squadron. This prince was offered the crown of Greece, but declined it. He married the Grand Duchess Marie, only daughter of Alexander II., of Russia.

Ed'iscom, Thomas Alva, inventor, born in Milan, Ohio, Feb. 11, 1857. His early years were spent at Port Huron, Mich., where at the age of 12, he became a newsboy on the Grand Trunk Line, running to Detroit. Here he experimented in chemistry, and printed and issued the Grand Trunk Line, running to Detroit. Here he experimented in chemistry, and printed and issued the Grand Trunk Heruld, probably the only newspaper issued from a railroad train. A station master, the life of whose child he had saved, taught him telegraphy, in which he soon gained remarkable proficiency; and he demonstrated his talent for invention by the production of an automatic repeater, which enabled messages to be transferred from one line to another without the intervention of an operator. He subsequently produced a system of duplex telegraphy, and in 1871 became superintendent of the New York Gold and Stock Company. His next invention was a printing telegraph for gold and stock quotations, to manufacture which he established a workshop at Newark, N. J. His faculty for invention was now fully developed, and finding that the details of business left him very little time for experimentian, he admedied the factory in 1876, and established a shop for experiment at Menlo Park, a railroad station about 24 miles from New York. Here he added rapidly to the number of his inventions in telegraphy details of business left nim very little time for experimenting, he abandoned the factory in 1876, and established a shop for experiment at Meulo Park, a railroad station about 24 miles from New York. Here he added rapidly to the number of his inventions in telegraphy and practical electricity, taking out over 50 patents in connection with improvements in telegraphy, including the duplex, quadruplex and sextuplex systems; the carbon telephone transmitter; the serophone, for amplifying, and the megaphone, for magnifying, sound, &c. Among his inventions was the wonderful phonograph, improved forms of telephone, and various improvements in the electric light, a multitude of experiments being made by him in the effort to discover the best filament for the incandescent lamp. In Dec. 1879, he exhibited a very complete system of electric lighting at Menlo Park, in which the electric light was successfully subdivided for the first time. Subsequently his experimental laboratory was removed to West Orange, N. J., where his active labors in investigation still continue. Of the hundreds of inventions produced by him, only a few are of commercial value, but some of these have added remarkably to the useful possessions of mankind. In 1883, he produced a greatly improved phonograph, and among his later inventions may be mentioned his process of obtaining iron, when present in small quantities, by the aid of magnetic attraction. The Edison Electric Light Company was established in New York, in 1878, and has grown there and elsewhere into a very profitable business. He has been given the degree of Ph.D., by Union College, and in 1878 was made by the French government chevalier of the Leglon of Honor, and commander of the Leglon, in 1889. He has also been made a grand officer of the cord of the Crown of Italy. The great number and variety of subjects to which he has given his attention is scarcely less surviving the most attention, has furnished but a single field for the display of his versatile powers. His path has prising than the marked success with which his labors have been crowned. Electricity alone, although receiving the most attention, has furnished but a single field for the display of his versatile powers. His path has been through extended portions of physical chemistry, and is clearly marked by characteristic inventions in these wast domains. Many of his inventions, it is true, these vast domains. Many of his inventions, it is true, are but improvements upon the methods of previous investigators, but many others have been produced while pursuing a line quite outside of that followed by these earlier pioneers. His intellectual powers are unquestionably of no ordinary kind, but his great success is the result, not so much of the gift of genius alone, as of his ceaseless activity and indomitable perseverance under all circumstances; these being the most remarkable characteristics of his nature and the real elements of his arthress.

able characteristics of his nature and the real elements of his success. **Ed' moond**, in *Oklahoma*, a post-village of Oklahoma Cu., on A., T. & S. F. R. R., 20 m. N. of Oklahoma City. *Pop.* (1897) about 2,000. **Ed' moore**, in *Michigan*, a post-village of Montcalm co., 64 m. W. of Saginaw, on Detr., Lans. & Nor. R.R.; has foundry, machine shop and flouring mills. *Pop.* (1894) 605.

foundry, machine anop and nouring mills. Pop. (1894) 595.

Ed'smamds, George Franklin, lawyer and statesman, born at Richmond, Vt., Feb. 1, 1828; studied law and was called to the bar (1849); served in the State legislature and Senate; in 1866 was appointed to fill a vacancy in the U. S. Senate, to which position he was four times reselected, being for a time (1883) president pro tem. of that body. During Pres. Johnson's administration he was active in the enactment of the Tenure of Office act; he opposed the admission of Colorado under a constitution confining the franchise to the whites, and was the anthor of the acts for the suppression of polygamy in Utah. He resigned from the Senate in 1891 and retired to private life, residing in Philadelphia.

Ed'smumds, in South Dakota, a N. central co.; area, 1,154 sq. m. Bieser. The North Fork and other branches of the Saake river. Agricultuse is the principal industry. Cap. Ipswich. Pop. (1895) 2740.

" Eftecome his chin dropped he." - Coleridge.

Egg'-carrier, \*. A box with card-board or other com partments for transportation of eggs without breakage.

Egg'-dance, n. A dance in which eggs are to be juggled with or avoided, so as not to be broken; hence,

juggled with or avoided, so as not to be broken; hence, any difficult undertaking.

Erg'-cater, n. A small South African serpent (Dasyfelis scaber) that feeds on eggs.

Erg'-glass, n. A small sand-glass used to time eggs in boiling—An egg-cup of glass.

Erg' gleston, Edward, author, born at Vevay, Ind., Dec. 10, 1837; when nineteen years of age entered the Methodist ministry. He became literary editor of the Methodist ministry. He became literary editor of the Methodist ministry. He became literary editor of Hearth and Home (1871); afterward pastor of a Congregationalist church in Brocklyn, but since 1879 has devoted himself entirely to literary work. His fiction includes The Hoosier Schoolmaster; The End of the World; The Circuit Rider; The Hoosier Schoolboy; Rory; The Fair Doctor, &c. More recently he has written A School History of the. United States; and the first volume of a still later work entitled States, was issued in 1897. Egleston, Thomas, LLD., mineralogist, born in New York city, Dec. 9, 1832; was a student at Yale and at the School of Mines, Paris, graduating in 1860; was later given charge of the mineralogical and netallurgical collections of the Snithsonian Institution, Washington, Besides his geological anniva of the first 10m mineral

the School of Mines, Paris, graduating in 1860; was later given charge of the mineralogical and netallurgical collections of the Smithsonian Institution, Washington, Besides his geological survey of the first 100 miles of the Union Pacific R. R., he accepted the commission to examine the fortifications of the U.S. Was one of the founders of the American Metrological Society; also of the American Institute of Mining Engineers, of which he was three times elected vice-president, and president in 1886. He has planned other works, and held offices in the ministry of the public, and taken out numerous patents. He is the author of Metallurgical Tables on Fuels, Iron, and Steel; Lectures on Mineralogy; Metallurgy of Gold and Silver, &c.

Eggo (c'gō or cg'o), s. [Lat. ego, I.] (Psychol.) The conscious subject, or self; that which thinks, feels and acts; the subject, as opposed to the non-ego, the not-self, or the object. According to Kant, the ego is either pure or empirical; the former being the thinking self, distinguished from all objects of thought—denoting the simple fact that everything mental is referred to the self; the latter—the empirical—being self as known in one's own experience, and, hence, to some extent, objective.

Egyp'tian, a. Of or pertaining to Egypt.

—a. A native or inhabitant of Egypt.—The language of

—a. A native or inhabitant of Egypt.—The language of Egypt.—A gypsy.

Egyp 'tian Darkmess.

O the "Plagues of Egypt;" total darkness.

Egyp 'tian Lan'guage. The present inhabitants of Egypt, of the middle and higher classes, speak an inferior Arabic, varying in Upper and Lower Egypt, leing less nearly correct in the region of the Mediterranceau. The Arabic is also the language of literature and learning. The succent Egyptic belonged to the rancan. The Arabic is also the language of literature and learning. The ancient Egyptian belonged to the Hamitte group of languages and was monosyllabic, or partly so. Its earliest expression in characters was the hieroglyphic (literally sacred corring) or picture-writing. This passed into the hieratic (sacred or pricedy), a running hand, used mently in papyrus documents. The demotic (of the people), or euchorial, was a form of the hieratic, used in the common dialect and for legal documents from about the 7th century before the Christian era. The last stage of the language was the Coptic, dating from the somewhat uncertain period of the introduction of Christianity into Egypt. It was written in Greek characters, with the addition of six letters from the demotic to express sounds not represented in Greek. In the course of centuries many words of Semitic origin had been introduced and the structure of the language

was materially changed. Instead of being monosyllabic

was materially changed. Instead of being monosyllable it became agglutinative; prefixes and suffixes were more freely used; and under Christian and Byzantine influence it adopted many Greek words and expressions. Though gradually dying out, it continued as a spoken dialect until the 17th century. It is still used in the religious services of the Coptic church, and is studied in its biblical and theological literature.

Egyptian Porce'lain. A kind of blue or green enameled earthenware found in Egyptian tombs.

Egyptoll'ogy, or Egyp'tiam Archaeol'ogy. The study of the writings and monuments of ancient Egypt, to which a vast amount of attention has been paid within the past century, with the result of an immense addition to our knowledge of the civilization of this most ancient of kingdoms. Egypt differs essentially from Babylonia, in that it presents stupendous monuments of architecture, while the latter country presents only mounds of earth. It therefore attracted the attention of architecture, while the latter country presents only mounds of earth. It therefore attracted the attention of architecture, while the latter country presents only mounds of earth. It therefore attracted the attention of architecture, while the latter country presents only mounds of earth. It therefore attracted the attention of architecture, while the latter country presents only mounds of earth. It therefore attracted the attention of Babylonia began. Among the earliest efforts were those to solve the mystery of the hieroglyphica, whose first success came in the discovery in 1799 of the Rosetts stone, with its parallel Greek and Egyptian inscriptions. Extended study of this stone led to the decipherment of its inscription, in which the first success was gained by Thomas Young, the celebrated mathematician, in 1814, and complete success by the French Egyptologist Champollion, whice results were given to the world on Sept. 22, 1822—a day which marks the literary true beginning of Egyptology. For ten years afterward Champollion continued by numerous others, until to-day the once mysterious



Fig. 2859.—RAMESES II., HOLDING TABLE OF OFFERING.

hieroglyphics can be read by experts with the utmost ease. Exploration has yielded a large number of Egyptian manuscripts and inscribed texts, the great bulk of which consist in religious books and rituals which were placed in the tomb, usually in the coffins of the mummies. The most common of these is the Book of the Dead, or Funerul Ritual, of which there are many copies. But the papyri which have been exhumed, and which are preserved in the various European museums contain numerous examples of secular liters. humed, and which are preserved in the various European museums, contain numerous examples of secular literature, comprising poems and songs, stories resembling those of the Arabian Nighti Eulertaismests, fables, epistolary correspondence, geographical documents, and historical records; the last including numerous partial lists of kings, which have proved of high value in the study of Egyptian chronology. Many of these exist as inscriptions on the walls of temples, on which also is inscribed the most ambitious of Egyptian poems, that describing the heroic feats of Rameses II. at the battle of Kadesh against the Hittites of Syria.—Exploration. In addition to this literary study, a great amount of work has been done in the investigation of the tomb, pyramids, and sites of the ancient cities, with abundant and important results. The story of this exploration is too long to be given here except in outline. It covers the lations of numerous explorers in the 18th and the first half of the 19th century, and the more systematic labors of the last half of the latter century, and includes the opening and exploration of the great pyramids, the excavation of the partly sand-buried temples, and the opening and study of numerous excavated tombs, on whose walls almost the whole story of Egyptian manners and customs was painted or insertibed. The more systematic labors have been those of Auguste Mariette (Mariette Pasha) in the interest of France from 1940. museums, contain numerous examples of secular literaand customs was painted or inserined. The more sys-tematic labors have been those of Auguste Mariette (Mariette Pasha), in the interest of France from 1849 to 1854, and of Egypt from 1858 to 1881; of the French "Permanent Archeological Mission;" and the English "Egypt Exploration Fund." The work of Mariette

opened the way for more recent research. It included the discovery of the Serapeum of Memphia, the clearing from rubbish of the temples of Edfu, Karnak, Deuderah, Abydos, &c., and the exploration of the valley of the Nile from Tanis to Napata, whose results are the wonderful museum of Egyptian antiquities collected at Boulak and transferred in 1889 to Glizch. From Mariette this important work passed to Maspero (1881–1886), to Grelaut (1884–1892), and in 1892 to De Morgan. Since 1883 the Egypt Exploration Fund has sent out Neville, Petrie, and other explorers, whose work has been of the highest value to archeological science. Of the discoveries made by Mariette, one of the most interesting was the small temple, built of red granite and alabaster, dug by him from

the sains that enveloped the case of the Great Sphynx, between whose paws it lay, and which contained 9 portrait statues of Kafris, a Pharach of the 4th Dynasty and builder of the 2d pyramid of Ghizels, of which one, a much status in great dioxite. a superb statue in green diorite, nearly perfect, was given the place of honor in the Boulak nearly perfect, was given the place of honor in the Boulak Museum. This structure, known as the "Temple of the Sphynx," was discovered in 1881 to have no relation to the Sphynx, a paved causeway being unearthed which leads directly from it to the pyramid of Kafra, whose manueleum it probably was. One important feature of late research has been the exploration of pyramids, of which no less than 14 wer opened in the years 1881-83. Of these pyramids, the most important was that of Meydoom, which stands in the midst of a very ancient necropolis, containing tombs belonging to the of a very ancient necropolis, containing tombs belonging to the reign of Senerferoo, last king of the 3d Dynasty. This pyramid differs from all others in being built in stages or tiers, like enormous steps, and towers to a height of 240 feet above the plain, the débris of the upper stages forming an immense mound, 120 feet high, above the base of the structure. This has been cut through, and reveals the open masoury, which looks perfectly new, and is superior in character to any other masonry in Egypt. It had been opened and rifled in ancient times, as indeed all of the fourteen had been.—Royal Mananies. The most interesting and extraordinary archæological



COLUMN SHOWING NAMES OF RAMESES II

the fourteen had been.—Royal Mammiss. The most interesting and extraordinary archaeological "find" ever made in a single locality was made on July 2, 1881, in the discovery of a sepulchral treasure of the highest value. The existence of such a locality and the knowledge of it by Egyptian fellahs had long been suspected, objects of great historical and archeeological interest, belonging mostly to the 21st Dynasty, being annually sold to European travellers at Luxor by certain persons. Among these were vases, statuettes, and several superly papyri written for royal personages of the family of the Pharsoh Her-Hor. Maspero traced this traffic to four Arab brethren, one of whom was finally induced to raveal the secret, and led the museum officials to a lonely spot in the limestone hills of Luxor, where they were shown the mouth of a small pit and told that this led to the treasure house. It was so well concealed that even an anxious explorer might have passed it frequently without detecting the opening. The vertical shaft led to a narrow

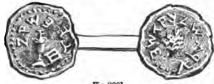


Fig. 2861.
FRONT AND REVERSE OF THE HALP-SHEKEL.

FRONT AND REVERSE OF THE HALP-SHEEKE.

horizontal passage along which they had to crawl on hands and knees, and which was in all 81 meters long. It opened into a sepulchral chamber, which was strewn with fragments of mummy cases and linen wrappings, and contained several enormous and elaborately painted sarcophagi, and a group of mummy cases, mostly standing upright, on which were painted in hieroglyphics the names and titles of the deceased. To the astonishment of the observers, they read the names of nearby all the most famous monarchs of the 18th and 19th dynastics, among Thothmes III., perhaps the greatest of the Phararohs, Seti I., a warrior of high renown, and Rameses II., the Sesostris of the Greeks, usually entitled "The Great." There were others of the 17th and 21st dynastics, the total number of kings, queens, princes and princesses found being twenty-five. Entering the mortuary chamber at the end, they beheld an extraordinary sight. It formed a vault packed from floor to ceiling

with great sarcophagi, gorgeously painted and varnished. These proved to be the coffins of the family of Her-Hor, high-priest of Amen at Thebes under the last king of the 20th dynasty, and the founder and first king of the 20th. His body was not found, but that of his mother, his two queens, and several of his children and grandchildren were there, with other personages belonging to this royal line. This crowding of so many royal mumnies, of various ages, into a single sepulchrar cympal mumnies, of various ages, into a single sepulchrar cympal mumnies, of various ages, into a single sepulchrar cympal mumnies, of various ages, into a single sepulchrar cympal mumnies, of various ages, into a single sepulchrar cympal mumnies of the company of the valut which showed that the tomb was continuously in use, and was the family sepulchre of the priest-kings—Her-Hor and his descendants. The storage there of the bodies of earlier kings is supposed to have been done as an act of preservation, we having documentary evidence to prove that robberies of royal emmission of their contents in many instances; while for Rameses the Club dynasty. This accounts for the boken and battered condition of the mumny cases, and the loss of their contents in many instances; while for Rameses the Club dynasty workmomity, han dysarovided. The inscriptions on the coffin and the landages of the mumny showed that this royal corpse had been four times shifted from tomb to tomb before being finally deposited in the sepulchre of the priest-kings. These royal mummies have been again removed, with their resources and one repose in the Museum of Egyptian Antiquities.—Work is the Delta. The more recent work in Egypt has been largely done in the delta region, where were various mounds, the supposed remains of ancient cities and temples, many of which have been lately explored. The first explorer sent on by the Egypt Exploration Fund.—Edward Neville, of Geneva—chileved a signal success in the study of the private of the sent services and the sent services

missing early Christian literature may yet be exhumed-Important and very recent discoveries include that of the cap of the Sphynx (Fig. 2862), hitherto missing, and



Fig. 2862.—CAP OF THE GREAT SPHYNX. d from a photograph taken in March, 1897.

Engraved from a photograph taken in March, 1897.

now found at a depth of some 15 feet beneath the surface in the temple already mentioned, between the fore paws of the statue. The cap measures 4 feet 3 inches long and 2 feet 9 inches wide, and is marked with the three lotes columna, under which is a figure which appears to be that of a snake. It is painted red, and bears an inscription. By clearing away the rubbish from the great temple of Karnak the walls and pillars in the Hall of Columns have been nearly doubled in height, and an avenue of sphynxs has been found, leading westward to a stone quay, whose walls bear inscriptions of historical value. Of late discoveries, however, the most important is that of a selso retablet of Mernephthah, found by Prof. Petrie, at Thebes, in which the name of Israel occun, the first instance in which that name has been brought to attention in Egyptian records. It was found in the foundations of a temple, on a block of black syenite, lo feet 3 inches long, 5 leet 4 inches wide, and 13 inches thick, being the largest known of this material. It had originally stood in the temple of Amenhotep III, of whom it bore an inscription. This had been used by Mernephthah with an inscription 1,400 words in length, which recites the deliverance of Egypt from the Libyans, the flight of their king, and the security which succeeded in Egypt, ending with an account of the relations which afterward existed between Egypt and various other nations. In this inscription occurs the following line, "The people of Israel is spoiled, it hath no seed; Syria is widowed" (Fig. 2863). Still another mentous



Fig. 2863.—" IRRABL," IN HIEROGLYPHICS. Engraved from a photograph of the stell found by Petrie.

of Israel by Mernephthah has been found by Dr. William

of Ierael by Mernephthah has been found by Perne.

of Ierael by Mernephthah has been found by Perne.

of Ierael by Mernephthah has been found by Dr. William Speigelberg, which had escaped notice on account of only the first part of the name being preserved. It is written I-s-I-ra-e-I-n, with the determinations of "man" and "woman." Whether these lines refer to the larelites while still in Egypt, or to some attack on them in Palestine, is an unsettled point.

Eh'remfeld. in Pennsylconia, a post-village of Cambria co. Pp. (1897) about 580.

Elch'wald. Charles Edward, naturalist, born at Milan, Russia, July 4, 1735; educated at Berlin and Vienna; filled successively chairs of Zology, Micralogy, and Palecontology at Kasan, Wilna and St. Petersburg. His scientific researches were of great service to Russia, his writinge including scientific records of his travels, which were extensive, and works of value on the mineral wealth, palecontology and ziology of that country. Died at St. Petersburg, Nov. 10, 1876.

Eldolofogy, n. [Gr. eidolos, image, and logos, this couse.] (Philos.) The theory of representative ownition, or knowledge acquired by means of a mental image of the object known.

Eld'olom, n. (pl. Emola.) [Gr.] Likeness, representation, image.—A specter; an apparition.

El'doscope. n. [Gr. eidos, form, and scopeō, to see] An instrument on the principle of the Kaleidoscope, producing an infinite variety of figures or colors by means of independently revolving disks of perforate means of independently revolving the screen.

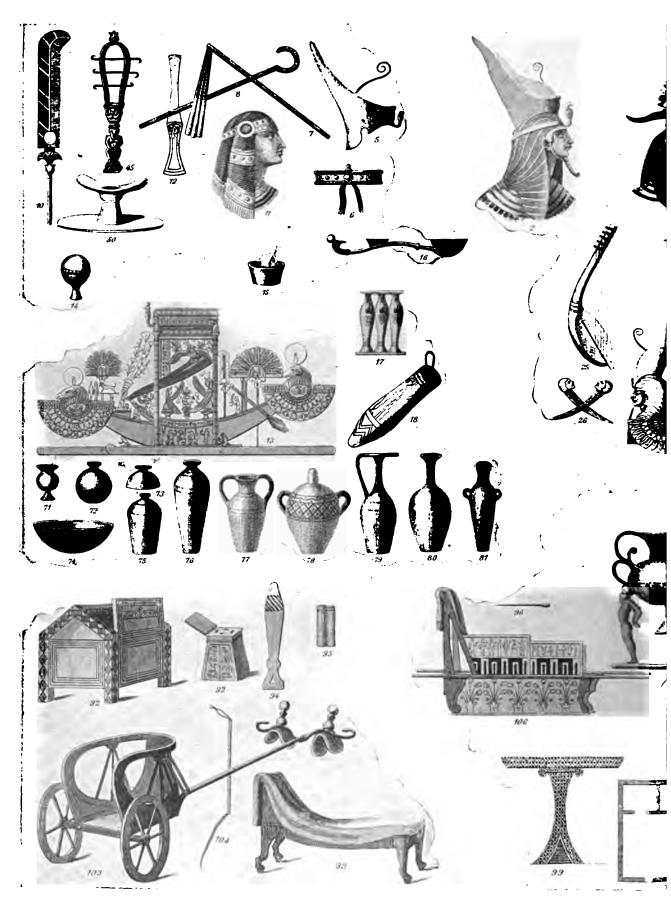
Elffell, Gystavz, engineer, born at Dijon, Franca, in

tern, causing singular combinations to appear upon the screen.

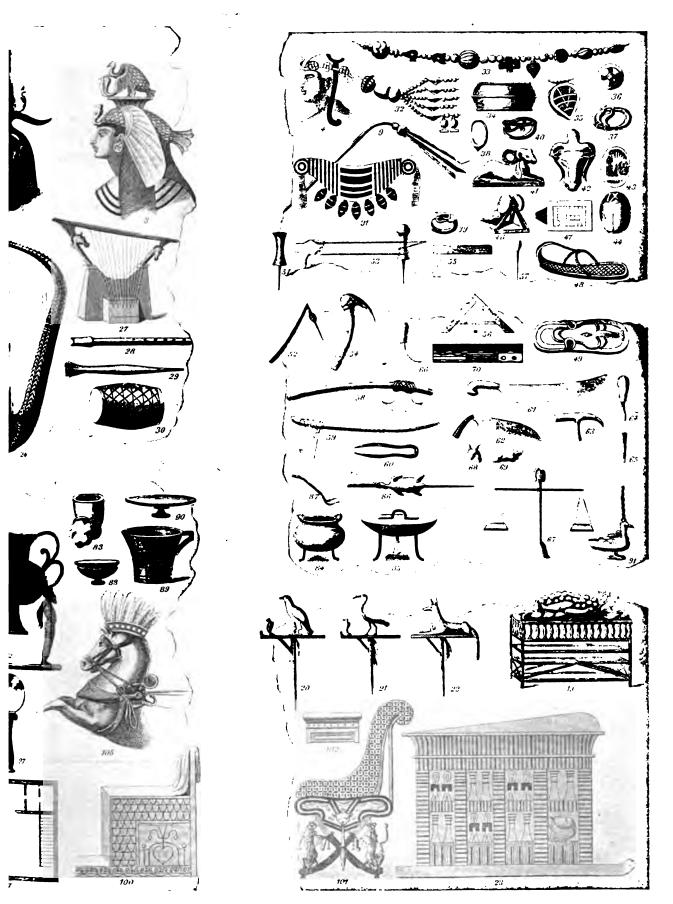
Eiffel, Gustave, engineer, born at Dijon, France, in 1832; studied at the Ecole Centrale; was one of the first to introduce caissons worked by compressed at. He is best known by the tower which bears his name in the Champ-de-Mars in Paris. Other triumples of his engineering skill are the bridge over the Dours at Oporto, the great visaduct of Garabit, in Cantal, and that over the Tardes, near Montlucon.

Eiffel Tower. (Arch.) A colossal open-work into tower erected by Gustave Eiffel on the Champ-d-Mars at Paris, as one of the attractions of the French International Expesition of 1889. This tower is 300 meters (986 feet) in height from the ground to the platform at

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EGYPTIAN ANTIQUITIES.
1-10. Insignia of royalty: 1-3, Head-dresses; 4, head-dress of royal youth; 5, cmp of 13-22. Articles used in public religious worship: 13, Processional-boat of the gods; 14, 28, 29. Flutes.
28, 29. Flutes.
29. Drum.
21. Collar.
22. Necklace.
23. Necklace with pendants.
24. Articles of lewelry.
24. Amulets.
25. Signia vessels.
28. Large vase.
28. Couch.
29. Couch.
29. Table.
29. Couch.
29. Table.
29. Couch.
29. Table.
29. Seat.



- wer Egypt: 0. diadem. ornamented with the "urgus;" 7, whip; 8, shepherd's crook; 0, 10. sceptres. 11, 12. Insignia of courtiers.
5. 17, 18, various utensils; 16, censer; 19, offering; 20-22, standards. 23. Mummy-bier. 24. Harp. 25. Lute. 26. Castanets. 27. Lyre.
5. 46, 47. Seals. 48, 49. Sandals. 50. Head-rest. 51-66. Tools. 67. Scales. 68, 69. Scale-weights. 70. Palette. 71-81,83. Various forms of 01. Ornamented chair. 102. Pootstool. 103. Charlot. 104. Whip. 105. Harness. 106. Sedan chair. 107. P.an of an ancient Egyptian house.

4

the summit, and contains three stories, reached by a series of elevators. It is of light structure and grace-ful form, containing in all nearly 7,000 tons of from. The cost was about \$1,000,000, of which about two-thirds was supplied by M. Effel himself, who expects to be reimbursed from the admission fees during the 20 years for which he was granted a concession. This tower is still one of the principal sights of Paris, and at its summit important meteorological observations are

carried on.

Eisembohr, August, Egyptologist, born at Mannheim, Ger., Oct. 6, 1832; studied theology at Heidelberg
and Göttingen; afterwards devoted himself to natural
sciences, especially chemistry; began the study of
Chinese and Egyptian hieroglyphics in 1865. For his
analytical explanation of the demotic part of the
Rosetts stone, he was appointed instructor in Egyptology in the University of Heidelberg, and was later
made professor extraordinary. He purchased the Harris
papyrus, a document of Rameses II (1320 B. C.), which
he translated, and also translated and explained another
tanyrus of the Alexandria Museum.

, papyrus of the Alexandria Museum.

Elam', s. [Fr.] Ardor or impetuosity; brilliant dash, as of troops.

as of troops.

El'bert, in Colorado, an E. co., area, 1,880 sq. miles.

Elrert, Big Sandy; Bijou and Kiowa creeks. Farming,
dairying, and stock-raising are the principal industries.

Cip. Kiowa. Pop. (1897) about 2,400.

El'ourm, in Illiania, a post-village of Kane co., 9 miles
W. of Geneva, on Chic. & N. W. R. Has flour-mills
ant tille-works. Pop. (1890) 584.

El'don, in Inco., a post-town of Wapello co., on Des
Maines river, 12 miles S.E. of Ottumwa, on Chic., R. I. &
Pa. R. R. Pop. (1890) 1,725.

El Boora'de Sportangs, in Missouri, a city of Cedar
co., on Des Moines river, 10 m. S.E. of Harwood, the
nearest R.R. station, on Mo., Kans. & Tex. R.B. Pop.
(1890) 1,543. 1.543

20 m. E. of Bradford, on West, N. Y. & Pa. R.R.; has estensive shipments of lumber, leather and bark. Pop.

(183) (1930). Electional Commission. (Amer. Pol.) A commission appointed under an act of Congress, approved Jan 29, 1877, "to provide for and regulate the counting of votes for President and Vice-President, and the Jan. 22, 1877. To provide for and regulate the counting of votes for President and Vice-President, and the decision of questions arising thereon, for the term communing March 4, 1877." It was composed of five members chosen by the Senate and a like number by the House of Representatives; these, together with five Associate Judges of the Supreme Court of the U. S., formed fifteen in all. The act passed the Senate thus: Yeas—Republicans, 21; Democrates, 26; total, 47. Nays—Republicans, 19; Democrata, 1; total, 10. The House voted: Yeas—Republicans, 32; Democrata, 18; total, 191. Nays—Republicans, 32; Democrata, 18; total, 191. Nays—Republicans, 32; Democrata, 18; total, 18. Not voting—Republicans, 7; Democrata, 18; total, 18. Not voting—Republicans, 7; Democrata, 7; total, 14. The Commission was composed of Nathan Cliford, Associate Justice Supreme Court, First Circuit; William Stroug, Third Circuit; Samuel F. Miller, Eighth Circuit; Stephen J. Field, Ninth Circuit; Joseph P. Bradley, Fifth Circuit. Senators George F. Edmunds, Oliver P. Morton, Frederick T. Frelinghuysen, Alen G. Thurman, Thomas F. Bayard; Representatives Henry Thurman, Thomas F. Bayard; Representatives Henry P. Bradley, Fifth Circuit. Senators George F. Edmunds, Oliver P. Morton, Frederick T. Frelinghuysen, Allen G. Thurman, Thomas F. Bayard; Representatives Henry B. Payne, Eppa Hunton, Josiah G. Abbott, James A. Garfield, George F. Hoar. The vote in the Commission upon the Florida, Louisiana, and South Carolina counts was: For the Hayes electors—Messrs. Bradley, Edmunds, Frelinghuysen, Garfield, Hoar, Miller, Morton, Strong, 8: for the Tilden electors—Messrs. Abbott. Bayard, Clifford, Field, Hunton, Payne, Thurman, 7, which practically gave the decision to Mr. Hayes. This result was reached March 2. The vote in the Electoral College was: Hayes and Wheeler, 185; Tilden and Hendricka, 184; and thus was settled a question which a one time threatened to result in civil war and anarchy. Electrollegy, s. [Analogous to chandelier.] A branching frame for holding electric lamps.

Electruma, s. [Lat.; Gr. clektros, amber;—was also applied by the ancients to a metallic substance consisting of 4 parts of gold and 1 part of silver.] (Mis.) A natural alloy of gold and silver in the proportion of two of gold and one of silver. It is found in tubular crystals and imperfect cubes of a silver-white color.

Electromary masry, a. [From Chee, 2007, done or performed without reward; relating to charitable donations; founded by charitable donations, for the purpose of dispensing some gratuity or benefit.

(Law.) E corporations are corporate bodies consti-

pensing some gratuity or benefit.

(Las.) E corporations are corporate bodies constituted for the perpetual distribution of the free alms or bounty of the founder of them, to such persons as he has directed. Of this kind are all hospitals for the maintenance of the poor, sick, and infirm.

One who lives on alms.

estates of the poor, see, as a same and the poor, see, and legamee, or El'egamee, a. [Fr. lligance; Lat. elegania, from elegans, for eligens, from eligo—e, ex, and lego, to pick, to choose.] A choosing or selecting, with nicety, care, taste or judgment; exquisiteness; fastidiousness; that which pleases by its propriety, grace, purity, symmetry, or beauty; gracefulness; politeness; reforement; high polish; purity; neatness. El'egans, a. [Fr. cligans, from Lat. elegans.] Choosing with nicety, care, taste, or judgment; fastidious; nice; luxurious; effeminate; pleasing to good taste; pleasing by beauty, grace, purity, symmetry, or propriety; graceful; neat; pure; refined; polished; polite; genteel; beantiful; handsome; symmetrical; choice;

sensible to beauty; discriminating beauty from deformity or imperfection, as taste; rich; costly and orna-

mental.

llegi'ac, a. [L. Lat. elegiacus; Gr. elegeios.] Belonging to elegy; plaintive; expressing sorrow or lamentation; used in elegiac. Elegi'ac, a.

tion; used in elegiac.

a. Elegiac verse.

Elegi'acal, a. Belonging to an elegy, or to elegiac verse; elegiac.

El'egist, Ele'giast, Elegiog'rapher, s. A writer of elegiac.

El'ements. Chemical. (Chem.) The simplest known constituents of chemical substances. Chemists

Elements, Chemical. (Chem.) The simplest known constituents of chemical substances. Chemists regard as elements only those substances which have not been proved to be compounds; though there is reason to believe that some, perhaps many, of these are actually compounds, and may be proved to be so in the future, as supposed elements have been in the past. The elements are somewhat arbitrarily divided up into metals and non-metals, of which the former are far the larger class. But no well marked line of demarcation separates these classes, which seem to shade into each other on their border line. The non-metallic elements, as commonly classed, are thirteen in number, viz.: Hydrogen, chlorine, bromine, iodine, fluorine, oxygen sulphur, selenium, boron, nitrogen, phosphorus, carbon and silicon. Of these, however, hydrogen displays certain characteristics assimilating it with the metals. Many chemists at present entertain the view that allementary substance, while many others look for a reductive. the elements are compounds of one fundamental elementary substance, while many others look for a reduction in the present list, which may come through the decomposing action of the electric furnace. The Greeks recognized four elements only: earth, air, fire, and water; the ancient Chinese five: earth, water, fire, wood, metal; the ancient Hindus five: earth, air, fire, water and ether. At present sixty-four are recognized, to which parhaps aron and helium will doubtless be water and other. At present sixty-four are recognized, to which perhaps argon and helium will doubtless be added, with several others whose claims are not yet substantiated. For a list of the elements and their combining weights, see Arom.

Elevators, or Lifts. (Arch.) devices for lifting fractif to reseasoned from the ground to higher them.

bining weights, see Aron.

El'evators, or Lifts. (Arch.) Devices for lifting freight or passengers from the ground to higher elevations, or for lowering them from higher to lower points. They consist of a closed car or open platform, raised by ropes or chains, or pushed up by a ram from below, steam or other power being employed for this purpose. The car moves between vertical rails of wood or metal, which hold it in place. Elevators, in some form or other, have been used from a remote period, being propelled by human, animal, or water power, but their extensive application to buildings dates only from about the year 1850. Their common employment has enabled the year 1850. Their common employment has enabled buildings of great height to become common, and has greatly extended the area of habitation within city limits. Elevators are variously classed, in accordance

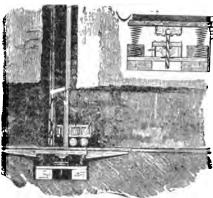


Fig. 2864.—AUTOMATIC STOP FOR ELEVATOR.

with the kind of power used in working them, as handbelt, steam, hydraulic, and electric. The character of these is indicated by their titles.—Hand-electators are worked by hand power, and are serviceable only for light weights. Those driven by belts are employed in factories where power is distributed by shafting, the ropes supporting the car being wound upon drums revolved by belt-driven pulleys and gearing. In steam elevators the drums are caused to revolve by the power of steam engines applied directly, the engine forming part of the apparatus. These are used in mines, blast furnaces, and warehouses, where considerable weights are lifted and no other application of power is needed.—Hydraulic elevators are of two kinds, the suspended and the ram, the latter much used in Europe. The ram elevator consists of a cylinder containing a ram or lifter, whose top supports the car. When water is admitted to the cylinder the ram is lifted by hydraulic pressure, carrying the car with it. When the pressure is relieved, the car and ram descend by their own weight. In the suspended form, lifting chains or cables are employed, passing over sheaves at the top of the building, and at the bottom around alternately fixed and movable sheaves. The movable sheaves are attached by rods to a piston moving in a cylinder, as in the instance of the ram. When water pressure is admitted to the cylinder, the piston is lifted, the sheaves forced with the kind of power used in working them, as hand

apart, and the cable taken up, the car being thus lifted. Ou removal of the pressure, the car descends by its own weight, drawing the sheaves together. In towers which possess high pressure water service the cylinders may be connected directly with the mains; and in other cases artesian wells supply the necessary water. When the pressure is insufficient, water is pumped into storage tanks at the top of the building, a head being thus obtained, and in some instances additional force is obtained by the use of closed tanks partly filled with compressed air. Where tanks are employed the same water may be used over and over again, the only loss being from evaporation.—Electric elevators are quite similar in principle to steam elevators, the only difference being from evaporation.—Electric elevators are quite similar in principle to steam elevators, the only difference being in the kind of power and motor employed. The ascent and descent of the elevator are controlled by means of a rope which is connected with the moving apparatus, and which, in belt or power elevators, operates a belt-shifter—that is, a valve which cuts off the steam or water, or reverses the direction. A switch serves this purpose in electric elevators, making or breaking circuit, or reversing the current at will. The operating circuit, or reversing the current at will. The operating rope may be worked directly by hand, or indirectly through the use of a lever or hand wheel. Another important requisite of elevators is a asfety device, to control their speed, prevent their running beyond their limits, and to check a dangerous fall in case the cables break. To prevent overrunning, stop balls are employed limits, and to check a dangerous fall in case the cables break. To prevent overrunning, stop balls are employed on the operating rope, which act automatically in the case of neglect by the operator. In elevators run by drums or hydraulic pistons, the valve is closed automatically when the car has reached its maximum height or descent. To prevent a fall, grips are employed, which are brought into action by springs or levers actuated

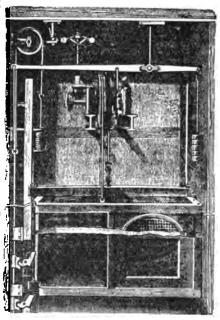


Fig. 2865.—RAFETY ATTACHMENT FOR ELEVATORS.

by the breaking of the cable, and which act upon the strips or rails guiding the car. If the car descend at dangerous speed, ball governors on the top of the car operate the safety grips, these balls opening sufficiently to do so when a certain speed is attained. Safety grips are of varied forms, the most common being wedges which squeeze the guide strips, or toothed dogs which cut into the strips, which, in this case, are made of wood. Of notable elevators may be named the steam elevators in the Washington Monument, 500 feet in length of travel; the hydraulic elevators of the Elifel Tower, with 420 feet of travel and a speed of 400 feet a minute; and the hydraulic elevators in the station of the North Hudson County Railway Co., at Weshawken, N. J., which can lift 140 persons at a speed of 300 feet per minute. The elevator has become an indispensable adjunct to modern architectural methods, rendering possible the habit of living in flata, now common in many crowded cities, and the use of office buildings reaching many stories into the air.—Grain Elevators a structure of a different kind, the great buildings for the storage and easy handling of grain, in which it is often kept for mouths. Some of these elevators are capable of storing from 1,000,000 to 1,500,000 bushels of grain within their capacious walls. The largest of these exist at Chicago and Buffalo, cities through which passes a large percentage of the grain of the U. S. The grain on being received at the elevator is examined and graded, the farmer or merchant being credited with so much grain of such quality, and grain of that quality being delivered from the elevator on his order. Elevators are usually built so as to permit easy accese of vessels, and have railways entering them from the street. The

1140

grain is carried into the elevator and delivered from it by the aid of a chain bucket which grain is carried into the elevator and delivered from it by the aid of a chain bucket, which receives its motion from an endless band passing over shafts in the upper part of the building, the engine and boiler being placed in an adjoining edifice. By this means vast quantities of grain can be handled at small expense, being taken in a continuous stream from the wagons and cars, and delivered in like manner directly to the hold of the vessel to be loaded. In New York floating elevators are frequently employed to transfer grain from harves delivered in like manner directly to the nold of the vessel to be loaded. In New York floating elevators are frequently employed to transfer grain from barges directly to sea-going vessels.—Within a recent period, experiments have been made in the employment of pneumatic tubes for handling cereals in bulk, by the use of which grain has been successfully transferred from car to elevator and thence to vessel; the power being that of compressed air, by means of which the grain is "pumped" from one point to another. In connection with this method of transport, low storage buildings, made of iron, take the place of the usual lofty elevators. This system has not been largely adopted.

Elf'gin, James Brucz, eighth Earl of; statesman, born in London, Eng., July 20, 1811; studied at Oxford; was made Governor of Jamaica, and did much to improve the position of the negroes, who had received their freedom during the previous administration; was afterward Governor-General of Cansala (1846), and was created a peer of the United Kingdom (1849). In 1859 was made dostmaster-General, and later Governor-General of India. His mission to China met with much success, and he

Postmaster-General, and nater covering a success, and he was also chosen to negotiate with Japan the treaty of

His mission to China met with much success, and he was also chosen to negotiate with Japan the treaty of Yeddo. Died at Dhurmsala, India, Nov. 20, 1863.

Elf'let, Chrattes William, LLD, educator, born at Boston, Mass., Mar. 20, 1834; graduated at Harvard (A.B.) in 1853; tutor and professor in that institution until 1863; professor of chemistry in Massachusette Institute of Technology (1865-69), and since president of Harvard University. vard University.

or 1 secunology (1803-00), and ance presedent of Harvard University.

Eilot, George. See Cross, Mary Ann.

Eilot, George. See Cross, a post-village, cap. of Wirt co., 20 m. S. of Parkersburg; has 4 saw-mills and a grist-mill. Pop. (1890) 710.

Eilk, City, in Kansaca, a S. E. county; area, 651 sq. m. It is iraversed by Eik river. Soli is fertile. Mis., blue and white limestone, sand-tone, marble and coal. Pop. (1895) 10,820. Cap. Howard.

Eilk City, in Kansaca, a post-village of Montgomery co., 13 m. W. N.W. of Independence, on Atch., Top. & S. Fe and Mo. Pac. R. Rs. Pop. (1895) 770.

Eilk Garden, in West Virginia, a post-village of Randolph co., 7 m. from Beverly, on W. Va. Cent. & Pitts. R. R.; has railroad machine shops and several mills. Pop. (1890) 737.

1890) 737.

(1890) 7.37.

El'ko, in Nerada, an extreme N. E. county; area, 17,662
sq. m. It is drained by the Humboldt river and its
north and south forks. It is partly mountainous and
contains silver mines. It has also large arid plains in
which timber and water are scarce. Pop. (1890) 4,794.

Cap. Elko.

El Tendale, in North Dakota, a city, cap. of Dickey co, 50 m. W. of Batland, on Chic., Milw. & St. P. and Gt. Nor. R.Rs. Pop. (1890) 761.

El Tensburg, in Washington, a city, cap. of Kittias co, 136 m. E. of Tacoma, on Nor. Pac. R.R.; has large foundry, sash and door factory, flour and planing mills.

Trade center of large mining region. Pop. (1890) 2,768. El Tet, Charles, engineer, born at Penn's Manor, Bucks co., Pa., Jan. 1, 1810; studied mathematics and engineering, completing this course at the Ecole Polytechnique, ing, completing this course at the Ecole Polytechnique, Paris. He practised his profession successfully, and during the early days of the Civil War came into prominence through his hasty construction of a fleet of improvised iron-clads and rams, made from the ordinary river boats and used by the Federals on the Mississippi river. E. being given command of the squadron. He was severely wounded, June 6, 1862, during an engagement, and died at Cairo, Ill., on June 21. E. built the first wire suspension bridge in the U. S.—that over the Schuylkill, at Philadelphia—and was largely instrumental in the construction of the first suspension bridge at Niagars.

instrumental in the construction of the first suspension bridge at Niagara.

El'linwood, in Kansus, a post-village of Barton co., on Arkansus river, 10 m. E. of Great Bend, on Atch., Top. & S. Fe. R.R. Pop. (1895) 692.

El'liot, in Kentacky, a N. E. co.; area, 270 sq. m. It is intersected by forks of Little Saudy river. The surface is broken and hilly, most of it covered with forests. Coal and iron ore are abundant. Pop. (1890) 9,214. Cap. Sandy Huck

Coal and iron ore are abundant. Pop. (1890) 9,214. Cap. Sandy Hook.

El'Hoot., Stephen, naturalist, born at Beaufort, S. C..

Nov. 11, 1771; graduated from Yale; was one of the founders of the Literary and Philosophical Society of South Carolina; was professor of Natural History and Botany, in the State Medical College (S. C.), which he also aided in founding. He published The Botany of Bouth Carolina and Georgia, and also edited, for a time, the Southern Review. Died at Charleston, S. C., March 98 1820.

28, 1830.
Elliott, Stephen, P. E. bishop, born at Beaufort, S. C. Aug. 31, 1806; asn of Stephen E., the naturalist; was a graduate of Harvard College, and was called to the bar of S. C. He held the chair of Sacred Literature in bar of S. C. He held the chair of Sacred Literature in South Carolina College, and was ordained priest in 1836; was consecrated bishop of Georgia (1840), and privisional bishop of Florida (1844). Died at Savannah, Ga., Dec. 21, 1856.

Elfost, Stephen, Ja., soldier, born at Beaufort, S. C., 1832, son of the preceding; entered the Confederate service during the Civil War and was promoted for

gallant service. During the Federal bombardment of Sumter he had command of that fort. A wound re-ceived from a mine explosion obliged him to retire from active service. In 1865 he took the oath of allegiance

ceived from a mine explosion obliged him to retire from active service. In 1865 he took the oath of allegiance to the U.S. Died at Alken, S. C., March 21, 1866.

El'148, ALEXANDER JOHN, Philologist, born near London, June 14, 1814; graduated from Cambridge (1837); was at successive periods elected a fellow of the Royal Society and the Society of Antiquaries, president of the Philological Society, and a member of the Mathematical Society of London. His works are valuable, and include: Essentials of Phonetics; Universal Writing and Printing, Practical Hints on the Quantitative Promunciation of Latin, &c.

Ellis, George Edward, D.D., Unitarian clergyman, born in Boston, Aug. 8, 1814; graduated from Harvard in 1833; studied at Cambridge divinity school, and was ordained pastor of a church in Charlestown, Mass., in 1840. Was for some years editor of the Christian Ecamiser, and one of the editors of the Christian Ecamiser, He is president of the Massachusetts Historical Society, and author of The Half Century of the Unitarian Controversy; The Red Man and the White; History of the Battle of Bunker Hill, &c.

Ellis, in Kansaca, a W. central co.; area, 625 sq. m. It is intersected by the Smoky Hill fork of Kansas river, by Big creek and by Saline river. The surface is nearly level prairie, with scarcely any timber; the soil is fertile. Pop. (1895) 7,478. Cop. Hays.

Ellis, in Kansac, a city of Ellis co., 14 m. W. of Hays city on Union Pacific R. R.; has railroad repair shops. Pop. (1895) 1,017.

(1895) 1,017.

city on Union Pacine as. B.; has resirvest repairs energy.

Pop. (1895) 1,017.

El'fiston, Robert William, actor, born in London,
1774; educated at Cambridge; made his first appearance on the stage at Bath. He was one of the best
comedians and tragedians of his day; a member of the
Drury Lane company, and afterwards lessee and manager of that theater, from which he retired a bankrupt
in 1826. Died July 8, 1831.

Ells'worth, in Josea, a post-town of Hamilton co., 18
m. 8. E. of Webster City, on C. & N. W. R. R. Pop.
(1897) about 1,250.

Elim Grove, in W. Virginia, a post-village of Ohio co.,
5 m. 8. E. of Wheeling. Pop. (1890) 594.

Elim'hurst, in Illinois, a post village of Du Page co.,
15 m. W. of Chicago, on C. & N. W. R. R.; has
manufacturers of brick and tile. Pop. (1890) 1,050.

El'moore, in Alabama, an E. central co.; area, 552 aq. m.

15 m. W. of Chicago, on C. a. N. W. is.; nasmanufacturers of brick and tile. Pop. (1890) 1,060.

El'more, in Alabama, an E. central co.; area, 652 eq. m.
It is bounded on the E. and S. by the Tallapoosa river
and is intersected by the Coosa river. The surface is
hilly and mostly covered with forest. Pop. (1890)
21,732. Cap. Wetumpka.

Elmore, in Idaho, a S. W. cen. co.; area, 3,000 sq. m.
The eastern part is mountainous; the western part
comprises a portion of Snake River valley. Eod. fertile.

Misserals. Gold, silver, lead, antimony, copper and iron.
Cap. Mountain Home. Pop. (1890) 1,870.

Elocutionist, a. One who teaches elecution or
gives elecutionary readings or recitations.

El Re'mo, in Oklahoma, a city, capital of Canadian co,
on C., R. I. & P. and C., O. & G. B.Ra., 36 m. W. by N.
of Oklahoma city. Pop. (1897) about 6,500.

El'som. Louis Charles, journalist, born in Boston, Mass.,
April 17, 1848; edited the Vox Humssa, and was on the
staff of the Boston Advertiser as musical critic, and one
of the editorial staff of the Boston Mescol Herald. He

ETSORS. LOUIS CHARLES, JOURDAINS, DOTN IN BOSCON, MASS. April 17, 1848; edited the Vox Humana, and was on the staff of the Boston Advertiser as musical critic, and one of the editorial staff of the Boston Musical Herald. He has written a number of songs, and a History of Music in Popular Form; Curiosities of Music, &c.

El'WOOd, in Indiana, a post-town of Madison co., 44 miles S.K. of Loganaport, on Lake Erie & Western, and Pitta, Cin, Chic. & St. L. R. Rs.; has saw- and stave-mills, glass, tin, and flax factories, and many others; also does an extensive shipping business in grain and live stock. Pop. (1897) about 12,(80).

E'ly, RICHARD THEODORR, Ph.D., LL.D., educator and political economist, born at Ripley, N. Y., April 13, 1834; student of the State Normal School, Fredonia, N. Y., and of Dartmouth and Columbia Colleges. The University of Heidelberg awarded him the degree of Ph.D.; has held the chairs of Political Economy in Johns Hopkins University and the University of Wisconsin, besides other important positions. He has published the following works, which have been widely read: French and German Socialism; Tuzzation in American States and Citics; Problems of To-day; Labor Morement in America; Political Economy, &c.

E'ly, in Mismesola, a post-office of St. Louis co., 23 miles E. of Tower; is the terminus of Duluth & Iron Range R. R.; has a number of mines, and ships, considerable quantities of iron-ore. Pop. (1885) 2,260.

El'zevelr, a. Pertaining to the Elzevirs or to their editions of the classics, &c.

Elsevelr, s. One of the books printed by the Elzevirs.

(Prist.) A variety of type.

Embalim'ing, Recent Methods of. The art of preserving the body after death. For this art, as practiced in ancient times, see Embalming, Section I. It is proposed here to speak of the art as at preent practiced for temporary or permanent purposes. The

It is proposed here to speak of the art as at present It is proposed here to speak of the art as at present practiced for temporary or permanent purposes. The art of £ was probably never wholly lost in Europe; great success was attained by De Blis, Swammerdown, Clauderus, Gooch, Bell, and others; and Penicher describes a mode of embalming by incisions all over the body. Ruysch and William Hunter injected essential oils into the body, opening the arteries and forcing the solution into them, while the blood flowed out from an opened velt, the injection being continued until the £ liquid escaped from the vein. Boudet embalmed the body with camphor, balsam of Peru, Jew's pitch, tan and salt. Chaussier discovered the preservative power of corrosive sublimate, which makes animal matter rigid

in consistency and grayish in color, though the dessitation prevents the features from retaining their natural appearance. In 1834, Gannal discovered the presertive power of a mixture of equal parts of accetate and chloride of alumina or of sulphate of alumina; Tranchinithat of areenic; Babington and Bees, in 1839, that of pyroxitic spirits; while chloride of zinc was later introduced as a preservative antiseptic. In modern Ethe purpose is not to render the effect permanent, but to preserve the natural color and share until the time for purpose is not to render the effect permanent, but to preserve the natural color and shape until the time for funeral, or for transportation of the body home if at a distance. The permanence of the result depends spon the thoroughness with which the work is done and the character of the antiseptics used. A body wid embalmed in this manner will retain its natural appearance for worth if each other transfer weather the standard of the standard appearance for worth if each other transfer will retain its natural appearance. ance for months if sealed in an air-tight coffin, the ance for months if sealed in an air-tight coffin, the eyes alone shrinking—unless specially preserved. Such a body, if slowly dried, would far surpass an Egyptian nummy in naturalness. The substances generally employed are arsenic and the chlorides of mercury and zinc. Salt, carbolic, salicylic and benzoic ackia, and some of the essential oils are also frequently used. The solution is made in water, with glycerin and alcohol, 8 or 10 per cent. of the antiseptics being dissolved. This solution is injected into the blood vessels in the maner described and then into the thorax and the advanced. or 10 per cent. of the antiseptics being dissolved. This solution is injected into the blood vessels in the manner described, and then into the thorax and the abdominal cavity, from 2 to 4 quarts of the solution being necessary for an adult. This injection soon destroys all putrefactive odor, the antiseptics destroying the ferments and putting an end to the process of putrefaction. E has become a very common process in the U. S., being practiced by numerous undertakers, while there are large establishments for providing the necessary implements and materials. Undertakers usually employ proprietary E liquids of whose composition they know very little; though those of these liquids which have been analyzed were found to contain the antiseptor named above, viz.: arsenic and mercuric and zinc chloride.—The preservation of animal specimens, as practiced to largely in museums, may be classed as a method of E., and is most usually performed by placing them in a vessel filled with alcohol, in which, if properly cared for, their permanence seems assured. Many specimes are also preserved by being saturated with alcohol or some of the other antiseptics mentioned, and then dried and varnished. Such dry specimens are very permanent, surpressing the Eventium numerates of invested of the content of the co are also preserved by being saturated with alcohol or some of the other antiseptics mentioned, and then dried and varnished. Such dry specimens are very permanent, surpassing the Egyptian nummies in moist climate, like that of England. Another method, largely pursued, is to displace the water of the specimen by alcohol, carbolle acid, or other autiseptic liquid; then by the ass of turpentine, oil of cloves, etc.; and finally filling and enclosing it with Canada balsam, dammar, shellac, or other transparent gum, within which it lies like a fly in amber. Such a process, if applied to a human body, would be far superior, the body being indestructible if properly protected from injury. Of late years important progress has been made in the art of preparing and preserving museum specimens, and the most delicate occan animals, hitherto incapable of preservation, and represented in museums only by glass models, are now kent in their natural appearance. Methods of instantaneous killing, while the animal presents its life-like condition, are employed, It is then placed in alcohol or other preserving liquid, so that now we are able for the first time to see in museums the delicate corals, hydroxon and other creatures of fragile consistency in their natural form and state.

and other creatures of fragile consistency in their natural form and state.

Emboas'ing. (Mossy!) The producing of a raised pattern, by blows or peressure, on sheet metal, leather, paper, or other yielding material. An example of E by hand is seen in the operation of beating up, bossing, or repossed, in which a vase, dish, or other article of sheet metal is decorated in relief by beating up the figures from an inner or under side. A similar result may be produced by the use of a die and counter-die, worked in a screw press, or by a fulling weight; but this is usually known as stamping. Writing and card papers are embossed by a steel die, the counter-die being of leather or millboard faced with gutta-percha. In this case the paper is moistened and a press used. In the E of leather for book covers, or other purposes, brass dies and millboard counter-dies are used, pressure being obtained from a lever or screw press. If the ornament is to be in high relief, molds, or reverse of wood or metal are required, or separate ornaments of wood or papier-mache, fixed to a board, may be used. The leather is thoroughly moistened, and in its soft state is pressed into the molds by suitable tools, or spread over the fixed ornaments and worked into all their cavities with the aid of the fingers and a pointed tool. Paper pulp and similar multiproce are used to fill spread over the fixed ornaments and worked into all their cavities with the aid of the fingers and a pointed tool. Paper pulp and similar suletances are used to fill the hollows of the more deeply relieved portions. The imitations of embossed leather, now used for wall de-oration, are made of canvass, paper, leather, &c., and occasionally even so fine a substance as satin. Embossed occasionally even so fine a substance as satin. Embossed linen canvass is made by passing the dampened canvass over a metal roller heated with steam and having the pattern engraved or cut on it in intaglio. Pade or or unless press the canvass into the indentations as the rollers revolve. By means of additional rollers, paper is pasted on the back of the web, which in consequence wall papers are embossed in a somewhat similar manner, though flat instead of circular molds are employed. Very strong paper is used, which is stiffened with coatings of oil and lacquer. These embossed substances for wall decoration are usually colored and gilt. For the £ of calico and other textile fabrics, deeply engraved metal cylinders, fitted into calender frames, are employed. The counter roller has a covering of felt, which yields as the fabric passes over the die cylinder, pressing if

into the bollows of the pattern. Sometimes two cylinders, engraved as die and counter-die, are used. Wood may be embossed when thoroughly saturated with water and pressed with a red-hot iron mold, it being usually necessary to re-wet it and re-heat the mold several times. In a method of embossing wood invented about 1830, the design is first drawn on the surface, and all the parts to be in relief are depressed with a liunt tool. The wood is now planed down to the level of those depressed portions. It is then steeped in water, when the portions swell and rise, leaving an embossed pattern which may be fluished by the carver. In the £ of wood veneers, an American process, metal dies are used. The word "embossing" is also applied to ornamental patterns etched on plate glass, for the panels of lobby doors, etc. It is likewise applied to embroidery on which the pattern is raised above the surface of the material. of the material.

of the material.

Embryograph, a. An instrument for drawing outlines of embryo. &c.

Embryol'ogy, a. (Biol.) That department of biology which is concerned with the development of the individual organism, as contrasted with philogeny, which is concerned with the development of the race. It is a series of studies in the anatomy and physiology of the organism, from its first appearance as a germinal cell to that point at which it takes on the characters of the solut

series of studies in the anatomy and physiology of the organism, from its first appearance as a germinal cell to that point at which it takes on the characters of the shult.

E in the past was largely devoted to observations on the development of the chick, which was noted more than 2,000 years ago in Greece, and continued to be closely watched in modern times until the recent expansion of the science led to the study of the embryos of every form of animal and plant. A fanciful doctrine of the origin of the living form long prevailed, continuing even into the 19th century, although discovered facts had long before proved its inaccuracy; this was that the germ of a living being, whether egg or seed, was an exact copy, in miniature, of the adult; that the complete being, with all its organs and tissues, lay in the germ, and needed only growth or unfoldment to yield the sdult. "There is no becoming," said 'Haller; "no part of the body is made from another; all are created at one." But this was not all. An extension of the theory held that the germ was more than a minature copy of the adult being; that it also included the germs of all future generations, one within another, in ever smaller form, like a juggler's nest of boxec carried to infinity. A controversy arose as to which element of generation, the male or the female, contained this intricate germ. One side claimed that the ovum was the sore important and needed only to be energized by the spermatozoin. The other side claimed that the male element carried the germ, to which the ovum only supplied nutriment. As the theory was one which could not be disproved without study of the facts, it long held its own, though Harvey, as early as 1651, advanced a different proposition. He declared (1) that every form arises from an ovum, and (2) that the organs arise by new formation and not by mere expansion from microscopic dimensions. Wolf, in 1759, reasserted this, and declared that the material of the germ is not structureless, and that the formation of the organs to



Fig. 2866.—ORGANISMS.

begin in any of the higher organisms until the female element has combined with the male element, or sper-matozoön. These sex-cells are cellular units of the parent organisms, specialized to fit the purpose for which they are intended, and set free that they may serve as the beginnings of new organisms. The body cells take on special forms to serve their purposes in

nerve, muscle and other tissues; but the germ cells are believed to retain the generalized characters of the original parent cell, and to be thus fitted to reproduce a similar organism. The Protozoa, or single-celled animals, each behaves like an ovum, and is capable of reproduction without tertilization. This is also the animals, each behaves like an ovum, and is capable of reproduction without tertilization. This is also the case with the germ cells of many of the lower many-celled organisms. But there is reason to believe that reproduction from the ovum alone can in no case go on indefinitely, but that eventually there must be a union of opposite sex-cells to reinvigorate the race. The ovum coes not differ in character from other animal cells. It is made up of protoplasm, the highest organic chemical compound; and recent microscopic research



Fig. 2867.—RELATION OF YOLK TO DIVISION OF OVUM. (Diagram:

- little and diffuse yolk, more yolk at lower pole, central yolk, much yolk.
- A', total equal division, B', total unequal division. C', peripheral division. D', partial division.

proves that it is not uniform in structure, but that its substance is arranged as a net-work of fine fibrils, in whose interstices lies a fluid or semi-fluid material. Within the ovum is found a smaller cellular mass, called the nucleus, made up, like it, of netted fibrils and interstitial material. Research has shown that the nucleus plays a highly important part in the development of the embryo, in which it seems to be the active agent, and the seat of the hereditary characters; the outer cell being made up of less important or vitalized constituents, and serving mainly as a reservoir of nutriment for the new germ in its earliest stage of development. The ovum may be found in various parts of the structure of the lower animals, being simply a well-fed cell of the general organism; but in all higher

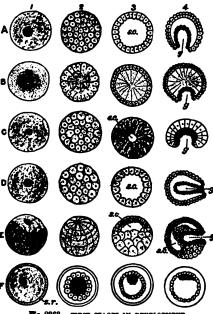


Fig. 2868.—FIRST STAGES IN DEVELOPMENT.

Pag. 2000.—THEST STAGES IN DEVELOPMENT.

1, fertilized orum: 2, ball of cells; 8, same, still more divided, or in section; 4, gastrula (except in F); A, sponge, coral, earthworm, or starfash; B, crawfash, or other orthopod; C, river snail, or other molluse; D, lancelet, tunicate, &c.; E, frog, orother amphilbain; F, rabbit, or other mammal; s. c., segmentation cavity; g, gastrula invagination; s. r., rona radiata, or porous envelope. Dark-shaded cells are endoderm, lighter are ectoderm; dots are yolk granules.

forms it is restricted to a distinct region or a definite organ (the ovary, where special facilities for its nutrition and growth reside. Its first stage of existence is merely one of nutrition and growth. This often takes place at the expense of neighboring cells, a single ovum being the successful survivor of a group. In other cases the ova are fed from the vascular fluid of the animal, or from special glands of the ovary. The nutriment thus obtained and laid up for future use is known as the yolk. This varies considerably in position and quantity, being very small and diffused through the cell in mammalian ova: larger in quantity, and sinking to the malian ova; larger in quantity, and sinking to the bottom, as in frog ova; or very large in amount, as in birds' eggs. In insects and crustaceans there is a central accummulation. Some form of membrane usually surrounds the ovum, often provided with a special aperture, the micropyle, for the entrance of the spermatozoon. Hard shells, like those of birds' eggs, must be formed after fertilization has taken place.

matozoon. Hard anella, like those or birds' eggs, must be formed after fertilization has taken place.

The Spermatozon.—In the Protozoa there is rarely any apparent difference between male and female cells, though sometimes a small active organism unites with a larger and more sluggish one. As we ascend higher in the animal kingdom the distinction becomes strongly marked, the spermatozoin being one of the smallest and most active of cells, while the ovum is one of the smallest and most passive. The former is greatly lacking in the nutritive material with which the latter is so largely provided. In most animals the spermatozoin presents three parts, the "head," which is almost made up of the nucleus; the "tail," which resembles the cilis of monads; and a middle portion connecting head and tail. This tail portion is capable of active, whip-like motion, and carries the head to the locality of the ovum, there to enter union. Germ and sperm cell are alike in origin, but differ in development to adapt them to the unlike parts they have to play in the organic process.—Makuration of the Ovum.—When the egg cell has attained its full growth, it is found to bud off tiny portions, minute cells, which are known as polar globules. This takes place in advance of fertilization; the buds come to nothing, and the meaning of the process is a mystery. It is found that a spindle-like network, as in all cell division, formed within the cell, and that each polar globule is a pole of one such spindle, and therefore a true cell, though very minute as compared with the remaining cell. Various theories have been advanced to explain this peculiar process. Some writers hold that the ovum has both male and female conditions, and that in this way it gets rid of its male element and becomes predominantly female. Others maintain that it is the survival of an ancient habit of the cell, which the male cell still retains in its division into spermatozoa, the polar globules being rudimentary or abortive cells. THE SPERMATOZOGN.-In the Protozon there is rarely

survival of an ancient habit of the cell, which the male cell still retains in its division into spermatozoa, the polar globules being rudimentary or abortive cells. Weismann maintains that in this way the cell gets rid fhalf of its germ substance, to be replaced by an equal quantity from the spermatozoön. Evidently some uscless or injurious matter is got rid of, though just what is not likely soon to be known.

Fertilization. By extended investigation, much has been learned in regard to the union of spermatozoön with the ovum. The former seeks the latter, moving actively toward it by the aid of its lash-like tail, and as if through some attractive influence, and penetrating through its wall to the interior. The following facts have been learned through recent investigation: Normally, only one male element unites with the ovum, though a considerable number may assail it. A sudden though a considerable number may assail it. A sudden

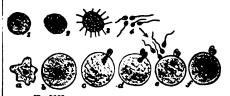


Fig. 2869.—MATURATION AND FERTILIZATION.

1-6, division of a mother-aperm-cell or primitive-male-cell into a divisible ball of spermanozoa; a, amedold young ovum; b, later stage; c, budding of first polar cell; d, of a second e, apermatozoa around ovum; f, male and female nuclei about to fuse on completion of fertilization.

change takes place in the membrane after the entrance of one sperm, which renders it impervious to others. Occasionally more than one gains entrance, but such an occurrence is abnormal and gives rise to an abnormal development. The union between the two cells is a very intricate one. The male nucleus, which constitutes nearly the whole head of the spermatozoön, seeks the nucleus of the ovum, they being drawn together as if by attraction. On meeting they unite so that the two form a single new nucleus. Yet close as is the union, neither of the elements loses its powers; and in the result the hereditary characteristics of both parents can be traced. These are the facts that have been observed; what they all mean is an unsolved problem. Some think that the sperm acts as a kind of ferment, stimulating action in the ovum. Weismann maintains that the sperm simply replaces the germ substance lost in the extrusion of the second polar globule, and that there is no essential characteristic peculiar to each sex. What we actually know is that the new nucleus is made up by half of male and half of female elements, and that in these halves the hereditary characteristics persist; and we have further good reason to believe that the activity, chemical or molecular, of the sperm cell overnomes the passiveness of the egg cell and atimulates it to subsequent division. Fertilization seems a necessity throughout the whole series of living forms, even in those low creatures in which the ovum has for a time the power of self-development; the mingling of opposite sex elements, different in constitution and perhaps in chemical organization, being seemingly revention of too great uniformity in condition and the loss of vital strength in consequence.

Segmantation. The next process is the semmentation or division of the egg. Soon after fertilization the new-formed nucleus opens into a nuclear spindle and goes through the process of self-division (for the

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details of which see article Cell.). In this way the cell divides in two connected halves, and these into quarters, the division going on until a group of new small cells is produced. The method of division differs in accordance with difference in character of egg formation. Where there is little nutriment provided, the whole ovum divides, now vertically and again horizontally, segmentation continuing until a small sphere of cells of closely equal size is formed. This is the case with mammalian ova, and those of the sponge and starfish. In the ovum of the frog, segmentation is still total, but it is unequal, the cells of the upper half dividing more rapidly and becoming smaller than those of the lower half, where most of the yolk is gathered. In birds, reptiles, and many fishes there is a large quantity of yolk, and the division is partial, being confined to a small spot of material on the surface of the yolk. In which the yolk accumulates in the center of the ovum and is surrounded by a more active formative protoplasm, the latter divides and forms a sphere of cells around to yolk in which little division takes place. Mercela and is surrounced by a more active iormative protopasm, the latter divides and forms a sphere of cells around the yolk, in which little division takes place.—Morula and Gastrula. Segmentation, by which ever method it takes place, yields a more or less spherical mass of cells;

which in some instances leaves a cavity in its interior, forming a hollow sphere, called the blastosphere, and called the blastosphere, and in other instances presents a largely solid mass or ball of cells, of a mulberry-like appearance, whence it has been named the Morula. In the case of partial division, like that of the bird's egg, town the segmented material bethe segmented material be



SECTION OF HOL LOW BALL OF CELLS, OR BLASTOPHERE.

the segmented material becomes a disk of cells lying on a portion of the surface of the yolk. This gradually spreads at its edges, and in time envelopes the whole yolk. Such a disk-like area is known as the blastoderm. From the morula is formed a sac-like body named the gastrula. In the simple case of a hollow ball of cells this is produced by invagination, as when one-half of a rubber ball is pressed into the other to form a cup, or a glove finger is doubled back into itself. One hemisphere sinks into and becomes surrounded by the other, forming the interior and the latter the exterior of a sack composed of two layers of cells—the original sphere having of cells—the original sphere having but a single layer. In other cases the morula is so composed that this simple form of invagination is im-



GASTRULA

simple form of invarination is impossible, but by some process or other a gastrula, or two-layered arrangement of the cells, is produced. In the case of most Hydrozoa this result is produced by an internal differentiation of the cells, known as delumination.—The Germinal Layers. The cells which are thus produced do not remain alike for a long time. Differences appear even in the morula, and become marked in the gastrula, the cells of the interior being particularly different from those of the exterior. They are under different conditions and have different duties to perform, and vary in shape and size accordingly. These two layers have received and have different duties to perform, and vary in shape and size accordingly. These two layers have received the names of ectoderm and endoderm, for the outer and inner respectively. The formation of a two-layered form appears to be universal in animals. In sponges and Colenterates the process stops at this stage; and some of the simpler sponges are little or nothing more than an invaginated gastrula, they reaching their limit of development at this stage, that of the primitive stomach. But in all the higher forms a third intermediate layer of cells appears, which is known as the mesoderm. It But in all the higher forms a third intermediate layer of cells appears, which is known as the mesoderm. It arises in different ways, its origin not being very easy to determine. One common mode is said to be by the formation of two sacks in the material of the inner layer, which grow outward, one on each side, insimuating themselves between the originally body layers and forming a middle layer of two divisions, the body thus gaining four germinal layers. The cavities of the sacks form the future body-cavities of the animal. The outer portion of the mesoderm lines the external body wall, and in it the muscles and various other organs are formed. The inner clings to the internal layer and forms the visceral portion.

Guowrn or Organs. The development of the embryo

forms the visceral portion.

Growth of Organs. The development of the embryoup to this point has been simple. In the later development of the body each germinal layer plays an active part. The ectoderm gives rise to the outer skin and its appendages, the external skeleton where present, the superficial glands, the nervous system, &c. From the endoderm comes the visceral membranes, and their outgrowths, such as the lungs and various internal plands. In vertebrate animals it also gives rise to an important embryo structure, the notochord, which always precedes the development of the backbone. All the other organs of the body arise from the mesoderm, including the internal skin, the muscles, the internal skeleton, the connective tissue, the lining of the body cavities, and the blood and its containing walls. The reproductive organs also usually arise in connection with the mesoderm. Some of the organs, however, have a compound origin. Thus the eye is an outgrowth from the brain, and therefore ectoderm in origin; but some of its structural parts arise from the mesoderm.—

\*\*Mammalian\*\* development\*\*. The phenomena attending the

embryo development of the lower forms differ in many particulars, as the gastrula gradually takes on the special characters of the order and species, the general characteristics first appearing, and gradually the more special ones, ending with those of the race or species, and the individual. In the development of a mammal and the individual. In the development of a mammal certain general steps are passed through in all cases; then less general ones appear; and what might have become any mammal, now takes on characteristics special to a more restricted class, the process gradually narrowing toward the special creature destined to appear. The germinal layers, once differentiated, begin quickly to display inequality of growth and specialization, yielding stage after stage of progress towards the final form. The embryonic area of what is to become a mammal, when looked upon from the surface, presents a somewhat clear central field, surrounded by an opaque peripheral section. From the caudal pole of the area peripheral section. From the caudal pole of the area there extends forward there extends forward the section of the area there extends forward the section of the area than the section of the area than the section of periphera section. From the catasa pole of the area there extends forward through the clear space, or area pollucide, a central opaque line, called the primitive streak. It is a temporary appearance, which forms no part of the embryo proper, though indicating where it is to form. The formation of the primitive streak is soon followed by that of two diverging folds, embracing the anterior part of the primitive streak. These ridges form the medullary folds, and the depression between them the medullary groose. At the bottom of the latter a rod-like layer of cells, the beginning of the motochord, soon forms. This marks out the line of the vertebral column, and the axis of the embryonic structure. Over the groove the folds in time unite, a canal or tube being formed, from which arises the nervous tract of the spine and brain. On either side segmental cleavages appear in the tissue, called the somites; temporary conditions, marking the places of future vertebra: While these changes are taking place without, others are occurring within, including the formation of the primitive body cavity, by the separation of the mesodermic layers, and the formation of folds from which the body walls and the visceral tubes are afterward produced. These are the general features of the early development of mammalian embryos. There are others relating to the development of succial parts, such as the re extends forward through the clear space, or are weide, a central opaque line, called the primitive streak produced. These are the general features of the early development of manmalian embryos. There are others relating to the development of special parts, such as the appearance of the gills—which precede the lungs of the higher forms—the outgrowth of the tail, the formation from the cerebral part of the neural tube of the rudimentary brain, and the outgrowth of the various temporary appendages of viviparous animals requisite to nutrition within the womb,—the amnion, the chorion, and their accommanying structures. What energies and internal influences are at work in all these stages of development is not easy to trace. Evidently succial development is not easy to trace. Evidently special

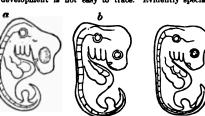


Fig. 2872.—EMBRY08. Comparing: a, fowl; b, dog; c, man.

conditions of structure and energy exist in the germinal cell of every species of animal and plant which govern and control its development, for which only nutrition and suitable protection are necessary, every step of the progress being governed from within, not only those general ones which mark out the broad features of organisms in general, but those which give rise to special organs, to family features, and to individual traits. These conditions must be very complex, minute as is the germ, and capable, by the aid of their inherent energies, and by directing the flow of each particle of as is the germ, and capanie, by the and of their innerent energies, and by directing the flow of each particle of nutriment, and its deposition in the requisite place, to carry out the plan of structure; while the brain organism must develop in such a manner as to provide organism must develop in such a manner as to provide conditions for the subsequent traits of mental disposition, of which the foundations are hereditarily laid. Consideration of this leads to questions which it is at present impossible to solve, and with this brief statement of their character we may close.

Emb'bryoscope, n. An instrument used for observing the development of embryos.

Emerson'isan, a. Pertaining to Ralph Waldo Emerson or his writings; honce transcendental occupier.

Emersa, a A giazier's diamond.

Emerson'san, a. Pertaining to Ralph Waldo Emerson or his writings; hence, trauscendental, oracular, terse or forcible in style.

Emerson's and the style.

Emerson's and the style.

Emerson's and the style area, 1723 sq. m. Burfacs, mountainous; soil, fertile. Minerals of various kinds are mined. Pop. (185) 4,390. Cup. Castle Dale.

Emic'tory, a. (Path.) Diuretic.

—a. A medicine that increases the flow of urine.

Eme'in Pasha' (Edward Schnitzler), born at Oppein, Silesia, March 28, 1840; graduated at Berlin University (1854), and soon after entered the service of Turkev and on the staff of Hakki Pasha traveled through Asiatic Turkey. In 1876 he entered the service of the Kheilve of Egypt, adopting the name of Emin, accompanied Gen. Gordon to the Soudan, and was appointed by him governor of the equatorial province, receiving (1879) the title of Bey, and (1887) that of Pasha. The successful rebellion under the Mahdi left him isolated from Egypt until 1889, when he was rescued by Stanley,

who had travelled for this purpose from the Congo to the Albert Nyanza. Journeying to Zanzibar, Emin in 1890 entered the German service, and set out on an exploring expedition in the region between Lakes Victoria Nyanza and Tanganyika. In 1892 he started with a band of Memyennas for the Congo, and on Oct. 20, when near his destination, he was murdered by the leader of the band. Emin was one of the largest contributors to zoölogical and anthropological knowledge of Central Africa, his collections in natural history being large and valuable.

or tentral Arica, ins conections in natural instory to ing large and valuable.

Emm'moms, in North Dakota, a S. co.; area, 1,584 sq. m. Surface, undulating; soil, fertile and well watered by Beaver creek and amaller streams. Osp. Williamsport. Pop. (1897) about 3,000.

Emm'ory, William Herssley, soldier, born in Maryland, September 19, 1811; graduated from West Point (1831) as lieutenant of artillery; served at various points on the Atlantic coast, and later under Kearney in California and Mexico, reaching the rank of lieutenant-colonel in 1857; resigned in 1861, but was made brigadier-general of volunteers in 1802; served under Banks, in Louisiana, the following year, and in 1864 commanded a corps, as brevet major-general, doing very effective work in the Shenandoah Valley; was commander of the de; artment of West Virginia (1865-66), of Washington (1>69-71) and of the Gulf'(1871-75); retired in 1876, with the rank of brigadier-general, U.S.A., and died at Washington, Dec. 1, 1887.

Emmo'tional. c. Pertaining to or characterized by emotion; liable to emotion; excitable.

emotion; liable to emotion; excitable.

Emo'tionalism., a. The quality or state of being emotional, or liable to emotion.

Emottive, a. Tending to excite emotion; emotional. Empathe'ma, s. [Gr. empathes.] (Puthol.) Uncontrollable passion induced by disease.



Fig. 2873.—EMPEROR MOTH. Showing caterpillar, pupa, cocoon and im-

Em'peror, s. (Enlow.) The purple emperor, a but-terfly (Apatera iris).—One of various silkworm moths. (Zoil.) A boa of Central America.

Emperor-goose, s. (Ornith.) A large goose of Alaska (Philacte canagica). The body is bluish gray, with black and white lars; the head mostly white.

Em'pery, s. Empire, sovereiguty, dominion, power.

—An empire, the country under the dominion of a

prince.

Emphrax'is, n. [Gr.] (Pathol.) Unnatural obstruction in some passage or cavity of the lasty.

Em'pire City, in Kansaa, a city of Cherokee co., 10 n. from Columbus. Pop. (1895) 838.

Emplec'ton, v. [Gr. emplectos, interwoven.] A kind of masonry having a squared stone face; in the Greek it is solid throughout, and in the Roman has a filling of rubble.

of rubble.

Employee', n. [Fr. employé.] One who is employed or engaged in the service of another.

Empo'ria, in Virginia, a post-town, cap. of Greenville co., 22 m. from Lawrenceville, on Atl. & Danv. and Atl. Coast Line R. Rs.; has planing mill and veneering factory. Pop. (1897) 1,840.

Em'press-cloth, n. (Fabrica.) A dress material of wool, or of woolen weft and cotton warp, which resembles merino, but is not twilled.

Emul'siom, n. (Pharm.) The milky extract of bitter almonds, or a substance contained in it, which acts as a ferment to decompuse certain gluosider.

almonds, or a substance contained in it, which acts as a ferment to decompose certain glucosides.

Enam'elled From. (Mass/.) A method of successfully applying a vitreous surface to iron has been sought for since early in the 19th century, and various processes for this purpose have been patented. The chief difficulty in doing so arises from the tendency of the iron to oxidize before a sufficient temperature is reached to fuse the enamel, and also to become brittle from a combination of its oxide with the silica of the enamel. This action is superficial and is more into ename. This action is superficial, and is more injur-ious to thin than to thick iron; so that heavy cast-iron vessels can be enamelled more easily than those made of sheet iron. The enamels used in coating iron con-sist of a mixture of silica and borax with such basic substances as sods, oxide of tin, oxide of lead, alumins, &c. Lead, however, is not safe to use in vessels intended for culinary purposes. A great variety of articles are now cheaply produced in enamelled iron, such as grate-fronts, clock-dials, name-plates, sign-boards, panels, &c., many of them beautifully decorated in colors. Corrugated roofing is also enamelled. The effect of heat is to cause a greater expansion of the iron than of the enamel, so that the latter cracks and peels off. Acids also find their way through the best enamel, and appreading between it and the iron, break the connection between them. If, for instance, an enamelled vessel is spreading between it and the iron, break the connection between them. If, for instance, an enamelled vessel is filled with a solution of sulphate of copper, the acid makes its way through minute pores to the iron, depositing at all such spots little beads of metallic copper, which grow till large enough to be plainly seen. This is the severest test to which enamelled iron are he relief to the severest test of the severest test to which enamelled iron

seen. This is the severest test to which enamelled iron can be subjected.

Emas'eemt, a. Coning into being; nascent.

Emate, a. [Lat. enatus.] Growing out.—Related on the mother's side.

Emethe'rial, a. Used in, or peculiar to, a particular country; native, common, demotic; used especially of the writing of the ancient Egyptian language that followed the hieroglyphic.

Em'chyman, n. [Gr.] (Biol.) The formative juice from which the tissues, especially the cellular tissues, are formed.

Em'eimal, in Texas, a post-town of La Salle co. Por

(1890) 552.

Emeratite, m. [Gr. Entrates.] (Ch. His.) One of a sect in the early Church that abstained from marriage, wine and animal food, otherwise called Continent.

Emerye'lical, m. An encyclical letter, especially one from the Pope to all the bishops.

Emdeav'erer, m. In a specific sense, a member of the Society of Christian Endeavor (q. v.).

Emd'emam, m. One of the two men at the ends of a company of minstrels on the stage, who keep up the comic dialogue.

Emdocardiac, a. Pertaining to the endocardium.

Emdocardium.

Emdocardium.

Endocardium.

Endocardium.

To hypnotize.

endocardium.

Endormi', v. a. [Fr. endormir.] To hypnotize.

En'ergy. (Physics.) The power of doing work posseemed by any material system. E. inheres in matter.

It has no manifestation separate from matter, which is
therefore often defined as the vehicle of E. As a Emérgy. (Physics.) The power of doing work posessed by any material system. E inheres in matter. It has no manifestation separate from matter, which is therefore often defined as the vehicle of E. As a common illustration of E may be given that of a builet projected upward into the air. It starts with a large supply of E, or power of doing work in overcoming gravity and friction. As it ascends its power of overcoming resistance lessens, and finally vanishes, the buillet coming momentarily to rest at its highest attainable elevation. But it has not really lost the power of doing work. It manifests this power in its descent, gaining speed as it falls, and finally reaching the earth with its littial speed and power of doing work, except to the extent that it is checked in its descent by the resistance of the air. Thus, when at its highest point and at rest, the bullet must have possessed its full sum of E. This fact has led to the theory that there are two forms or types of E, esseryy of motion and energy of position; or, as usually entitled, kinetic energy and potential energy. Nature presents us with numerous examples of both types. A current of water possesses kinetic E, a stone resting on the brow of a cliff, and capable of falling is moved, possesses potential E. An oscillation pendulum possesses kinetic E when in the center of its awing, potential E in its resting positions at the extremities of its swing. A bent spring possesses potential E. When released and permitted to act, it manifests kinetic E.—
Heat energy. Heat is another form of E. It is now known that heat-effects result from motion of the particles or molecules of the heated body, and that the greater the manifestation of heat the greater the rapidity of this motion. This motion is invisible, from the extreme minuteness of the particles moved; but it can readily be caused to change its form from molecular to mass motion and thus become evident to the senses. Thus, in a steam engine the invisible motion of the particles of the burning fuel and o form. Another form of E. is that of chemical separation. Carbon and oxygen, for instance, exercise an attraction for each other, which may be designated as potential E. while they are separated, but kinetic E when they rush together and combine in response to this attractive force. In this case, as in many others, the E. exercised is set free as heat, which in the case of chemical work and the formed laterative traitible may be the many others. as set free as neal, which in the case of chemical work can be readily transformed into visible motion, as in the motion of machinery caused by chemical process of the burning of coal, or the explosive effect due to the burn-ing of gunpowder.—Energy the effect of motion. In

nearly all the instances adduced the E is evidently the force exerted by matter in motion, whether this motion be the visible one of masses, the invisible one of molecules or atoms, or the exceedingly delicate and swift motions of the ether. Such is the case in all instances of kinetic E., the motion here being either visible in itself, or easily convertible from its invisible into a visible itself, or easily convertible from its invisible into a visible form. This is not evidently the case in potential E, where the force engaged seems to sink back into the body concerned and to take on some other form which can readily be re-converted into motion. This is the existing theory, but it seems an illogical one, and the writer of the present article long since ventured to dissent from it, basing his heretical views on the seeming impossibility of converting mo ion into any form of non-motion. It is generally acknowledged that E in the great sum of its ordinary manifestations is the effect of motion of matter, or momentum, and that in all its known conversions it is simply changed from one type of motion into another, as from heat into electricity and the reverse, constantly inhering in ether or ordinary matter. Indeed, we cannot imagine the existence of motion agrit from something moved, and it seems equally and the reverse, constantly inhering in either or ordinary matter. Indeed, we cannot imagine the existence of motion apart from something moved, and it seems equally impossible to conceive of motion as becoming something that is not motion. It is equally difficult to conceive of the transfer of E. from motion to any other vehicle of force, particularly in view of the fact that no such vehicle has ever been manifested to human apprehension, and none such is known to exist. How, then, are we to explain E. of position, if we maintain that all E. is a phenomenon of motion? This is not difficult to do in what is the most usual illustration of potential E.—that of a bullet shot upward, or some other body forcibly projected in a more or less vertical direction. As it ascends higher and higher its apparent motion decreases and finally vanishes when it reaches its highest point of ascent. Its E. vanishes in the same ratio; and if we affirm that the E. is transformed into some other form, we must affirm the same of the motion, since it also disappeared. Yet science tells us that motion cannot be destroyed, and that in every case of apparent disappearance it is simply transformed to some other mode of motion. In the instance in question, it is not difficult to decide what this new mode of motion is converted into heat through friction with the air and escapes outward. But the great disappearance of motion is due to the attraction of gravitation; and the mass motion lost through this cause cannot escape, but must remain within the moving body. In all probability it is simply converted into motion of molecules, or heat, the total motion being converted into heat when the upward movement ceases. The upward motion of such a tody is, in fact, a motion of molecules. Science teaches us that each molecule of a solid is an individual, which remains separate from all others, and possesses to own field of motion. When flung upward, the wood which remains separate from all others, and possesses its own field of motion. When flung upward, the body of molecules simply move upward in company. When this upward motion is checked, they simply begin to vibrate, revolve, or move in their special individual manner more rapidly. When the movement ends, all namer more rapidly. When the movement ends, all upward motion is converted into local motion or molecular vibration. During the descent of the body this molecular motion again becomes in part, motion of transfer t rough space. When the ground is reached much of it reappears as heat, caused by the check to mass motion. If this be really the transformation undergouse by the motion, the same may safely be affirmed of the E. It continues an effect of motion in matter, but becomes one of heat motion in the case of potential E., and is retransformed to one of mass motion in the case of kinetic E. This line of augument could readily be transferred to the other instances of variation from kinetic to potential energy, but the subject cannot be further considered here, and must be left to the reader.—Transformation of Energy. The transformation of E. from one form to another, of which some instances have been given, can be of which some instances have been given, can be affirmed of all forms of E., as that of heat, light, electricity, magnetism—all, indeed, except gravitation, which has as yet shown no correlation with the other forms, and which appears a fixed and unvarying attribute of matter—that is, the attractive force, not the E of motion resulting from its exercise. To what extent it may be due to motion no one is yet able to say. That it is an attribute of matter in itself, and not one confined to matter in motion, cannot be affirmed from any knowledge yet possessed by scientists. As regards the transformations of E, we may instance the familiar once of the change of electricity into heat, light, and magnetism, of the motion of impact into heat, of mass motion into molecular motious, and various other well known to scientists. As no motion disappears, so no E disappears, every seeming disappearance being simply a transformation.—Conservation of Energy. What has just been said is an asseveration of another characteristic of E, its fixity in quantity, and the impossibility of any loss or gain in the general sum. The total amount of E in any material system cannot be varied, provided this system neither parts with E to nor receives E from any external body. It may change in form, may vary from heat into light, electricity, &c., but its sum will remain the same; and if a degree of heat in such a system, after passing through other forms of E, could all be transformed back into heat and allowed to manifest itself outwardly, the final would be the same as the initial temperature.—Dissipation of Emergy. There is one tendency, however, which must be alluded to—that known as dissipation, but preferably called degradation of E.—that tendency which all forms of E show to become finally transformed into heat, and of which some instances have been given, can be affirmed of all forms of E., as that of heat, light, elec-

[SECTION II.]

that of heat to radiate outward and disappear in the depths of space. Through this E., the E. of the spheres of the universe is steadily being lost. The sun is pouring out heat at a predigious rate, with no indication, or at least very tittel indication, that this lost heat is being are similarly losing heat—their own and that received from the sun. The heat E. of the solar system is thus steadily flowing away, refrigeration is slowing approaching, and if the process continues, a series of chilled and dead worlds promise to succeed the living ones we now recognize. Many scientists hold that this process is necessarily continued and in some way a reverse process may set in and the lost vitality of the universe be restored—though no one can suggest just how this is to be done. The problem is one beyond the present powers of sun, and may be beyond stylutor power angesan. Nisam, April 16, 1811. Lived in the U. S. for many years, and after a number of exhibitions returned to private life at Mt. Airy, N. C., as Eng and Chang Bunker. They each married, and left a number of children. They each married, and left a number of children. They each married, and left a number of children. They seek married, and left a number of children. They seek may less that the sun of the sun o

moistened and the lines repeatedly inked until they are thickly covered. Then powdered asphalt or similar substance is dusted over the plate, which his heated until the asphalt is incorporated with the ink. The back and edges of the plate are varnished to protect them from the acid, and the plate is put in an acid bath, where the protected lines in relief. This process needs great skill, the etching and gentle heating being several times repeated, the latter to protect the lines from the acid by causing the protecting material to run down their sides, but not sufficient to fill their cavities. The larger white spaces are afterward generally cut deeper with machine drills, a process which is technically termed "routing." When the subject to be reproduced is one that cannot be transferred, as an engraving, pen and ink drawing, &c., photograph is brought into play, a process which has the advantage that the reproduction may be made of any size desired, while a drawing on transfer paper-must remain of the original size. The photograph is treated as for as a photo-lithograph, transferred to stone, and a re-transfer taken to put on zinc, when the work is completed in the manner described. These several transfers, however, injure the sharpness of the drawing, and a more direct method of putting the drawing on the zinc is preferable. The zinc, when the work is completed in the manner described. These several transfers, however, njure the sharpness of the drawing, and a more direct method of putting the drawing on the zinc is preferable. The method employed is based on an interesting fact discovered in 1826, by Nicéphore Niepce, a French chemist. He discovered that bitumen, under certain conditions, becomes sensitive to light, the parts acted upon by light growing insoluble, while the unaffected parts remain soluble. This discovery led to important results in the domain of illustration. Niepce exposed a sheet of metal, coated with bitumen which had been dissolved in oil of lavender, to the sun, under a drawing on glass. The parts unprotected by the lines of the drawing, and in consequence acted upon by the sun, became insoluble, while the protected purtious remained soluble. Oil of lavender was now used to wash away these roluble parts, and the metal below was etched by an acid, leaving a reproduction of the drawing in relief. Many modern processes are based on this principle, other substances having been found to replace bitumen which are quicker in action than the latter, and on the whole much more economical and generally satisfactory.—Zinc Etching. The method of reproducing line-work at present in vogue may be briefly described, as follows: A sheet of polished zinc is coated with a thin solution of albumen and bichromate of ammonium, being thus sensitized. When dry it is placed in a printing frame, in absolute contact with the negative (prepared in the usual way) of the subject to be reproduced. An exposure of from 30 seconds to 3 minutes in sunlight (or from 4 to 8 minutes in electric light) depending upon the clearness of the negative, is sufficient to make the print upon the sensitized zinc plate; the effect of exposure being to tharden the albumen coating on lines corresponding to of the subject to be reproduced. An exposure of from 30 seconds to 3 minutes in suellight (or from 4 to 8 minutes in electric light) depending upon the clearness of the negative, is sufficient to make the print upon the sensitized zinc plate; the effect of exposure being to harden the albumen coating on lines corresponding to the clear lines in the negative, leaving the remainder of the coating soluble. The next process is to cover the entire face of the plate with an even coating of transfer ink, using a lithographer's roller for this purpose. The plate is then put into a bath of water and its face gently rubbed with a soft rag or wad of cotton. The effect is to develop the picture, the ink washing away where the albumen has continued soluble, and remaining upon the lines that have been acted upon by the eight in the process of printing and are thus rendered insoluble in water. The plate is now dried by heat in an oven or over a gas jet, and dusted with a red, resinous powder, called dragon's blood. This powder adheres to the inked lines, and is dusted off the other portions of the plate, which is again heated, melting the powder, which then hardens and protects the lines of the picture from the action of the etching fluid. The plate next goes into the etching tub, remaining for a few minutes, under the eye of a skilled operator, until the first bite "is finished. It is then removed, dried and again powdered with dragon's blood, the powder being brushed the four ways of the plate (and each time re-heated), so as to protect all sides of every line and prevent the acid from eating under. The etching process is then re-heated, some classes of work requiring a third and fourth "bite" to reach perfection. When etched to the required depth, the plate is routed and tacked upon a block type-high. It is then ready for the press. This is the most rapid process yet devised, it being quite possible to make excellent reproductions within less than an hour's tinne—a feat frequently accomplished for newspaper libustration, b lines of the picture remaining in relief; it is then

mounted, with shellac, on a thin sinc plate and electro-typed, ready for use. The foregoing are only a few out of very many methods employed for "direct" reproduc-tion, each with some slight point of difference, but all founded on the single principle of employing a substance rendered insoluble by light.

Half-none Process.—The methods above described relate to line drawings or engravings. Where the pic-ture to be reproduced is a photograph from nature, or a

rendered insoluble by light.

HALF-TONE PROCESS.—The methods above described relate to line drawings or engravings. Where the picture to be reproduced is a photograph from nature, or a drawing made by washes of black and white, the problem becomes far more difficult and delicate. Intaglio plates made from such originals have for many years been successfully produced (see Photographus, below); but the production of relief blocks baffled all efforts until the problem was at length solved by Meisenbach. In a relief block every part which touches the paper prints black and every part which does not touch it remains white, a result which rendered it next to impossible to reproduce the gradations of tone from light to shade of such a photograph or drawing. What was sought for was some method of breaking up the gradations of shade into some sort of grain, stipple or line, which should be grouped closely in the darkest parts and open out as the shadows lessened in density, gradually merging into the open lights. Numbers of methods were devised and patented looking toward this result, but nothing astisfactory appeared until 1882, when Meisenbach, of Munich, patented a method on which all the most successful subsequent methods are based. This system, as now developed, may be briefly explained: Two glass plates are ruled in very fine parallel lines—ranging from 80 to 200 lines to the inch, but usually about 133; these are joined to make a double plate, the lines on one running at right angles to those on the other, thus forming a glass "screen" of fine mesh. In photographing the object to be reproduced, this screen is placed between the lens and a sensitized plate in the camera, at a very short distance from the latter. Much skill and judgment is required in the placing of plate, the lines on one running at right angles to those on the other, thus forming a glass "screen" of fine mesh. In photographing the object to be reproduced, this screen is placed between the lens and a sensitized plate in the camera, at a very short distance from the latter. Much skill and judgment is required in the placing of the screen, a variation of the hundredth of an inch in distance or angle sometimes producing a noticeable difference in the result. During exposure the operator frequently varies his diaphragms both in size and shape, and some very curious effects may be produced thereby. For example, a diaphragm having a long and narrow slot may convert the dots of the mesh into lines: an Leshaped aperture may produce a step-like line in place of the usual dotted effect, &c. Most of these special results, however, are devoid of practical usefulness and are produced chiefly to gratify the curiosity of experimenters. The negative is printed upon a plate of polished copper upon which a thin, sensitive coating of bichromated glue has been dried. In the printing, which is done in a manner similar to that described under zinc etching, the light passing through the clear portious of the negative hardens and renders insoluble in water the corresponding portions of the glue coating; while the parts protected by the dark lines of the negative remain soluble. The plate is developed in water and then heated, after which it is etched in a perchloride of iron bath. During this process the plate, in flue work, is frequently taken from the bath and portions of it stopped out with asphalt, the parts so treated being protected from further effects of the acid. This process preserves the lights and shades. In most cases the whole face of the print from a half-tone plate displays the fine-lined mesh of the screen, and may thus be distinguished from all other kinds of engravings and reproductions; but by the use of disphragms of peculiar shapes, as before stated, and by hand-finishing with a graver, this appearance may cesses here described have their limitations, but within these limits are progressing with marked rapidity, and as a means of cheaply and effectively illustrating books have added enormously to the scope of pictorial embelishment. They have been particularly employed and developed in the U.S., and to a large extent in France and Germany, but have had a much slower scceptance in Great Britain. As regards the Meisenbach, or half-tone process, its application of line drawings, from the necessarily shallow nature of the etching and the care with which the blocks require to be printed. Photographs reproduced on a small scale are apt to lose much in detail if the stipple be coarse, and to blur in printing if it be too fine. Subsequent manipulation of the plate is necessary to produce fully satisfactory effects.

Ther-color Process,—Much success has been attained, quite recently, in the fac-simile reproduction of

paintings and other color work in the original tints and paintings and other color work in the original tints and gradations of tone. This process, commonly termed "three-color work," is still in the experimental stage, the results not yet being as uniform as would be re-quired to insure its general employment. It is done by the half-tone method, and is based upon the theory that the nail-tone method, and is based upon the theory that there are but three primary colors—red, yellow, and blue—all other shades being combinations of these colors. It would follow, therefore, that the most gorgeous paint-ing, no matter how many or how varied its shades and tints, may be resolved into three ground colors and blendings of the same. This it is sought to accomplish by whoterproblem the rejution or other declared at line

It would follow, therefore, that the most gorgeous painting, no matter how many or how varied its shades and tints, may be resolved into three ground colous and blendings of the same. This it is sought to accomplish by photographing the painting or other colored subject through a series of screens which resist the passage of the red, the blue, and the yellow light-rays respectively. On one negative, for example, will be produced all the blue lines and surfaces; on another, the red; and on the third, the yellow. By the use of isochromatic plates, all the tone-values are preserved in the negatives. The latter are then printed on copper by the method described under Half-tone; and the plates produced are printed successively, one impression over another, the yellow first, then the red and blue. After the third impression, if the work has been successfully done, the printed sheet presents a fac-simile of the original design, every tint and color being reproduced by the blending of the three inks. This process has been used since about 1891, both in Europe and the U. S., and some very handsome results have been attained; but as above stated, the art has not yet reached perfection either in making the plates or printing therefrom, both of which operations require considerable and painstaking skill. It is believed, however, that complete success will eventually reward the labors of the many investigators now at work on this problem.

Photographes—The intaglio process above mentioned produces results of the greatest fineness and beauty, but is so expensive as to be limited in use to high-class book work. Effects can be produced rivalling those of the finest steel engravings in delicacy and beauty. This process, though applicable to the reproduction of photographs, is more largely employed in obtaining engraving-like copies of celebrated pictures. It is so complete in its results as to indicate every touch of the painter's brush, and the upstanding ridges of paint in the bolder touches are rigidly reproduced in the copy

E'mid, in Oklahoma, the capital of Garfield co., on C., R. I. & P. R.R., 72 m. N. by E. of El Reno. Pop. (1897) about 3,200.

Em'mis, in Texa, a city of Ellis co., 34 m. S. of Dallas, 181 m. N.E. of Austin, is situated on the Hous. & Tex. Cent. and Tex. Midl'd R. Rs.; has cotton-seed depositories, a cotton compress, a fruit cannery, lumber mills and railroad repair shops. Pop. (1890) 2,171.

Em'silage. (Agric.) The term applied to preserved succulent herlage stored, without drying, in pits or silos; also to the method of such preservation. This method was introduced into the U. S. from France about 1875, and has now become more common in the dairy districts of this country than in Europe. The E system is not of modern origin, methods of preserving been practiced by the Egyptians, Mexicans and American Indians. The method practiced in ancient times was to dig a pit in sandy soil, fill, and cover compactly with sand, so as to make a nearly air-tight covering. Silos as formerly constructed in modern times were simply dug in the ground in a dry place, the green crops thrown in, and the top covered with boards on which earth was thrown. In this way the contents could be kept for months with little change. There is, however, always some, and often a considerable, loss of the ensilaged material, which also at times becomes acid or slightly mouldy. Improved silos are now made to exclude the air, they being filled quickly, the material weighted with stones or other weights of various shapes, the circular being the best. A cheap method is to dig a circular pit of some 12 to 20 feet in width and as much in depth, and protect the sides by a cemented brick wall, packed behind with clay. The pit at the top should be contracted to about balf its bottom diameter, covered closely enough to exclude the air, and have earth heaped upon the cover to prevent frost reaching the contents. Many methods are employed, however, and access to the material is obtained in various conditions, some using it when very immature, others

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when nearly ripe. Some fill rapidly, others slowly; some weight the material, others cover simply with a foot or two of grass or straw. Of the plants ensilaged, Indian corn is now most largely used in the U.S. In Great Britain, where the practice of E. has apread rapidly since 1883, it has been found that E. may be made in stacks as well as in silos. The percentage of loss is greater in the stack, but this is more than counterbalanced by the greater cheapness of the process. Ensilage consists of two kinds, "sweet" and "sour," the latter being promoediately closed. By filling without packing, and deferring pressure for several days, the temperature rises to from 120° to 160°, and the bacteria which produce acid fermentation seem to be the temperature rises to from 120° to 160°, and the bacteria which produce acid fermentation seem to be killed, since the silage remains sweet. Nearly all farm crops, except roots, may be preserved by E., and farm animals generally eat both sweet and sour silage with relish, while there is reason to believe that the process adds slightly to the feeding value of the fodder employed. The word silage, a shortened form, is very commonly used for ensilage.

Em'terprise, in Kassas, a post-village of Dickinson co, 6 m. E. of Abliene, on A., T. & S. F., U. P., and C., R. I. & P. R. Bs.; has foundry, machine shop, flour mill, brick yard, creamery and stone-quarries. Pop.

'terprise, in Ohio, a village of Van Wert co. Pop

Em'theism. n. (Philos.) The belief that God is every-where in nature; differing from Pantheim, or Cosmothe-ism, which holds that there is no God but the forces

ises, which holds that there is no God but the forces and laws manifested in the universe.

Enthuse. (This word, formerly regarded as slang or at least only colloquial, seems to have become fairly established as a correct and expressive term.)—s. a. To render enthusiastic.

—s. To become enthusiastic.

Entering, a. Entering; admitting.

—a. One who enters; a beginner; a new member of a class or secret.

-a. One was curer, a -co.

class, or society.

Em'tropy, s. [Gr. sutropia, turning toward.] (Physics.)

In thermodynamics, the constant transformation of motion into heat; sometimes called the thermodynamic

Em'velopes, Mamufacture of. In the manufacture of envelopes, now used in such enormous multitudes, though of comparatively recent introduction, the web of paper is cut by machine-power, usually into lozonge- or diamond-shaped sheets of large dimensions. These sheets being placed in convenient piles, on each is placed a series of dies, which are pressed down by steam-power through the pile, cutting out a number of small sheets, called blanks, of the exact shape of the envelope when opened out flat. Folding and gumming follow. These were formerly done by hand, the girls employed acquiring wonderful dexterity; but machines are now employed. In these the blanks are placed in a pile on the front of the machine, which is self-feeding. One motion of the automatic feeder serves to lift the blank, gum the bottom and the upper or open flap, and deposit the blank in an open frame. A plunger now descends and forces the blank through the frame to a door where folders press down the flaps, but fasten only the lower one. The door is now lowered, and the envelope let fall upon an endless chain, where it is held in position by pins. It passes through a drying process while travelling on the chain, and is delivered at the other end of the machine ready to be packed. Such a machine has a capacity of 80 envelopes per minute, or over 55,000 in a day of ten hours. This rapidity of production is necessary, in view of the many millions of them that are annually consumed.

Estith'ie, a. [Gr. sos, dawn, and likhos, stone.] (Geol.)
Pertaning to the earliest part of the stone age.

Este of diom. or Este of desagn. A listrument having steel springs which are struck by hammers operated from a keyboard.

Espine e. n. (Acosa.) An instrument for determining by sound the distance and direction of one vessel or En'velopes, Manufacture of. In the manufa

from a keyboard.

E'ophome, a. (Aosa.) An instrument for determining by sound the distance and direction of one vessel or other sound-producing object from another at night or in a fog. It consists of a brass box, flat at top and bottom, and concave on the sides. In the center of each concavity is a projecting piece of brass, shaped like a protruding human ear. The bottom of each ear opens into a small metal pipe, to which is attached a length of rubber tubing. These tubes are attached to a head-piece, in such a way that when the operator puts the latter on his head the end of each of the tubes comes opposite one of his ears. The E needs to be so placed as to command an unbroken space ahead and on each side, so as to point to each quarter from which danger is likely to arise. The utility of the instrument depends on the comparative loudness of the sound which it conveys to each ear. If, for instance, a whistle should depends on the comparative loudness of the sound which it conveys to each ear. If, for instance, a whistle should be heard in a fog, the ordinary lookout would have difficulty in deciding from what quarter it came. But when the sound struck the E., the operator would perhaps hear it plainly with one ear and faintly or not at all with the other. He would know from this from which side it came, and would swing the E. around until an equal volume of sound reached the other ear. When this was attained he would know that the front end of the instrument was pointing directly toward the whistle. this was attained he would know that the iron end of the instrument was pointing directly toward the whistle. A few seconds, by any one of good hearing, would determine this, while the test of distance would have to depend on the degree of loudness of the sound. The advantage of the head-piece is that it cuts off necessary and enables him to give his whole attention to the

distant sound, whose strength is augmented by the artificial ears. In various instances an operator has artificial ears. In various instances an operator has reported a distant sound with the E. long before it was reported a distant sound with the Experiments have been made with this instrument in the interest of the government, and with such success that the Secretary of the Treasury proposes to put it on the revenue cutters. These experiments proved the instrument to be strikingly sensitive. The ripple of oars was detected where the rowers were doing their best to row silently. A bell-buoy was picked up in a thick fog after being located by the E at a mile's distance. On one occasion, the operator being blindfolded, a tug was chased by the sound of its whistle, while twisting in every possible way in its course, and was run down by the E. In practical operation the E. is placed on top of the pilot bonse and the tubes brought down for use by the pilot within.

Within.

BOEO'On, n. (Geol.) The name given in 1864 by Sir
William Dawson, of Canada, to a peculiar formation in
the Archean geological series of that country, which he
assumed to be the remains of an animal form, a large assumed to be the remains of an animal form, a large example of the Foraminiera, which he believed to have grown in multitudes on the sea bottom of that age. The rocks in which it is found lie below the known fossil-bearing beds, and he therefore looked upon it as the oldest known organism, and named it Eosofia ("dawn animal") Canadense. Several prominent naturalists agreed with Dawson that this formation was of international contents. ("dawn animal") Canadense. Several prominent naturalists agreed with Dawson that this formation was of organic origin, among them the late Dr. Carpenter; but of late years geologists generally hold the opposite view, and the belief that it is inorganic is growing. King and Rowney were the first in Great Britain to express this opinion, with which many American geologists agreed, and this view is now widely held by mineralogists and petrologists. The structure of E. was very carefully examined by Prof. Möbins in 1878, with the resulting conclusion that it is inorganic. He shows that the so-called "proper wall" or "nummiline layer" of the supposed fossil consists simply of fibrous calcite. Under the microscope there appear in this fibrous band none of the assumed "delicate pores" or fine "vertical tubes" assumed to exist, the fibres consisting of minute four-sided needle-like prisma, lying close side by side. The seeming organism consists of concentric layers of dark-green serpentine, its interstices filled with the fibrous calcite above named; and, though in structure it bears some resemblance to a foraminiferous organism, belief in its organic nature is rapidly disappearing, particularly in view of the fact that it occurs in the Laurentian rocks, at a level far below any other known fossil form—a fact which adds greatly to the improbability of its organic origin and requires indubitable evidence for the establishment of such a theory.

Eph'op, n. [Gr. ephonus] One of fire supervising magistrates in Sparta and other Doric towns. They were chosen by the people and had control even over the king.

Ephron. a. [Gr. ephoras] One of five supervising magistrates in Sparta and other Doric towns. They were chosen by the people and had control even over the king.

Epic Po'etry, or The Epos. (Lit.) That form of extended poem which relates a series of events or adventures, usually of a heroic or supernatural character, in language of a dignity suited to the subject. In the epic poem we have the primitive form of extended narrative, the precedent of the modern romance, couched in that poetic language which was the vehicle of all important early literature, and dealing with those subjects which were most attractive to the imagination of man at an early epoch. With the rise of the drama and of prose fiction the epos has gradually died out in all countries, the few later attempts to revive it having proved conspicuous failures. E. P. has passed through two stages, that of the primitive, naturally-developed epos, and that of the epos of a literary age, wriftical in origin and character, though in various instances of high merit. Almost the first in time, and quite the first in grade, of the great epics is the immortal Iliad of Homer. Its successor, the Odyssey, probably by the same hand, stands next it in merit. These great works research has proved to have been growths—not new productions. They undoubtedly had their origin in earlier heroic poems or lays, each telling a single story, a series of which, relating to a single event, were afterward combined by a master-hand into the splendid epics which stand as the beginning of extant Greek literature. How many of these odes existed in early Greece it is impossible to say. None of them have been preserved in their original forms. But we have the best of reusons for believing that they were devoted very largely to the Trojan War and the wanderings of Ulysses, and that the poet who is known to us by the name of Homer selected from them the best and most nearly related in incident, and wove these together into the two great epics which survive under his name. Sone of the od among the remote monuments of Babylonian literature, portions of a very antique poem of epic character, probably written several thousand years before the *litad*. (See Babylonian Literatures). Various other peoples, in the first literary periods, produced poems of an epic scope, and very probably in the same manner, through a welding together of antecedent heroic lays, the whole going to indicate that this represents a natural stage in the outgrowth of the human mind. Egypt had its epic, detailing, in exaggerated language, the warlike deeds of Rameses the Great. The imagina-

tive Hindus produced two voluminous epics, the *Bamayana* and *Mahabharata*, within whose capacious scope nearly all the heroic and supernatural legends of scope nearly all the heroic and supernatural legends of early India are gathered. Germany produced its great national epic in the Nibelsages Lied, the song of the Nibelsages and earlier days. Some such lays still exist, in the ode of Gudrass and other ancient products of the Germanic muse. The great Persian epic poem, the Shah-Namah, is sufficiently late in date to permit much of its material to be traced in antecedent lore, the author, Firdousi, making no secret of the sources of his inspiration. Europe proved somewhat prolific of epic song in ancient days of civilization. We have already named the epics of the Greeks and Germans. The epic production of the Scandinavian peoples exists in the somewhat disconnected legends of the Elder Edda, the great reservoir of the mythology of the north. France yields us its epic in the northe Chanson de Roland, the type of the later prolific Chansons de Geste, and Spain France yields us its epic in the noble Chauson de Roland, the type of the later prolific Chausons de Geste, and Spain its epic lay in the fine poem of the Cuid. Among the Anglu-Saxous arose the poem of Beoretif, a striking example of semi-barbaric narrative art; and we may fairly class among the epic outgrowths of medieval Europe the humorous satire of Reynard the Fox, differing as it does from the heroic strain of the epics in general. It represents the epic development of the fable, and undoubtedly grew out of a series of precedent lays, which represented the thoughts and sentiments of the common people, as the heroic lays did those of the bards of court and castle. From the legends of the Celtito people of Wales gradually evolved the heroic narrative of Arther and the Knights of the Round Table. The Celts of Ireland were equally prolific in lays, of which they had two extended series, an ancient one clustering around the deeds of the Celtit hero, Chohwisind, and the later series in which Fiss is the heroic figure. Those were never condensed into epic form, though a modern poet, Macpherson, in his Cosion, has produced what may fairly be entitled the epic of the Irish roc. One other epic of primitive origin remains to name—the Ralecula of Finiand, produced also by a modern poet from a related cycle of ancient Finnish mythodgical and heroic lays. From a study of all these products of the epic muses scholars have come to one general conclusion, namely, that in the days of the early literary development of most or all civilized peoples, the poets of castle and court devoted their attention to the heroic and mythological and armatic interest to their earlies and probably, where some single main, the poet of castle and court devoted their attention to the heroic and mythological grades and reserved the production of metal pain and the product of the poet of castle and court devoted their attention to the heroic and produced around a single name. The next stage in the literary evolution of nearly all nations was for

framed and wrought by the individual genius of the poot, may almost be classed with the primitive epica, as in it are embodied the leading elements of what may be called the medieval Christian mythology. Italy continued prolific in epic song, yielding at a later date the heroic Jerusulem Léberaled of Tasso, the romantic Orlando Furioso of Ariosto, and the humorous and satirical outgrowth of the epic, the Morganie Maggiore of Pulci and the Orlando Insumorato of Boadro. In France the heroic song of Roland was followed by an extended series of narrative poems, the Chassons of Gesta, not rising to epic dignity, and gradually sinking into the prose romance. Spain for a while was prolific in epica, of which only the Arancoma of Ercilia survives as literature, though hardly as poetry. Portugal, on the contrary, had the merit of producing an epic of enduring fame, the Lusiad of Cameens. Coming to England we meet with another epic of world-wide repute, the Paradize Lost of Milton, in which themes of historical origin are departed from, the most elevated subject in Christian sacred lore accepted, and a poem produced as remote in its incidents from every day life as is the Divise Comedy of the Italian epic bard. With this great production the history of the epic fairly ends. Later attempts to produce epic poems have been made, some of them within our own day, yet none of them of living worth, and none of them wanted by the world, which has grown beyond the epic age, and now prefers its imaginative narrative literature in the form of the orman. The epic belongs to an unlettered age. It was intended to be recited, not read; and, though it survived into a cultivated period, it has died out before the growth of proce fiction and the wide-spread knowledge of the art of reading.

Epideem\*less. (Med.) Diseases which appear at intervals, rage severely for a time in a nation or over a continued, and the locality is properly drained. Epilenic diseases in that the latter never quite disappear, though they are indicated by the variou claimed their myriads of victims, owed their virulence largely to the utter absence of knowledge of the causes and the proper treatment of such affections, and the almost complete absence of sanitary precautions. As a rule E. are most destructive on their first appearance, perhaps from their sweeping away the more susceptible individuals. In some instances, however, they grow worse in their later periods. There are differences also in the severity of action of the same disease in its successive appearances, natural conditions perhaps affecting the special microbe involved and increasing or decreasing its virulence. Again, certain diseases appear at somewhat regular intervals. It may be that this is partly due to the possible fact that after each visit the survivors become immune to that particular disease; though this explanation is little more than a guess, the actual influ moss at work being very imperfectly known.

The spread of E. takes place in various ways. The microbic poison may be carried by persons and directly communicated to others; may be transmitted in clothing, food or other articles; and once having entered a country, may be transmitted through the medium of drinking water or the inhalation of air. In the cases of cholera and typhoid fever, water appears to be the vehicle of infection; in those of malaria and influenza or grip, infection seems to be transmitted through the medium of the air. As regards the prevalence of E., it may be said that within the 19th century their virulence and the width of their distribution have been diminished; and that some of them, formerly among the most destructive, seem now fairly under control. Such is the case with typhus, cholera and small-pox in cultivated communities, and such promises to be the case with various others. Yellow fever, for instance, so destructive in Philadelphia and New York a century ago, seems to have been absolutely banished from those and other cities of the North. The earlier cause of this growing immunity was improved sanitation. The later cause of it has been the progress of bacteriology, knowledge of preventive methods, and the extension of the principle of vaccination to produce immunity in the case of various diseases. Inoculation by the specially treated microbes of a number of diseases has proved highly valuable as a preventive; and it may be that in the coming years these E., once so terrible and destructive to mankind, may come almost completely under control. Another influence, of a preventive kind, may also in the future be brought into play, that of the discovery of the causes which render these diseases endemic in certain localities, and the removal of the causes by sanitary or other methods. To do this would certainly be of immense benefit, as drying up the reservoirs from which, in the past ages, those virulent plagues have so often been poured out on mankind. It may be said, in conclusion, that the term epidemic is not confined to bo

of 1884, and mad, at the time the E. E. was organized, about 500 chapters.

The E. L. was founded by representatives of five such societies who met in Cleveland, O., in May, 1889. A union was effected on the 15th of that month. The name was the result of a slip in speech by which the names "Oxford League" and "Epworth Hynnal" were union was effected on the 16th of that month. The name was the result of a slip in speech by which the names "Oxford League" and "Epworth Hymnal" were confused. The constitution was a modification of that of that of the Oxford League. The colors of the Young Peoples' Methodist Alliance—a white ribbon with a scarlet thread running through it—were adopted as the colors of the E. L. The maltese cross, which had been the badge of both the Oxford League and the Young Peoples' Christian League, was adopted as the badge, with the motto and initials of the E. L. The motto of the Young Peoples' Christian League, "Look up—Lift up," was made the motto of the new organization. John Wesley's words: "I desire to form a league, offensive and defensive, with every soldier of Jesus Christ," which had been the motto of the Oxford League, and the words of Bishop Simpson: "We live to make our Church a power in the world, while we live to love every other church that exalts our Christ," were adopted as sentiments of the E. L. Active members of the League were expected to take the following pledge: "I will earnestly seek for myself, and do what I can to halp others to attain, the highest New Testament standard of experience and life. I will abstain from all forms of worldly amusement forbidden by the discipline of the Methodist Episcopal Church, and I will attend, as far as possible, the religious meetings of the Chapter and the Church, and take some active part in them." The Board of Bishops promptly and heartily expressed their approval of the new organization; and the ensuing general conference, which net in Omaha, Neb., in 1892, gave its formal sanction to the E. L. and adopted it as a part of the regular conomy of the Church. It formed a constitution for the League, with this preamble: "For the purpose of promoting intelligent and vital piety among the young people of our churches and congregations, and in training them in works of mercy and help, there shall be an organization under the authority of the General Conference of t has exceeded the expectations of its most canguing promoters. The latest statistics (1897) show:

•	HAPTERS.	MEMBERA,
EPWORTH LEAGUEJUNIOR LEAGUE		1,200,000 300,000
TOTAL	22,041	1,500,000

All persons over sixteen can be admitted to membership in the E.L. Youths under sixteen may be enrolled in the Junior League, which is under the direction of a superintendent appointed by the pastor of the local church. Members of the Junior League take the following pledge: "I do hereby promise with the help of God, to try always to do right; to pray every day; to read every day in the Word of God; to alstain from profane language, from the use of tobacco, and from all intoxicating liquor; to attend the morning church service, and the regular meetings of the Junior E.L."

The chief governing body of the E.L. is the Baard of Control, which meets twice during the interval between the quadrennial sessions of the General Conference. It is composed of fifteen members chosen by the Board of



Fig. 2874.—REV. W. X. NINDE, D.D. Bishop of the M. E. Church and President (1897) of the Epworth League.

Epworth League.

Bishops, one of whom must be a bishop, who is President of the Board of Control and also of the E. L., and of one member from each of the 14 General Conference Districts, to be chosen at the General Conference by the delegates of the Annual and Electoral Conferences comprised in the several General Conference Districts respectively. The officers of the League are the President, four Vice-Presidents (two of whom must be laymen) a General Secretary (whose office is in Chicago, and who is the executive officer of the League), and a Treasurer. With the exception of the President, they are elected by the Board of Control; and the Vice-Presidents must be closen from its own members. There is also a German assistant-secretary and an assistant-secretary to labor among the colored membership in the South. These officers, except the last named, with the editor of the Epworth Heruld constitute the General Cabinet, which is entrusted with the powers of the Board of Control during the intervals between its sessions.

The work of the General League and also of the local.

Board of Control during the intervals between its sessions.

The work of the General League and also of the local chapters is grouped into four departments, with a vice-president at the head of each, namely: (1) Of Spiritual Work. (2) Of Mercy and Help. (3) Literary. (4) Social. An annual series of topics for the League's devotional meetings is prepared by the central office, and also a prescribed reading course. The Epsporth Herald is the official organ of the League. The constitution provides that the chapters shall be organized into Presiding Elders' District Leagues, and may also be formed into General Conference District Leagues. Other groupings may be arranged for the advantage of the work, such as Annual Conference Leagues, State Leagues, City Leagues, &c. The chapter is under the control of the Quarterly Conference and the pastor. The League has spread into foreign lands where the Methodist Episcopal Church has missions. Leagues have been organized in Mexico, South America, China, India, Japan, Italy, Norway, Sweden, Denmark, Finland and the Sandwich Islands. An estimate according to the most reliable data at hand gave, for 1896, in these countries, 429 chapters with over 17,000 members. Epworth Leagues have also been organized by the Methodist Episcopal Church, South, and the Methodist Church of Canada. An International Conference or Mass Convention of the Leagues is held blennially at some point in the United States or Canada. These great gatherings have been occasions of immeuse enthusiasm, drawing the young people into closer sympathy and giving a fresh impulse to Christiau work. Epecially has an increased zeal been manifested in the cause of world-wide missions, still further stimulated by specially-prepared ilterature, by giving prominence to the subject at conventions and other League gatherings. The work of the General League and also of the local

nd by a recent movement which favors the addition

and by a recent movement which favors the addition of a new department, under a fifth vice-president, to be called the Department of Christian Missions.

While the E. L. is a distinctively denominational young people's society, it is broadly catholic in its sympathies, and seeks a federation with similar organizations in promoting Christian work in general, in which each society shall preserve its identity and do its special work in its own way.

Equations (in vice-vin), s. [L. Lat. squariss, one who has charge of horses; squaris, a stud of horses, from Lat. cquast, a horse. See Equatrial.) One who has the charge of horses; specifically a term applied to an officer attached to the household of a sovereign prince, or great noble, who attends on horseback during visits, progresses, &c. In England the royal equerries hold second rank, after the master of the horses.

noble, who attends on horseback during visita, progresses, &c. In England the royal equerries hold second rank, after the master of the horses.

\*\*E\*\*Tile, in Colorado, a post-village of Weld co., 25 m. N. of Denver, on U. P. and B. & M. R. Ra. Rich coal mines near. Pop. (1890) 662.

\*\*E\*\*Tile, in Kansas, a city, cap. of Neosho co., 40 m. S. W. of Fort Scott, on the M., K. & T., and A., T. & S. F. R. Rs.; has saw and flour milla, a manufactory of furniture and makes large shipments of grain and live stock. Pop. (1895) 1,225.

\*\*Fifia. in Tensessee, a post-town, cap. of Houston co., 28

(1885) 1,225.

E'Fin. in Tennessee, a post-town, cap. of Houston co., 28 m. W. S. W. of Clarksville, on L. & N. R. R.; has flour mill, lumber and shingle mills, wagon, stove and stave factories, and naachine shop. Pop. (1890) 789.

Eryth'roscope, n. [Gr. erythros. red, and scoped, to see.] (Optics.) An optical instrument consisting of two glass plates, one blue and one yellow, which so absorb some rays and transmit others that green leaves appear as red, the effects of light and shade remaining.

Excelented in Utah, a post-village of Garfield co. Pop. (1890) 506. (1890) 506.

(1830) 300.

Lecam' bia, in Alabama, a S. county; area, 972 sq. m. Is intersected by the Conceuh and Escambia rivers, the Cedar and other creeks. Surface, nearly level; there are extensive pine forests. Pop. (1897) about 10,000.

Cap. Brewton.

Escama'ba, in Michigan, a city, capital of Delta co., on Green Bay, 73 m. S. S. E. of Marquette, on the C. & N.W. R. R. Has several large saw mills, a furniture factory and railroad machine ahops. It claims to be the largest iron ore shipping point in the world, having five extensive docks, erected at a cost of \$1,500,000, which handle annually over 4,000,000 tons of ore. Pop. (1894) 8,124.

Escamad'do, in Chijfornia, a post-rilage of San Diego co., 35 m. N. of San Diego, on the So. Cal. R. R. Pop. (1890) 541.

Eak'ridden in Kanasa

Sk'ridge, in K mas, a post-village of Wabauneee co. in m. W.S. W. of Topeka, on A., T. & S. F. R. R. Pop (1895) 554.

(1985) 554.

Esster'le, s. A believer in esoteric doctrines.

Esprit de corps ('spr'dek k\ldotr') [Fr.] A spirit of devotion, enthusiasm, sympathy and support animating the members of a society or body of people.

Es'quismanx or Es'k\ldotro Dog. A hist-tamed variety which is widely distributed in the Arctic regions, and indispensable for drawing the sledges of the natives and those of the explorers of those regions. The E D is hardy and powerful, much like the well-known shepherd's dog in form, with long hair, black and white,



Fig. 2875.—REQUIMAUX DOG.

brown, or dingy white. These animals retain much of the original wildness of their wolf ancestors, especially when overworked said ill fed, which is a too common

when overworked sud ill fed, which is a too common condition. They are subject to an epidemic that occasionally kills them in great numbers, to the serious inconvenience and impoverishment of their owners. Essex, in loses, a post-town of Page co., 21 m. from Clarinda, on C., B. & Q. R. R. Pop. (1890) 564.

Essex ville, in Michigan, a post-village of Bay co., 2 m. from Bay city; has lumber mills and a manufactory of salt. Pop. (1897) about 2,000.

E'an. The seventh letter of the Greek alphabet, corresponding to the long è of English.

Ether, Thee Lumminiferous. (Also spelled Eller) (Physics.) A medium which is believed to pervade all space and the interstices of all material bodies, to possess extreme tenuity and elasticity, and to be that through which light and radiant heat are transmitted, and probably electricity also, these forces existing as vibrations or undulations of the ether. The ether is believed to be a far rarer and more subtle substance than ordinary matter, to occupy all those parts

of space which are apparently empty, and to be continous throughout the universe; matter, on the contrary, being largely confined to the spheres, and to the widely separated comets and meteorites, the whole of which occupy but a minute fraction of the vast extent of occupy but a minute fraction of the vast extent of space. At various times in the history of science the hypothesis of an ether has been advanced, to satisfy certain seeming requirements, or in response to the metaphysical argument that nature abhors a vacuum. Ethers within ethers have been invented, sometimes filling space three or four times over, and usually with little warrant for their existence, until science became distrustful of all hypotheses of this nature, and many came to maintain that no such agent existed in nature, and that all the phenomena of radiation could be explained under the hypothesis of an extension of matter throughout all space. The study of the phenomena of light, however, gave rise to a new hypothesis of an ether, that distinctively known as the L. E., whose highly probable existence is now almost universally highly probable existence is now almost universally conceded by physicists. When light travels through all there is every reason to believe that it is not transmitted by the particles of air, since the vibrations of light are transverse, and no gaseous substance is capable of transmitting transverse vibrations. Moreover, the vibrations of light are millions of times more rapid than the normal vibrations which air transmits—those than the normal vibrations which air transmits—those of sound. Solid transparent bodies, such as glass, can transmit transverse vibrations, but more having such immense velocity as those of light. If air has this limitation, rarefied air extended through space would have a similar limitation, with others arising from its great rarefaction. There are, therefore, indubitable arguments against the acceptance of matter as the medium through which light travels. It demands a far rarer and more homogeneous medium, with properties differing from those of a gas; and this demand has been met by the supposition of an ether, pervading all space and permeating all bodies, and possessed of the properties necessary for the transmission of radiant force. But, as it is found that the velocity of light differs in dense as compared with rare air, and in different trans-But, as it is found that the velocity of light differs in dense as compared with rare air, and in different transparent solids, as indicated by the phenomenon of refraction, it would appear that these nedia take some part in the propagation of light. It seems probable, therefore, that some degree of connection, attractive or otherwise, exists between the particles of matter and the contiguous ether; and that through this connection the vibrations of the ether are modified and the speed of light reduced. That electricity is also a phenomenon of the ether is a theory which is now generally accepted by electricians. It was originally advanced by Clerk Maxwell, and has been proved by the interesting experiments of Hertz.—Physical Constitution of the Ether. The next question which arises is the vital one: What is the constitution of the ether? in what respects does it differ from matter? We know that it transmits transverse vibrations to vast distances with no apparent it differ from matter? We know that it transmits transverse vibrations to vast distances with no apparent loss of energy. This, it is affirmed, could not be per-formed by a gas, the continual change of place of whose molecules would soon dissipate the energy. It is there-fore claimed that the ether must be in a condition resembling that of solid matter, yet with such slight connection between its particles that it offers no obstruc-tion to the movement of the spheres of space. Some connection between its particles that it offers no obstruction to the movement of the spheres of space. Some
maintain that it is molecular in constitution, others
that it is a continuous medium, completely occupying
space and leaving no pores or cavities. Other theories
have been advanced, none of which are satisfactorily
proved; but whatever be the constitution of ether, its
existence seems necessary for the performance of work
which lies beyond the powers of matter. In the wrals
of one of its leading advocates: "There can be no
doubt that the interplanetary and interstellar spaces
are not empty, but are occupied by a material substance
or body, which is certainly the largest, and probably the
most uniform, body of which we have any knowledge."

—Relations of Ether and Matter. A very interesting
question srises in this connection: What are the relations between ether and matter? Are they distinct and
separate forms of substance, or does some intimate relations between them? The opinion is undoubtedly
growing that their relation is very intimate, that matter
is an outgrowth of ether, and that there is but one
substance in the universe, though this substance is
capable of aggregation into numerous forms. The
molecules of bodies, the solid masses of the spheres,
represent increasing degrees of this aggregation, the
first stage of which is the atom of matter. This theory was first advanced in a definite form by Sir William
Thomson, in his hypothesis of the vortex atom. He
maintained that the atom of matter is an irrute aggregation of ether, formed into a vortex like that of the
familiar smoke-ring, and incapable either of diesipation
or of new formation. This theory has many difficulties
to explain. Friction would quickly destroy the vortices,
and therefore ether must be destitute of friction; and
gravitation cannot be due to attraction, but must have
some other originating cause. The attempt to adduce
a sufficient cause has so far been an absolute failure. ome other originating cause. The attempt to adduce sufficient cause has so far been an absolute failure a sufficient cause has so far been an absolute failure, and it seems unlikely that the vortex atom theory can be sustained. But if either be credited with attractive properties, however slight, it is quite possible that this attraction may give rise to condensed and coherent aggregates, of exceeding minuteness and large powers of self-maintenance. Such aggregates, perhaps owing their form and self-sustaining power to some internal conditions of motion, would constitute the atoms of matter, differing from the vortex atom in being capable of dissipation and reformation, and also in needing no invention of hypothetical conditions for their maintenance; this requiring only the known principle of attraction, which can readily be supposed to make its force felt between the most minute particles of substance in the universe.

force felt between the most minute particles of substance in the universe.

Ethnog'raphy and Ethnol'ogy. These two branches of science are sections of the general science of subtropology, or the natural history of mankind, of which arcksology (q. v.) constitutes a third section. Ethnography deals with races and their divisions into hordes, triles, clans, &c., their particular institutions and customs, especially in their savage state. Ethnology deals with customs, institutions, superstitions and the like, which, though widely scattered, have some common basis or significance. Under ethnography may be classed the division of man into races and the distribution and characteristics of each race. It is not proposed to name here the various systems of race distinction that have been made, they being too various and contradictory to be of any special advantage to our subject. We shall therefore confine ourselves to a few words upon the general result of race study. It will suffice to say that two broad divisions of mankind early presented themselves, those of the whites and the blacks, the latter distinguished from the former by other peculiarities in addition to that of color. The whites again have several marked divisions, the most obvious being into the Mongoloid and Caucasian races, distinguished from each other by marked differences of form and feature. The American aborigines have Mongoloid characteristics, and differences of opinion exist regarding their race relations. As regards the Caucasian race, fit has been variously subdivided: on the basis of complexion and some other distinctions, into the dark and into the Aryans and Semites; and on the lasis of com-plexion and some other distinctions, into the dark and blond races, the peoples respectively of the south and the north of Europe. Recent research in Africa has distinguished a marked subdivision of the black race, in widely extended tribes of dwarfish people, who may fairly be set aside as a distinct race. Some look upon the Australian natives also as a separate race, while others regard them as the result of a mixture of races. This race mingling has gone on somewhat actively in all parts of the earth, and has burred the lines of distinction of the several original races, rendering the formatter of the several original races, rendering the formatter of the several original races. actively in all parts of the earth, and has blurred the lines of distinction of the several original races, rendering it frequently difficult to trave the affiliations of a tribe or people. The study of the ethnology of mankind leads us into a broad series of considerations, including such diverse topics as food; weapons, tools, and implements; shelter and clothing; domestic and public fires; barter and trade; and various other subjects belonging to the individual and social life of man.—Food. In the domain of food-getting, man has passed through four great phases, or steps of progress—those of hunting and fishing; sheep and cattle tending; agriculture, and general industry, which is, in its basis, simply a means of obtaining food. The whole series has converged toward one general result, the getting of more and better food for every man. As an example of the result, it has been calculated that the hunting tribes of American Indians required 1.75 square miles for the support of each person. At that rate all Europe could feed but two millions.—Weopons and Tools. Ethnological research has been largely devoted to this subject, and wast collections of the tools and weapons used by primitive man have been made, while new research is constantly adding to their number. The use of implements, like the production of food, has had its regular stages of development. At first, doubtless, wood, kones and stones came into the foliowed in succession by polished stones, by copper, bronze, iron, and steel. The multitude and diversity of the objects thus produced are enormous, and testify strongly to the ingenuity of man.—Shelter and Clothing. Both these sections of human art have had their long development. Shelter, beginning with the over-langing ock and the cave, and extending to earth excavations. strongly to the ingenuity of man.—Shelter and Clothing. Both these sections of human art have hait their long development. Shelter, beginning with the overhanging rock and the cave, and extending to earth excavations, wind-breaks, buts of a vast variety of forms, log and board houses, brick and stone habitations, has ended in luge fire-proof erections of iron and stone. In this course it has left a host of elifices of striking character, superb temples and palaces, pyramids and rock-hewn tombs as places of shelter for the dead, and cyclopean edifices in which early man sought to astonish future ages by his power of lifting heavy weights. The development of clothing, leginning with the undressed hides of animals, the inner bark of trees, &c., advanced to dressed hides and to textile fabrics, the preparation of which has become one of the leading industries of mankind; more workmen and factories, perhaps, being engaged in the manufacture of materials for human lediting than in any other branch of industry that can be named. The manufacture of furniture for houses and of ornaments for mankind has had a like long and interesting development, passing through the rudest primitive stages to the highly developed conditions of the present day.—Fire. One of the most important topics connected with the ethnological development of mankind is that of fire. When this almost indispensable agent of human progress first came into use it is mag may be found at mainting is that of fire. When this almost indisjensable agent of human progress first came into use it is impossible to say. Evidences of its use may be found at a remote epoch, and probably the first emigration of mankind from the tropics into the colder zones was rendered possible by the discovery of this useful agent. Some architects maintain that the first artificial erections of many memoral intended for deather. some architects maintain that the new artificial erec-tions of men were not intended for dwellings, but as hearth-places protected by reeds, bushes, or other shelters against wind and rain. These were the public fires of the clan, need by all its members. Only in later times each family obtained a fire-place of its own and the separate habitation and domestic fire came into use

That man early worshipped fire may be well conceived, in view of the seemingly magical character and high utility of this natural agent of mankind; and the theory essems acceptable that the public hearth became looked silver, lead, and copper abound in the vicinity. Pop.

Eureka, in Utah, a post-town of Juab co., 85 miles 8. Ewolu'tion, a. An unrolling or unfolding; the name of Salt Lake City, on U. P. and R. G. West. R. Rs. Has reduction works and quartz mills. Mines of gold, sold form earlier, conceining the name of life and matter have volved from earlier of life and matter have volved from earlier in the vicinity. Pop. That man early worshipped fire may be well conceived, in view of the seemingly magical character and high utility of this natural agent of mankind; and the theory seems acceptable that the public hearth became looked upon as the abode of the fire-god, and that from it as a model the dwellings of the priests, and later of the kings and chiefs developed—fire perhaps being looked upon as a holy possession, and only slowly growing common. The domestic hearth was long the altar of the fire-god, while the worship of fire developed into the national religion of the Persians, and a sacred and undying fire was maintained in the temples of many peoples.—Barter and Industry. The exchange of goods peoples.—Barter and Industry. The exchange of goods is am ing the earliest of human customs, the personal possessions of individuals being the first objects exchanged, and then objects being made for the express purpose of barter. This was followed by exchange between tribes, and the carriage of manufactured articles to law distances for exchange. cles to long distances for exchange. We find evidences of this in the discovery of Florida sea-shells in the mounds of the Ohio valley, of the tin of Britain in Western Asia, and of many other substances far from their place of origin. Thus barter developed into commerce, and the latter gave rise to productive industry, which grew steadily more active and varied as the wants of and the latter gave rise to productive industry, which grew steadily more active and varied as the wants of man increased, ending in the greatly varied and energetic industries of the present day. From commerce again arose emigration, the merchants being the first travelera, and mercantile caravans being alone acceptable visitants of foreign tribes. Through this agency and that of war the dissemination of mankind and the mingling of races have largely taken place.—Family development. Another important section of the subject of ethnology is that of the development of the family, which is one to which ethnologists have given wide study. It is still clouded in mystery, although many interesting facts have been gathered. As regards the sexual relations of primitive man, a diversity of opinions exist, some maintaining that it was one of promisculty, the females and children being the common property of the males of the tribes. Others deny this, and it must be said that there are no facts in the institution of ceisting savages to sustain it. The political institution of female descent, or the tracing of descent through mothers only, is an undoubted result of a state of society in which the paternal ancestry was difficult to determine, and the mother was the only descent through mothers only, is an undoubted result of a state of society in which the paternal ancestry was difficult to determine, and the mother was the only parent who could be surely known. The tracing of descent through the male is of far later origin, and probably only began after the institution of monogamous marriage was fully developed and it became easy to determine the paternity of a child. From the family arose the gens, a group of related families dwelling together in village life. From this again arose the horde, the tribe, the nation, successively wider groups of families. The patriarchal group apparently had its origin in the habits of the herding tribes of Asia, and led to the establishment of polygamy, a widespread Asiatic marriage institution.—Numerous other subjects relating to the development of mankind might be dwelt upon, if space would permit; such as those of the growth of chief hood and kingship, the recognition of property rights, and the accumulation of wealth, and much in relation to the development of language, literature, and the arts, all of which form parts of the science of ethnology. The development of religions also forms an important section of this wide-spread science, and might be traced from its early rude forms to the exalted religious ideals now entertained. But as all these subjects are considered elsewhere in this work, they may be passed over with simple mention here, as examples of the numerous topics which ethnological science embraces.

Ethosa, s. (Gr.) The spirit or disposition characterizing a people or community, as seen in their habits, tastes, &c.—The inherent quality of a work of art, period of literature, &c., as opposed to what is incidental or transient.

Eto'mian, a. Pertaining to Eton, or Eton College, in

Engiand.
—n. A student or graduate of Eton College.

Etow'sh, in Alubama, a N. E. co.; area, 510 sq. m. It is intersected by the Coosa river, and also drained by Wills and other creeks.

Mountainous and heavily Wills and other wooded; soil, fertile. Cap. Gadsdeu. Pop. (1897) about

30,000. Et'tricks, in Virginia, a post-village of Chesterfield co., 14 miles S.E. of Chesterfield. Pop. (1890) 991. Em'chites, n. pl. [Gr. enchomai, to pray.] A sect of Christians arising near the end of the 4th century, whose characteristic belief was that there dwelt in me demon which could only be expelled by prayer and

Eune'merism, n. The rationalistic system of Euhemerus, a Greek philosopher of the time of Alexander the Great and his immediate successors, who denied the existence of divine beings, and represented the classic gods as nothing more than defield heroes Eunphros'yne, n. [Gr.] (Myth.) One of the three Graces, who presided over the influences that make life cheerful. Embe/merium, n. The rationalistic system of Eule

cheerful.

Eure' k.a., in Nevada, a N. cen. co.; area, 4,150 sq. miles. The surface is partly mountainous, and there are rich mines of silver and lead. The soil requires irrigation to render it fertile. Cap. Eureka. Pop. (1890) 3,275.

A city of Eureka co., 85 miles E. of Austin, on Eureka & Palisade R. R.; has rich mines of silver and lead, and smelting and refuing works. Pop. (1890) 1,609.

Eureka, in South Dakota, a post-village of McPherson co., 26 miles N. W. of Roscoe, on C., M. & St. P. R. R.; is shipping point of a grain-raising region. Pop. (1895) 1,006.

1895) 1,908

(1895) 1,908.

189 Fings, in Arkonsos, a city, cap. of Carroll co., 85 miles S.W. of Springfield, Mo., on Eureka Springs R. R.; has about 50 mineral springs of excellent curative powers; ships livestock, and mineral waters. Pop. (1890) 3,708.

Eurse' biass, or Engal, born at Edessa near the beginning of the 4th century. One of his brothers was Eusebius of Cassarca, with whom he studied theology, and he took philosophy and science at Alexandria. His learning and eloquence led to his being chosen to succeed Athanasius as bishop of Alexandria; but he declined the appointment, and accepted the bishoptic of Emesa. His reputation as an astrologer led the people to oppose his settlement, and he soon resigned, retiring to Antioch, where he died in 360.

his reputation as an astrologer led the people to oppose his settlement, and he soon resigned, retiring to Antioch, where he died in 360. Emse'buss, or Nicomedia, contemparary with Eusebuss Pamphill, and apparently by some confounded with him. He was related on his mother's side to the Emperor Julian and became his tutor. He was first bishop of Berytus (now Beyrout) in Phœnicia, and then of Nicomedia. He espoused the Arian cause and incurred the displeasure of the Emperor Constantine, by whom he was banished temporarily from his see, but was restored to favor through the influence of the emperor's sister, Constantia; was selected to administer baptism to him in his last illness, and was made patriarch of Constantinople. At the Council of Nice he opposed the insertion of the Homoousian Clause, but signed the creed. He, however, defended Arians to the last, and is considered a leader of the Arians, so that the term Eusebian denotes a follower of that party. He died in the year 342.

died in the year 342.

Eusta'thian, a. Pertaining to Eustathius.

—. A follower of any one of the early bishops named

Eustathius.

Eustathius.

Eusta'thius, bishop of Sebaste in Pontus, a semiArian and extreme advocate of asceticism, who went
the length of prohibiting marriage, and introduced
monasticism into Pontus. He was deposed by the
Council of Melitena, A. D. 357, and that of Neo-Cesarea
in 358, and his followers were condemned by that of

in 368, and his followers were condemned by that of Nicopolis in 372.

Eusta'thius, native of Constantinople, who flourished in the latter half of the 12th century and was accounted the most learned man of his day. He was successively monk, teacher, bishop, and finally archbishop of Thesaslonica. He is the author of various religious works and of a commentary on Dionysius, the geographer. But his most important work is his Commentary on the Hisad and Odyssey of Homer. His death occurred sometime about 1194, and funeral orations in his honor are still in manuscript in the Bodiesian library.

Eusta'thius, St., bishop of Berea; for his zeal against the Arlans, promoted by the Council of Nice, in 325, to be patriarch of Antioch. A convention of Arians in 330 had him deposed on a charge of Sabellainism and of unfaithliness to his vows of ceilibacy.

ilanism and of unfaitfulness to his vows of cellbacy. He was banished to Thrace and died there in 360. **Eutrop'ic.** a. [Gr. estropos.] (Bot.) Turning to the right, or dextrorse; said of a twining plant, as the

morning-glory.

Evangel'ical, a. (Eccles.) In a special sense, earnes for gospel truth; spiritually minded, and not merely orthodox.—Pertaining to an evangelist, or revivalist, as evangelical work or preaching; but in this sense eranaelistic is more common.

getstate is more common.

—a. One who holds to evangelical doctrines; an adherent of an evangelical church.

Evangelist, a. A traveling preacher or revivalist.

Evangelistic, a. Pertaining to an evangelist or revival work. Ev'ans, in Iowa, a post-town of Mahaska co. Pop

é09

(1890) 609.

Evaporating Cone, n. An evaporator for syrup consisting of an inverted cone with double walls between which steam is admitted. The saccharin solution running in a thin film over the inner surface is heated by the steam beneath.

by the steam beneath.

Evap'orating Fur'mace, n. The furnace of a boiler for cane-juice, syrup, brine, &c.

Evaporation Gauge, n. A graduated glass measure with wire-gauge to prevent access of insects, for determining the ratio of evaporation in a given exposure.

Evap'orator, n. An apparatus for drying fruits, or for condensing vegetable juices or other liquids. An E. which drives off only a part of the aqueous fluid is called a condenser; one that boils in (partial) vacuo is called a racum-pun.

Ev'art, in Michigan, a post-village of Osceola co., 76 miles W.N.W. of East Suginaw, on F. & P. M. R. R.; has foundries, machine shops, and shingle mills. Pop. (1894) 1,317.

(1894) 1,317.

Evening-primrose, n. (Bot.) An erect blennial herb (Chothero biennia), commonly cultivated for its flowers, of a pale, yellow color, that open about sunset. Evening Star, n. Any one of the planets that may be seen at certain seasons just above the horizon in the early evening: especially Venus, on account of its brightness and beauty. Mars, Jupiter, and Saturn are, at various times, the other evening stars.

Ev'erett, in Pensylvania, a post-borough of Bedford co., 8 m. E. of Bedford, on H. & B. T. R. R.; has furnace, foundry, glass-factory, tanneries and planing mills. Pop. (1897) about 2 000

co., 3 m. s. of Uniontown. Pop. (1897) about 2,000.

Nop. (1897) about 2,000.

Verson, in Penseylvania, a post-village of Fayette co., 25 m. N.E. of Uniontown. Pop. (1890) 905.

of life and matter have evolved from earlier, more simplified conditions, and that throughout the whole history of the universe this unfolding has gone on, until from an original simple and uniform state of matter the existing complex and multiform state has arisen. The theory of E holds that all this change has been a result of the continuous operation of natural law, acting upon the substances and through the forces of nature, and without intelligent interference at any point. As regards the possibility of intelligent supervision, held by many who accept the general doctrine of E, the leading upholders of the theory do not concern themselves, confining their attention to the physical aspects of the theory and avoiding any statement concerning its metaphysical aspects. E, has been considered from two points of view. In the minds of the majority of its advocates only its biological conditions are taken into account, the theory promulgated by Darwin and maintained by his large following of scientists that the whole process of life has been one of unfoldment, each species of animal and plant arising through development from two points of view. In the minds of the majority or its advocates only its biological conditions are taken into account, the theory promnigated by Darwin and maintained by his large following of scientists that the whole process of life has been one of unfoldment, each species of animal and plant arising through development from some preceding species, and the whole broad sum of organic life as now existing being the result of a direct growth from the minute forms and simplified conditions of the earliest life. The other scientific view is from a broader standpoint, and takes in all nature, organic and inorganic, material and mental, applying the doctrine of E to the total development of the universe. This doctrine has been advanced, with greater or less clearness, by philosophers from the days of early Greece to the present day, and is the basis of the great work of Herbert Spencer, whose system of philosophy is essentially one of E, he ascribing the whole outgrowth of the universe to the action on matter of laws and forces, and finding the whole intricate problem very largely explicable on this general principle.—Creation and Emandion. There are two other theories of the universe, far older and more widely accepted than that of E—the creation and emanation theories. While belief in E in the past was confined to the small band of philosophers, the other views were accepted by the priesthood and people in general; and though E is now the doctrine held by a wide circle of scientists and others who dwell within the atmosphere of scientists and others who dwell within the atmosphere of scientists and others who dwell within the atmosphere of scientists and others who dwell within the atmosphere of scientists and others who dwell within the atmosphere of scientists and others who dwell within the atmosphere of scientists and others who dwell within the atmosphere of scientists and others who dwell within the latter that of the dwell process of a farmal and plant as the result of the dwell process of a farmal and pl to a change from the nonlogeneous to the neterogeneous, from the indefinite to the definite, from the incoherent to the coherent; that matter in its distribution, and force in its operation, were originally homogeneous indefinite, and incoherent; and that from this original condition gradually arose heterogeneous conditions of matter, definite and complex in organization, and coherent and individual in form. From a broad general coherent and individual in form. From a broad general level of uniform matter, destitute of parts, of separate forms, of definite aggregations, has arisen under the workings of natural law the universe we now behold, with its cosmical spheres and the highly varied and complex individual aggregations of matter on the surface of these spheres; while from some general and indefinite basis of mentality, in unorganized nature, has arisen the human mind with its high development and multitudinous separate instances.—Inductive philosophy.

E. as we have so far considered it, must be looked upon as mainly theoretical. Each of the philosophers went to nature for the basis of his system; but most of them built so imposing an edifice of reasoning on so slender a foundation of fact that their systems only exist to-day as literary fossils, kept in libraries as in museums, but having no living influence upon modern thought. Spencer, who was in thorough touch with modern science, based his philosophy on a broader fabric of discoveredifacts than any of his predecessors; but, like all philosophers, he began with a series of deductions, which he sought to illustrate and prove by evidences drawn from scientific observation. The scientists have pursued a different course, depending mainly on inductive reasoning, the study of the facts of nature and the correlation of these so far as discovered. The phenomena of life have particularly attracted this class of thinkers, a number of whom hold advanced ideas of thinkers, a number of whom hold advanced ideas of the evolutionary origin of living things. Lamarck was one of the first to advance a special theory of organic E. His theory did not meet with acceptance, nor did the views of any other evolutionary writer win many adherents until Darwin appeared upon the field. From continued observation and experiment, and an endeavor to comprehend the significance of the facts observed, this scientist gradually wrought out a new conception of nature's workings, illustrating every step of his progress by examples and experiments, and advancing a definite theory of organic E which appealed to scientists as one of high probability and has been widely accepted; while the work of Darwin has been widely accepted; while the work of Darwin has been widely accepted; while the work of Darwin has been widely accepted; while the work of Darwin has been widely accepted; while the work of Darwin has been widely accepted; while the work of Darwin has been widely accepted; when the work indicated was as old as Aristote, and had, in the pr theory was far from sufficient to explain all the modifications in animal form, and a broader and more general came for these modifications was needed before the theory of evolution could gain any wide circle of adherents. This cause appeared in the theory of natural selection; suggested by Wells in 1813, and somewhat elaborated by Mathew in 1831, but which remained almost unknown until promulgated by Wallace and Darwin in 1838—by the former in a brief statement, by the latter with a wealth of illustration and a completeness of argument that took captive the scientific world, and gained instant and wide acceptance for the theory by many of the first thinkers of the age. (For the details of this theory, see Darwinker) Darwin's theory has met with many advocates, and many opponents. While it seems insufficient to explain all the steps of change in organic beings, it has won a host of adherents, and raised E. to the position of one of the great theories of the age. As regards the phenomena which natural selection seems incapable of explaining, few look upon their existence as in any sense fatal to the theory of organic E, but as simply demanding an extension of this theory to cover these problematical points. In the effort to do so, various supplementary hypothesis have been advanced, and many American scientists have reverted to the older views of Lamarck, which are held to be of value as indicating secondary causes of organic change. A Neo-Lamarkian school has ariseu, in which use and effort are regarded as active and important aids to organic change, and the influence of the mind, as exercised through the muscles, is considered to be a potent aid in the production and preservation of variations, especially as influencing those variations to take place in particular and useful directions.—General results. The development of evolutionary ideas has by no means been confined to organic natura, considered from its physical aspect. The prominence which the theory has attained since the appearance of Darwin's Origin o

their evolutionary significance pointed out. At the present day the number of writers on the subject of E. in some one of the numerous phases is far too great for enumeration here; and we need only add that the whole universe of force and matter is to-day being worked over in the fertile field of evolutionary thought. Ew'ing, in South Dakota, a N.W. co.; area, 1,008 aq. m. Risers, North Fork of Grand river and Box Elder creek. Cattle raising is the leading industry. Unorganized. Ex'cavators. (Engineering.) Machines for excavating solid soil, as dredges excavate the water-soaked soil of streams and harbors. These machines are used in making docks, railread cuttings, canals, etc. Two kinds of E are in use, each adapted to a particular kind of work, though they are often employed together with effective results. One of these, intended to make a long, narrow cutting, or "guilet." looks and works like the ordinary steam crane, such as is used for loading railroad trucks, except that it is mounted on wheels to move on rails, while the hook at the end of the chain of the crane is replaced by a strong bucket or scoop of plate-iron, with a very heavy handle or lever to which is fastened a second chain. The lever is heavy enough to balance the scoop when filled with clay. In operating the machine, the scoop is lowered and the two chains push it forcibly into the bank until it is full of earth. Then it is lifted by the suspension chain until over a wagon or other conveyance, when the chain on the handle tilts it up and empties it. The machine is now swung round on its centre to renew the operation. These excavators rapidly make their way through ordinary soil, one of the largest size being able to excavate two cubic yards per minute. The cutting is made wider than the machine, the arm shifting from side to side, and making a passage wide enough for men to work in and wagons to pass. When the cutting has sufficiently progressed, the excavator described is followed by one of the second class (see Fig. 2876), its purpose bei



Fig. 2876.—STEAM EXCAVATOR.

certain resemblance to the dredging machine (q. v.), on whose model it was originally formed. The machine moves on rails on the top of the bank, whose sides slope downward into the cutting; the jib is lowered until the row of buckets it carries can cut into the clay; as the chain revolves, the sharp edges of these dig into the earth and scrape up the sides of the sloping bank, reaching the top filled with earth. Passing over the machine, they are emptied into carts or conveyances which lie close to its water side. The E move forward slowly, but bring up in some cases as many as four cubic yards per minute. Of these two machines, the first is adapted to make long and deep cuttings, for the second to widen. The first is capable of performing a greater variety of operations, but the second much surpasses it in the quantity of earth it is capable of moving in a given time. In their operation two men to manage the engine are alone required, the excavator doing its work without further aid. Machines of this kind are indipensable to modern excavating operations, in which the old spade and pick method would be exasperatingly slow, and far too costly. By their aid excavations in clay, or other easily moved soil, can be made with a rapidity unknown in the older processes.

Exceter, in Nebraska, a post-village of Fillmore co., 47 m. W. S. W. of Lincoln, on C., B. & Q., and F., E. & M. B. Rs.; has grain elevators, flour mills, canning factory, creamery and large shipping trade in grain and live stock. Pop. (1890) 754.

Exceters, in Repail, [Law.] Issue, or offspring.—Yearly rents or profiles of land.

Exceters, and [Gr. are and games.] The custom of a tribe prohibiting marriage within the tribe; marriage outside of one's tribe or family; opposed to endogamy.

Excetiment Station. An institution equipped with the means for practical scientific studies in economic farming. certain resemblance to the dredging machine (q, w), on whose model it was originally formed. The machine

omic farming.

Exploit', v. a. To utilize, make available, or employ in schemes for one's own advantage; to search after;

in schemes for one's own advantage; to search after; to explain in detail.

Exploitation, s. The act of exploiting or utilizing; employing selfish ends.

Exploisuves. Chemical compounds which, through the effect of heat or shock, combine with explosive energy, being converted into forcibly expanding gases with such rapidity as to exert an immense rending energy. Of these, gunpowder has long been known and employed; the others, some of which are much more vigorous in this action, being of recent discovery. The latter include nitro-compounds, such as gun-cotton and nitro-glycerine, with dynamite and their other derivatives; picrate and chlorate mixtures; and the fulminates, whose violent action and great sensitiveness

restrict their use to minute quantities, known as detonators.—Gunpouder. This, the oldest and most widely employed of explosives, has been used in war for six or more centuries. For its composition and history, see Gunpowder. Various improvements in its manufacture have been made of late years, such as the replacement, in 1874, of part of the carbon by uncarbonized poat, and a German invention of 1882, in which the carbon consisted of allightly explorated gray. In his carbon consisted of allightly explorated gray. In his ized poat, and a German invention of 1882, in which the carbon consisted of slightly carbonized straw. In both these cases the rate of burning was slower, giving a long-sustained pressure. A form of the latter, known as cocoa powder, is manufactured in the U. S., the carbon consisting of two parts of baked wood and one part of some carbo-hydrate, such as sugar. Other improvements have been made, in adapting the form of the grains to special purposes. Attempts have been made to replace saltpeter, or potassium nitrate, with cheaper nitrates, such as those of lead, soda, and barrium, but not with satisfactory results. Other combinations have been made, producing compounds known as belitie, roburits, and securite, which are claimed to be flameless, and therefore suitable for use in mines.—Gasa-cotos. This explosive, discovered in 1832 by dissoving starch in nitric acid, adding water, and obtaining a precipitate, took its present form in 1846, through the dissolving of cotton in a mixture of strong nitric and sulphuric acids. It was hoped that it would make a useful substitute for gunpowder, but its tendency to spontaneous explosion, its very violent action, and the corrolve residue left by it, threw it into disfavor. These recent improvements in manufacture, however, have restored it in a measure to favor, and what is known as Abel gun-cotton has been adopted by several governments, as an explosive well suited to submarine warfare. Much attention has been given to it in the efforts to produce a smokeless powder, and Munro's smokeless powder, now in use to some extent in the U. S. Navy, contains tri-nitrocellulose as one of its ingredients. What is known as & Abelian produced in the control of the control o

Eye'-glass, s. sing. The eye-piece of a microscope or telescope.

pl. A pair of lenses or spectacles without bows, adjusted to the nose and held in place by a spring.

Eye'-opener, s. Something that opens the eyes or engages attention, or explains a mystery.—(Slang.) A drink of liquor in the early part of the day.

Eye'-reach. Eye'-shot, s. Range of vision; distance to which one can see.

Eye'-stome, s. A small, smooth object for removing foreign sulstances from the eye; especially a calcareous stone, an opervulum of a univalve shell in one of the family Twrbinidz. This, being placed under the lid at the other corner of the eye, works it way out at the other corner, bringing with it the irritating particle.

Ey'ry, s. Same as Arrie.

The sixth letter and the fourth consonant of the English and Latin alphabets. It corresponds with a Digamme of the Molian language, to which it is closely related both in form and power, and with the Fan of the Hebrew. It indicates a labio-dental sound produced by the passage of the expired as the season of the sound of f.—as were not become and the unspired labials p and b bear to each other. Pand word taken from the German whas the unspired labials p and b bear to each other. Pand word taken from the German whas the sound of f.—as were sounded fors; hence, in English words taken from the German whas the place of c.—as deep sounded for shore in Latin, f seems to have had a sound somewhat corresponding to a strongly aspirated k; for we find the latter frequently shainty and the latter frequently shainty and the sound of f.—as were sounded fors; hence, in English and Indian and Spanish, —as Indian and Span The figure of the Latin Parose from the doubling of the Greek F. As a numeral, according to Baronius, P is equivalent to 40, and F to 40,000. As an abbreviation, P stands for Alies, feetl, Flavius, Pahrenhelt, fellow. &c.; for forte in music, and f for fortisms. In Chemistry, it represents fisorius. In Herathry, it denotes the nevel point in an escutcheon; in Chronology, one of the seven; dominical letters; also Friday. In prescriptions, Pstands for fat, let it be made, or F. S. A. flat secuadum artem, let it be done (made) according to art or rule. In criminal law this letter was branded on criminals or felons when admitted to the benefit of clergy. P is marked on the French coins of Appers, on the Prussian of Magdeburg, and on the Austrian of Hall in the Tyrol.

(Mas.) F is the fourth note of the natural diatonic scale of C, and stands in proportion to C as 4 to 3, and is a perfect fourth above C as a fundamental note. F major, as a key, has one flat at its signature—viz., B flat. F minor has four flats the same as A flat major, of which it is the relative minor.

as a key, has one flat at its signature—viz., B flat. Y minor has four flats the same as A flat major, of which it is the relative minor.

Pa. (Jd.) (Muz.) One of the syllables invented by Guido Aretino to mark the fourth sound of the modern scale of music; rising thus: ud, rc, mi, Ja. It is now used by the French and Italians to designate our note F.

Fanborg. (Jalburg.) a sea-port of Denmark, in the island of Flinen, 17 m. from Odensee; pop. 3,000.

Fa'blam, a. [Lat., a beam.] (Bot.) See Victa.

Fanblam, St., a pope, succeeded Anterus, 226, and suffered in the persecution under Decius, 226.

Fa'blum, in Missouri, a post-township of St. Joseph co.

Fa'blum, in Missouri, a township of St. Joseph co.

Fa'blum, in Missouri, a township of Knox co.

—A township of Marion co.

Fa'blum, in West York, a post-office of Hardy co.

Fa'blum, in West Frigniza, a post-office of Hardy co.

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Fa'blum, in Missouri, formed by the union of its north, short metrical narratives, composed for the most part in the 12th and 13th centuries, by the Touceres or early poets of the Langue d'Oil, or dialect of the North of France.

of France. (It'bri-ii'no), a town of Italy, prov. Macerata, 23 n. W. of Macerata city.

Fab'rie, m. [Fr. fabrique; Lat. fabrica, from faber, a
worker in hard materials, from fac, root of facio, to
make.] Any work made of wood, stone or metal; the
frame or structure of anything; workmanship; texture; frame or structure of a building; construction;
the building itself; an edifice; a house; a temple; a
church; a bridge, &c.—Any product composed of connected parts; as, manufactured cloth, &c.

Pab'ricate, e. a. [Fr. fabriquer; Lat. fabrico, fabricatus, from fabrica.] To make; to frame; to forge; to
fashion; to make out of wood, stone or metal; to build;
to construct; to manufacture; to devise; to invent; to
form a whole by connecting its parts; to form by art
and labor.

form a whole by connecting its paris; to form by art and labor.

To form or devise faisely, as a story or lie.

Fabrica'tion, s. [Fr., from Lat, fabricatio.] Act of fabricating, framing or constructing; constructing in front; as, a building faced with stone.

To form or devise faisely, as a story or lie.

Fabrica'tion, s. [Fr., from Lat, fabricatio.] Act of fabricating, framing or constructing; constructing in front; as, a building faced with stone.

To oppose with an additional superficies; to invest with a covering in front; as, a building faced with stone.

To oppose with an additional superficies; to invest with a covering in front; as, a building faced with stone.

To oppose with an additional superficies; to invest with a covering in front; as, a building faced with stone.

To oppose with an additional superficies; to invest with a covering in front; as, a building faced with stone.

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To oppose with an additional superficies; to invest with a covering in front; as, a building faced with stone.

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To oppose with an additional superficies; to invest with a covering in front; as, a building faced with stone.

To oppose with an additional superficies; to invest with a covering in front; as, a building faced with stone.

To oppose with an additional superficies; to invest with a covering in front; as, a building faced with stone.

To oppose with an additional superficies; to invest with a covering in front; as, a building faced with stone.

To oppose with an additional superficies; to invest with a covering in front; as, a building faced with stone.

To apple a superficies; to invest with a covering in front; as, a building faced with stone.

To apple a superficies; to invest with a covering in front; as, a building faced with stone.

To apple a superficies; to invest with a covering in front;

invention; a fable.

Fab'ulous, a. [Lat. fabulosus; Fr. fabuleux.] Containing or abounding in fable or fiction; feigned, as a story; devised; fictitious; related in fable; described or celebrated in fables; invented; not real.

Fab'ulousus, adv. In a fabulous manner.

Fab'ulousus, n. The state of being fabulous; fabulouity

fabulosity.

Fagade, (fasad,) \*\*. [Fr., from Lat. facies, the face. See Factal.] (Arch.) The face or front of any building of importance. It may be applied to any side of a large quadrangular building embelished with sufficiently striking architectural features, but it is usually confined.

striking architectural features, but it is usually confined to the principal front, in which the chief entrance is most frequently, if not always, situated.

Pace, n. [Fr.; Lat. facies. The Lat. facie, to make, whence facies is derived, is probably from Sans. bhdraydnd, to cause to be, the causative of bhd, to be, skin to lieb. paghal, Ar. fughal, to make.] That part of a form or body which presents a front surface or appearance; the whole form or manner of a thing or body; as, the face of the earth.

face of the earth.

"Lake Leman woos me with its crystal face."-Bri

The surface of the part of an animal's head, particularly the human head; the vis., e; the countenance.

"The children of Israel saw the face of Moses, that the skin of Moses, can bone."—Erod. xxiiv. 33.

Cast of features: aspect of the countenance: look: air of the visage; as, to put the best face on a matter.

"To be grave, exceeds all power of face."—Pope.

The surface of anything that presents itself first to view: external aspect; outside appearance or show; visible state of affairs.

"This would produce a new face of things in Europe."-Add: -Confidence; boldness; freedom from modesty or bashful-ness; freedom from abashment; effrontery; impudence.

"You 'Il find the thing will not be done With ignorance and face alone."—Hudibra

With ignorance and face alone."—Hadibras.

-That part of a body having several sides, which is seen from one point; one of the bounding planes of a solid; as, a cube has six faces.—Presence; sight; front; as, to run into the face of danger, to contradict a person to his face, to fice from the face of men, and the like,—Mode of exhibiting regard or countenance: favor or disfavor; good-will or anger; — mostly used scripturally.

Facetice, n. Quanty of being facetious; cheerful wit; sportive humor: pleasantry; jocoseness.
Facetie', n. [Fr.] A facet.
Faceta, (farthe-c.) n. [Lat. faciet, a face.] (Arch.) A name often given to flat bands or fillets introduced into architectural embellishments, but more frequently applied to the bands of an architrave, which are so placed that the one above meiner haven distributed. applied to the bands of an architrave, which are so placed that the one above projects beyond the surface of that which is immediately below it. In the architrave of the Composite order of architecture two facina are generally used, while in the Corinthian, and sometimes in the Ionic order, three are introduced. (See Fig. 650.)

Pa'cial, a. [From Lat. facies.] Pertaining to the face, P. ariery. (Anat.) A branch of the external carotid, which rises beneath the digastricus, and is distributed

which rises beheats the digastricus, and is distributed to almost every part of the face.

Fa'cially, der. In a facial manner.

Fa'cially, der. In a facial manner.

Fa'cia, n. (D.d.) The general aspect or external character of an animal, as it appears on a casual or first view.

character of an animal, as it appears on a casual or first view.

[Lat.] (Anal.) The face.

Facies Hippoerat'iea, s. [Lat. Hippocrates' face.] (Med.) A particular expression of the countenance, which, after a long illness, immediately precedes death; being regarded as an infallible symptom or prognostic of approaching dissolution. This particular expression of the countenance has been so called from Hippocrates, the first physician who gave an accurate account of this indication and which he has done with a minuteness that the experience of 23 centuries has not been able to alter or improve. The chief characteristics of the facies Hippocratica are, a sharp nose and contracted nostrils, the sockets hollow, and the eyes deeply sunk; pits in the temples, the cars pinched and cold, the forehead dry and wrinkled, the mouth open, and the countenance pale and livid. and livid.

and livid.

Facile, (fa'sil.) a. [Fr.; Lat. facilis, from facio, to make.] That may be made or done; easy to be done, accomplished, or performed; easy; not difficult; performable or attainable with little labor; pliant; flexible; easily persuaded to good or bad; yielding; ductile to a fault; rendy in performing; dexterous.

Facilences, n. Quality of being facile, or easily persuaded.

- Mode of exhibiting regard or countenance; favor or disfavor; good-will or anger; — mostly used scripturally.

"I will set my face against them."—Excited xv. 7.

Face to fuce, when both parties are present; confronted one with the other; as, the accused and accuser are brought face to face. To make a face, to distort the countenance; to assume a ludicrous or unnutral look.

"Shame lisel!!

"Why do you make such face to "Shake.

Face of a cylinder. (Mach.) The flat part of the cylinder of a steam-engine on which a slide-valve moves.

Face of a steam-engine on which a slide-valve moves.

Face of a bastion. (Fortif.) That part which intervones between the salient and the shoulder angle. — Face of a guality of being facile or easy or less difficult; to free from difficulty or impediment, or to distort the countenance; to assume a ludicrous or unnutral look.

"Shame lisel!!

"Why do you make such face to "Shake.

Face of a cylinder. (Mach.) The flat part of the cylinder of a steam-engine on which a slide-valve moves.

Face of a steam-engine on which a slide-valve moves.

Face in face to face!!

"To meet in front; to meet with the face toward.

"To stand opposite to; to stand with the face toward.

"To stand opposite to; to stand with the face toward.

"To stand opposite to; to stand with the face toward.

"To stand opposite to; to stand with the face toward.

"To stand opposite to; to invest with a covering in front; an additional superficies; to invest with a covering in front; an additional superficies; to invest with a covering in front; an additional superficies; to invest with a covering in front; an additional superficies; to invest with a covering in front; to meet with the face toward.

"To stand opposite to; to stand with the face toward.

"To stand opposite to; to stand with the face toward.

"To stand opposite to; to stand with the face toward.

"To stand opposite to; to stand with the face toward.

"To stand opposite to; to stand with the face toward.

"To cover with an additional superficies; to invest

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FAGG

nor person."—Shelt.

—Privilege; a right or power granted to a person.—The individuals constituting a scientific profession, or a branch of one, taken collectively; distinctively, the professors of medicine; the masters and professors of the several sciences in a college or university; one of the members or departments of a university.

(Phil.) A term applied to those active powers of the mind which are original and natural, and which make part of the constitution of the mind. Capacity, on the other hand, is applied to those manifestations of mind in which it is generally regarded as passive, as affected or acted upon by something external to itself. "Powers natural and active," says Sir William Hamilton, "are called faculties. Powers natural and passive, capacities natural and active," says Sir William Hamilton, "are called faculties. Powers natural and passive, capacities or recptivities. Powers acquired are habits, and habit is used both in an active and passive sense. The power again of acquiring a habit is called a disposition." When philosophers thus classify the different operations of the mind, and assign them to different powers, it is not to be supposed that they regard the mind as made up of so many distinct parts. The mind manifests itself in different ways, and it is only these manifestations that they arrange and classify: when therefeata itself in different ways, and it is only these manifestations that they arrange and classify; when, therefore, they speak of a power or faculty of the mind, they mean only that certain operations of the mind have been observed and classified, according to the conditions and circumstances under which they manifest themselves. "This way of speaking of faculties," says Locke, "has misled many into a confused notion of so many distinct agents in us, which had their several provinces and authorities, and did command, obey, and perform several actions, as so many distinct beings; which has been no small occasion of wrangling, obscurity, and uncertainty, in questions relating to them." Fac'umd, a. [Lat. facundus; for, fari, to speak.] Eloquent.

Fac'und, a. [Lat. facundus; for, fari, to speak.] Eloquent.

Facun'dious, a. Eloquent; full of words. (a.)

Facun'dity, n. [Lat. facundita.] Quality of being facund; eloquence (a.)

Fade', v. a. [Fr. fade; Ger. fad; akin to Lat. vadere, to go or vanish: Fr. fader.] To wear away; to cause to wither; to deprive of freshness.

-v. n. To vanish; to grow dim; to waste away; to perish or lose strength gradually; to decline; to languish.

-To lose color; to tend from a brighter to a weaker color.

Fad'ed, p. a. Decayed; withered; having become less vivid in color.

Fad'edly, adv. Poorly; meanly; decayedly.

resu vus. p. a. Decayed; withered; having become less vivid in color.

Fade'edly, adr. Poorly; meanly; decayedly.

Fade'less, a. Unfading.

Fade', r. n. [A. S. fegan; Ger. fügen, to join.] To come close; to fit; to suit; to agree.

—n. A bundle of sticks; a piece of a thick cake; a sack.

Fad'ienskoi, a Russian island of the Arctic Ocean, in the govt. of Yakatsk; Lat. 76° N., Lon. 141° to 145°

E. It is 100 m. long, by about 40 broad, and is inhabited.

Fad'ing, n. Loss of strength or color; decay.

Fad'ingly, adv. In a fading manner.

Fad'ingly, adv. In a fading manner.

Fad'ingly, ac. Losing color or strength.

Fad Loch, a lake of Scotland, in the island of Bute, 6 m. from Rothessy.

Fre'cal, a. See Fzcal.

Fre'ces, n. pl. [Lat.] (Physiol.) The excrementitions

PROCES, a. See FEGAL.

PROCES, n. pl. [Lat.] (Physiol.) The excrementitious contents of the howels—the refuse of the food and aliment, from which all the nutritious particles have been extracted by digestion and absorption in their passage along the intestines; and sometimes called alvine distance. charges, or the egesta diments; dregs; lees; settlings after distillation s

Fæc'ula, n. See Froula. FREC'ULA, n. See FROULA.

FRECHERA, (Jauint'sa,) a city of Italy, 20 m. from Ravenua. Manuf. Earthenware, paper, silk twist, and fabrics. F, the ancient Firentia, was at one period a town of the Boil, was afterwards a municipium under the Romans, and was annexed to the States of the Church in the 15th cent., by Pope Alexander VI., in which condition it remained till 1860, when, with the Emilian provinces, it was annexed to the kingdom of Italy. Fig. 22.641.

FREC'FRE, a. and n. Same as FAIRY, q. v.

FRI, v. a. [Sax. fage; G.r. feig, fearful, timorous.] To cause any one to labor very severely and constantly; to make one act as a fag or drudge.

cause any one to labor very severely and constantly; to make one act as a fag or drudge.

-r. n. To have a sensation of dread, as one about to die.

-To grow wearry; to tire.

-To labor to wearines; to drudge.

-n. A menial drudge; a school-boy who discharges menial services for another, of a higher class or form, at the great English schools.

Fag'-end, n. The end of a web of cloth; the intertwisted ends of a rope; the worse or meaner part of a thing.

thing

thing.

Fag'sing, n. [A.S.] A system of servitude at one time general in the higher schools of England, and which has not yet entirely disappeared. It consists in the junior boys, or those of the lower school, as it is called, being compelled to act as servants, or "fags." to the older or more advanced pupils. The fag is under entire subjection to his master, having to attend to his fire, prepare his meals, brush his clothes, and perform other menial duties; and even to smuggle into the house forbidden delicacies for his master's use, and bearing the punishment if detected. The commissioners report, with reference to this custom, that while some menial offices punisament; detected. The commissioners report, with reference to this custom, that while some menial offices too often assigned to fags, ought, in their opinion, to be allotted to servants, on the whole they think that it is not degrading to the juniors, and has no injurious effect upon the character of the seniors.

"I am traduced by tongues which neither knew my faculties | Fag'leysville, in Pennsylvania, a post-office of Montor person."—Shake.

gomery co.

agon, Gut Crescent, (fa-gawng',) physician to Louis
XIV., s. at Paris, 1632. He defended the doctrine of the circulation of blood, and collected numerous plants to enrich the royal gardens, of which he was superintend-D. 1718.

ent. D. 1718.

\*\*Fagopy'rum, n. [From Lat. fagus, beech, and pyrum, a pear—the fruit resembling in shape a beech-nut.]

(Bot.) The Buckwheat, q. v., a genus of plants, order Polygonacza. The Pagopyrum esculentum, called in France blé sarragin, is cultivated on account of the farinaceous albumen of its seeds, which are used, as grain, for food of man and cattle. It is upright, branched, I to 3 feet in height; the leaves are between heart-shaped and arrumahaned the flower pales of the seed (sut). and arrow-shaped, the flowers pale-red, the seed (nut) black and triangular, the angles even (not toothed). It is a common crop in France and in this country. Bees delight in its flowers, and in some of the States it is sown

on that account.

'ag'ot, n. [Fr. faget; Armoric and Welsh faged.] A
bundle of sticks or small branches of trees bound tobundle of sticks or small branches of trees bound together.— In times of religious persecution, the F. was a badge worn on the sleeve of the upper garment of such persons as had abjured heresy, being put on after the person had publicly carried a F. to some appointed place, by way of penance. To leave off the wearing of this badge was sometimes regarded as a sign of aposta v. Among military men in England, fagots were persons hired by officers whose companies were not full, to muster and hide the deficiencies of the company, and thus ter and hide the deficiencies of the company, and thus cleat the government. Fagot-viez, in English politics, were votes created by the partitioning of an estate into numerous small tenements, which were let to persons at an almost nominal rent, upon condition of voting at elections, according to the dictates of the lessor.

— a. To the together; to collect in a bundle; to bind promiscuously.

promiscuously.

"He was too warm on picking work to dwell, But fagoted his notions as they fell." — Dr

Fag'oting: n. A term applied to the binding together of the prunings of hedges.
Fagot'to, n. [It., a bundle of sticks.] (Mus.) A brass wind-instrument, blown with a reed, which can be taken in pieces, — whence its name; a bassoon.
Fagus, n. [Lat., from Gr. phago, I est.] (Bot.) The Beech, a genus of trees, order Corylacas. The common beech, F. Americana, almost identical with the European beech, F. sylvatica, forms one of the tailest and most majestic trees of the forest, abounding in the Middle, Western, and Sonthern States, in deep, moist soil, and in a cool atmosphere. The trunks of the trees are



Fig. 983. - BEECH. FLOWER AND FRUIT, (natural size.) (Fagus Americana.)

frequently 8-11 feet in circumference, and more than 100 feet high. The bark is smooth, ash-colored; the leaves alternate, plicate in vernation; staminate aments on long pendulous peduncies; nut small, 2 together in the 4-lobed burr, oily, sweet, and nutritious; timber fine-grained, with reddish duramen, and white albumen. The roots do not descend deeply into the soil, but extend to a considerable distance close under the surface. The Red-beech is now regarded only as a variety. There are several beautiful varieties in cultivation, with purple fullage, sliver follage, &c.

fuliage, silver foliage, &c.
Fahl'ers, or Fahl'ite, n. (Min.) Same as TETRA-

Fahl'ers, or Fahl'ite, n. (Min.) Same as TetraHedding, or Falun, (fa'loon.) a town of Sweden. 55 m.
from Gefte, celebrated for its copper-mines. Manuf.
Cotton and yarn. Pp. 6,218.
Fahl'umite, n. (Min.) A mineral crystallizing in six
twelve-slied prisms, of a grayish-green to a dark olivegreen color, and of pearly lustre. Sp. gr. 2-6-2-8. Comp.
Silica 44-9, alumina 30-7, peroxide of iron 7-22, potash
1-38, magnesis 60-4, water 8-66, peroxide of manganese
1-90, lime 0-95.

1-90, lime 0-95.

Fahr'enheit. Gabriel. Daniel, an eminent natural philosopher. He was a native of Danizic; B. 1686, D. 1736. He is principally known as the inventor of the thermometer-scale which bears his name. — See There-

NOMEYER.

Fallenee, (fa'ydns.) [From Fuenza, a town in Italy, or Fuyence, a small town in France.] (Fine Arts.) Pottery, consisting of a common earthenware ground, covered with a glaze, and enamelled with painted designs. It

Fac'tion, n. [Fr., from Lat. factio.] The name given by the ancient Romans to the different troops or companies of comitatants in the games of the circus. In the time of Justinian 40,000 persons were killed in a contest between two of these factions; and they were at last suppressed by universal consent. The term is applied in a bad sense to an party in a state which asserts. in a bad sense to any party in a state which attempts, without adequate cause, to disturb the public peace, or that offers uncompromising opposition to the measures

that offers uncompromising opposition to the measures of the government.

Fac'tiomist, n. One who promotes faction.

Fac'tiomist, n. Given to faction; addicted to form parties and raise dissensions in opposition to government; turbulent; prone to clamor against public measures or men; pertaining to faction; proceeding from faction.

Fac'tiomily, adv. In a factious manner; by means of faction; in a turbulent or disorderly manner.

Fac'tionymees. n. Onality of being factious: incli-

raction; in a turoutent or disorderly manner.

Fac'tionmens, a. Quality of being factious; inclination to form parties in opposition to the government or to the public interest; disposition to clamor and raise opposition.

Facti'tions, a. [Lat. factitius, from facio, to make.]

Made by art, in distinction from what is produced by nature; artificial.

Facti'tiously, adv. In a factitious or unnatural

Facti'tiousness, n. Quality of being factitious or

Fac'titive, a. [Lat. faico, factus, to make.] Tending

Fmc\*141we, a. [Lat. faico, factus, to make.] Tending to make or cause; positive.
Fmc\*to, adv. [Lat.] (Law.) In fact.
Fmc\*tor, a. [Lat., from facere, to form; Fr. facteur.] (Math.) The term applied to each of the quantities which we multiply into one another to form a product.—The multiplicand and multiplier.—The term is also used in the same sense as divisor: so that any quantity which will divide another is a F of it. Thus, the entire factors of 16 are 1, 2, 4, and 8. The prime factors of a quantity are those factors which cannot be exactly divided by any other quantity except 1.

tity are those factors which cannot be exactly divided by any other quantity except 1.

(C. m. Law.) An agent employed to sell goods or merchandise consigned or delivered to him by or for his principal, for a compensation, commonly called factorage or commission.

Factorage. n. Agency of a factor; the allowance given to a factor by his employer, as a compensation for his services; more commonly called commission.

Factoress, n. A femule factor. (R.)

Factorial. a. Pertaining to a factory; referring to a factory.

a factory.
(Math.) Relating to a factor or factors.
Factorship, n. The business of a factor.
Factory, n. This word was first applied to an establishment of merchants and factors in foreign countries. Factory, n. This word was first applied to an establishment of merchants and factors in foreign countries. These factories were governed by several rules adopted for their own support and in order to protect them from the interference of the governments of the countries in which they resided. In modern times these factories have nearly ceased to exist. The mode in which they were instituted seems to have been, that they first had a liberty to trade, then a district was assigned to them in which they were exempt from the jurisdiction of the native courts. The English, at an early period, formed factories in China, which still exist. Factories have also been established by the Venetians, Genoese, Portuguese, Dutch, and French.—Gradually, the word F., more commonly used in England than in this country, has been limited to any building in which cotton, wool, silk, flax, hair, hemp, jute, or tow, are manufactured by machinery worked by steam, water, or some other power.—See Manufactory.

Factory Creeks, or Abran's Creek, in New Fork, formed by the union of Kinderhook and Claverack I formed by the union of Kinderhook and Claverack I creeks, and enters the Hudson River from Columbia co.

Factory Viele, in Newmont, a village of Manchester township, Bennington co., on a brauch of the Battenkill river, about Nim. S. of Montpelier.

Factory ville, in Michigan, a post-village of Hangshire co.

Factory ville, in New York, a village of Richmond co., on Staten Island, now (1897) part of New York city.

A past-village, in New York, a village of Richmond co., on Staten Island, now (1897) part of New York city.

A past-village, in New York, a village of Richmond 200 on Staten Island, now (1897) part of New York city.

N. W. of New York, a Village, of Richmond 200 on Staten Island, now (1897) part of New York city.

A past-village, in Pennsylvania, a post-borough of Wyoming co.

Wyoming co. Facto tum, n. [Lat. facio, to make, and totue, all,

whole.] A person employed to do all kinds of work, whole.] A person employed to do all kinds of work.

Fact uni, a. [From fact.] Belating to or containing facts.

Fact unia, a. [pl. Facta. [Lat.] (Law.) A deed; a man's own act and deed; a culpable or criminal act; an act not founded in law.—A deed; a written instrument under seal; called also charter.

(Arith.) The product of two quantities multiplied by ch other.

each other.

Facture, n. [Fr.] (Om.) An invoice or bill of parcels.

Facture, n. pl. [Lat. dim. of fax, a torch.] (Astron.)

Those portions of the sun's disc which appear brighter than the rest of his surface. See Sun.

Faculty, n. [Fr. facultt: Lat. facultas, from facilis, facile.] The power of doing anything; capability, power, means, or opportunity of doing anything easily.

Facility of performance; the peculiar skill derived from practice aided by nature. — Habitual skill or ability; dexterity; adroitness. — That power of the mind or intellect which enables it to receive, revive, or modify prreeptions; ability; talent; gift; endowment; personal quality. — Disposition or habit, good or ill.

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is also called Rafaelle ware, because Rafaelle was thought in his early days to have been engaged in this department of the art; but the Rafaelle who was employed in painting pottery was a Rafaelle Clarle of Urbino, who lived in 16th c. See POTTERY.

Pai-Fo, (A-fo.) a town of Cochin-China, 15 m. from Turon; pop. 16,000.

Fails, v. a. [Fr. failler, from Lat. faillere, to deceive; allied to the Ger. fchien, and Gr. sphallein.] To desert; to disappoint; to forsake; to abandon; to omit; not to perform; to be wanting in.

"As proud lords be when fortune fails them."—Sidney.

"As proud lords be when fortune fails them."-Sidn

v. n. To miss; to err; to fall down; to be made low: to sink; to give way. — To die; to perish; to become

"The faithful fail from among the children of men." -To sink ; to be borne down ; to come to an end. — To miss ;

not to succeed; to miscarry.—To be deficient in duty.

a. Omission; nonperformance; failure.

Without fail. Absolutely: certainly; unreservedly.

ail'ing, p. a. Miscarrying; becoming insufficient;

less; to swoon; to decline or fail in strength and vigor; to be week: to sink into dejection; to lose courage or spirit; to disappear; to vanish.

—a. Enfeetled, so as to be inclined to swoon; enfeebled with exhaustion; weak; languid; low; feeble; not bright or vivid; not strong, as color; not loud, as sound; not striking, as a resemblance; not vigorous; dejected; not active; depressed; dispirited.

Faimt'-hearted, a. Cowardly; timorous; dejected; easily depressed, or yielding to fear.

Faimt'ng, p. a. Falling into a swoon; failing; losing strength or courage; becoming feeble or timid.

—n. (Med.) A sudden and total or partial unconsciousness, resulting from impaired circulation of the blood through the brain, occasioned commonly by diminished action of the heart. The functions of the nervous system, respiration, and the action of the heart, are either suspended or very much diminished in force. The causes of Fare various,—as any strong mental emotion, loss of blood, severe pain, or anything that tends to diminish the vital energy of the system. Usually the patient is first conscious of a singing in the ears, then the sight becomes confused and all the sense deadened; the countenance becomes deadly paie, and the limbs are unable to support the weight of the body, which sinks to the earth. F., if occasioned by a diseased state of the brain or heart, or if prolonged, may result in death; but if arising from any trivial cause, the patient generally speedily recovers. He should be laid on his back, with his head low and his dress loosened about the neck; abundance of freeh air should be admitted to him, and ally speedily recovers. He should be laid on his back with his head low and his dress loosened about the neck

with his head low and his dress loosened about the neck; abundance of fresh air should be admitted to him, and cold water may be sprinkled on his face and neck, or ammonia applied to the nostrils.

Faint'ish.a. Slightly faint.

Faint'ishness., n. A slight degree of faintness.

Faint'ly, adv. With faintness; feebly; languidly; without vigor or activity; timoronsly.

Faint'mess, n. State of being faint; loss of strength, color, and respiration; feebleness; languer; inactivity; want of vigor or energy; want of brightness or vividness; feebleness or weakness, as of sound; feebleness of mind; feebleness of respiration; timorousness; dejection; irresolution.

mind; feeteness of respiration; timorousness; agestion; irresolution. **Paints**, n. pl. The impure and weak spirits constitution ing the last runnings of the still in the distillation whiskey.

ing the last runnings of the shift in the distinction of whiskey.

Fair, a. [A. S. fæger, fægr, beautiful, from fægra, to adorn.] Shining; bright; clear; free from spots; free from adark hue; white; beautiful; handsome; properly; having a handsome face; pleasing to the eye; handsome or beautiful, in general; pure; not cloudy or overcast; favorable; prosperous; open; direct; open to attack or access; unobstructed.

Frank; honest: equal; just; reasonable; impartial; peaceful; not violent; not effected by insidious or unlawful methods; not foul; candid; not sophistical or insidious; honorable; mild; civil; pleasing; not harsh; equitable and just: merited; liberal; not narrow; plain; legible; free from stain or blemish; unspotted; untarnished; middling; medium.

—ddv. Frankly; openly; civilly; complaisantly; candidly; honestly; equitably; happily; successfully; on good terms. Fair. o.

on. Elliptically, a fair woman; a handsome female; the fair, or female sex. Fair, n. [Fr. foirs, probably from Lat forum, a market-

place; Sp. féria; It. feria; from. Lat. feriæ, holidays, festivals, connected with the root which appears in dr. chairō, to rejoice.] A stated market in a particular town or city; a stated meeting of buyers and sellers for trade. Tale, s. [Fr. foire; Welsh fair; Lat. forum, a market-place.] A larger species of market, which is held at more distant intervals, and sometimes devoted to one species of merchandise, sometimes to several. In the earlier stages of society, and in inland countries, where the facilities for commerce are comparatively circumscribed, the bringing together of commodities and dealers at certain times and in convenient blaces is of the utmost imtain times and in convenient places is of the utmost im-portance; and for this purpose various privileges have been annexed to fairs, and numerous facilities afforded portance; and for this purpose various privileges have been annexed to fairs, and numerous facilities afforded for the disposal of property in them. In England and in other countries where the growth of towns, and the facilities afforded for the disposal and purchase of all kinds of produce have rendered them less necessary now than formerly, fairs have lost much of their ancient splendor and importance, and many have almost disappeared. The cattle and horse fairs have declined least of any. The principal fairs in Great Britain are the August Horse F. at Horncastle, Liucolnshire, where many thousand horses are annually exhibited for sale; the F. for the sale of Scotch cattle at St. Faith's, near Norwich; the Weyhill F. in Hampshire for the sale of sheep: and the fairs at Falkirk, Melrose, and Lockethy in Scotland. In Germany, the principal fairs are those of Leipsic, Frankfort-on-the-Maine, and Frankfort-on-the-Oder. In France, the F. of Beaucaire was formerly the largest in Europe, and is still frequented by a vast concourse of people. The great F. of Nishnij-Novgorod, in Russia, is at present the most important in Europe, being frequented by buyers and sellers from different parts of Europe and Northern and Central Asia. A celebrated Russian F. is held at Kiachta, on the Chinese frontier, where the greater part of the commerce between the Chinese and Russian empires is transacted. A large F is held at Mecca during the resort of pligrims to that place. In the United States, fairs for charitable and religious purposes are frequently held in sil parts of the country, at which a great variety of articles, collected by donation or purchase, are exposed for sale. Important fairs for the competitive exhibition of live-stock and various industrial products are held by the U. S. National Agricultural Society, the State agricultural societies, the Mechanic's Institute at Boston, the American Institute at New York, the Franklin Institute at Philadelphia, and by other institutions of similar character. delphia, and by other institutions of similar character. These are, however, merely competitive exhibitions of animal and industrial products, and have no commercial

bank, in Iowa, a post-village and township of Buchanan county

Fair banks, in Indiana, a post-township of Sullivan

Buchanan county.

Fair Panks, in Indiana, a post-township of Sullivan county.

Fair Bluff, in N. Carolina, a post-office of Columbus co.

Fair burm, in Georgia, a post-office of Columbus co.

Fair burm, in Georgia, a post-office of Compbell co., on the boundary line between Campbell and Fayette co., about 100 m. N. W. of Milledgeville.

Fair burm, in Kouth Dakota, a post-office of Custer co.

Fair burm, in Kouth Dakota, a post-office of Custer co.

Fair bale, in Ilinois, a post-office of Couvego co.

Fair dale, in Ilinois, a post-office of Oswego co.

Fair dale, in Fennsyleania, a post-office of Susquehanna co.; abt. 7 m. S.W. of Montrose.

Fair Deal'ing, in Kentuc'y, a P. O. of Marshall co.

Fair Deal'ing, in Kentuc'y, a P. O. of Marshall co.

Fair Deal'ing, in Kentuc'y, a P. O. of Marshall co.

Fair Deal' Ferdinand, Lore Speneral of the Parliamentary army in the English ctvil war, B. 1611, was the eldest son of Ferdinand, Lord Fairfax. On the first breaking out of the civil discontents, following the example of his father, and additionally influenced, it is said, F. embraced the popular side, and ranged hinself as one of the firmest opponents of the royal party in church and state. On the commencement of hostilities, he was commissioned by the Parliament to act as general of the horse under his father, who was

ther, who was made then commander in the north.
After the passing of the self-denying ordi-nance, F. was appointed general con-ointly with rom well. He and Skipton commain body of the Parlia-mentary army at the battle of Naseby; af-ter which he marched with a pow-erful division



Fig. 984. - LORD FAIRFAX.

counties; and, having reduced Exeter and other important towns, proceeded to lay siege to Oxford; on the surrender of which he gave evidence of the amenity of his disposition and the cultivation of his mind, by his care to preserve the Bodleian Library from pillage. And it should not

be forgotten that his conduct toward the captured cities in the W. districts, and, indeed, in all conjunctures and or all occasions, was merked by the highest sense or honor and humanity. During the Commonwealth, Cromwelt treated him with contempt, and he seems to have belt aloof from all party complications; but when it became evident that the restoration of the monarchy was the general wish and re olution of the country, he came forward to co-operate in bringing about that event. It was through his influence mainly that the Irish brigade forscok Lambert, and joined Monk's army. F. then selzed York on the royal behalf; was made a member of the healing partiament; and was nominated head of the committee appointed to wait upon Charles II. at the Hague, and to invite him to seat himself upon the throne of England. On the Restoration he withdrew altogether from active life, retiring to his beloved home in the country, where he b. in 1671. F was not a man of the highest order, or even of a high order, of intellect; but he was a conscientious, well-informed, humane, liberal, stout-hearted, and right-minded gentleman and soldier. Anxious to do his duty by all to the best of his knowledge, he had not ambition and sought neither rank now wealth for himself;—a rare example in any country or time.

wealth for himself;—a rare example in any country or time.

Fairfax, in Indiana, a post-office of Monroe co.

Fairfax, in Insec. a post-township of Linn co., about 10 m. S. W. of Cedar Rapida.

Fairfax, in Michigen, a P. O. of St. Joseph co.

Fairfax, in Michigen, a P. O. of St. Joseph co.

Fairfax, in Michigen, a P. O. of St. Joseph co.

Fairfax, in Michigen, a Post-village of Renville co.

Fairfax, in Ohio, a post-village of Highland co., about 55 n. E. of Cincinnati.

Fairfax. in South Carolina, a post-village of Barnwell

Fairfax, in South Carolina, a post-village of Barnwell

Fairfax, in Vermoni, a post-town and township of Franklin co., on the Lamoille river, about 38 m. N. E. by N. of Montpelier. Pop. (1897) about 1,570.

Fairfax, in Virginsia, a N. E. co., bordering on Maryland and the District of Columbia; area, abt. 420 sq. m. Rivers. Potomac and Occoquan rivers. Surjace, hilly; soil, not generally fertile. It contains Mount Vernon, the tomb of George Washington, 16 m. below Washington; Arlington Heights and National Cemetery; Fort Myer, &c. Cop. Fairfax. Pop. (1890) 16,655.

Fairfax, or Culeffer, in Virginia, a post-village, cap. of Culeper co.

Myer, ac. Cap. Fairlas. Psp. (1997) Assession.
Fairfax, or Culeper, in Virginia, a post-village, cap. of Culpeper co.
Fairfax, in Virginia, a post-town, cap. of Fairfax co., 14 m. W. of Washington, D. C. Pop. (1897) about 460.
Fairfaleld, in Alabama, a village of Pickens co., on the Tombigbee river. (Syone post-office.)
Fairfield, in California, a post-village, cap. of Solano co., about 50 m. N. N. E. of San Francisco. Pop. 550.
Fairfield, in Commedicat, a S. W. co., bordering on Long Island Sound and New York State; area, abt. 540 sq. m. Rivers. Housatonic river, and other smaller streams. Surface, diversified; soil, fertile. Caps. Bridgeport and Danbury. Pop. (1890) 150,081.

—A post-town, port of entry, and formerly one of the capitals of Fairfield co., on Long Island Sound, about 22 m. S. W. of New Haven. It has an excellent harbor, and commands considerable trade. The village is well built, and contains sume fine structures. To the N. is the village of Greenfield Hill, made famous by Dwight's poem of that name. F. was settled in 1659, and in 1779 men have by command of Governor Twon during the the village of Greenfield Hill, made famous by Dwight's poem of that name. F. was settled in 1659, and in 1779 was burnt by command of Governor Tyron during the revolution. Pop. (1897) about 4,000.

Pairfield, in Illinois, a township of Bureau co.

A post-town, cap. of Wayne co., about 150 m. S. S. E. of Springfield. Pop. (1897) about 2,175.

Fairfield, in Indiana, a township of De Kalb co.

A post-village and township of Franklin co., on the E. fork of White river, about 48 m. N. W. of the city of Cincinnati.

Cincinneti.

A village of Howard co. (OAKFORD post-office.)

—A village of Howard co. (OAKFORD post-office.)
—A township of Tippecanoe co.
Fairfield, in Iouc, a prosperous city, cap. of Jefferson co., on C., B. & Q. and C., R. L. & P. R. Ra., 50 m. N.N. W. of Burlington. Has important manufa of wagons and implements, woolen mill, foundry, &c. The trading center of a rich farming and stock-raising district. He.e are Fairfield (Lutheran) and Parson's (Presbyterian) colleges. Pop. (1897) about 4,000.
Fairfield, in Kentschy, a post-village of Nelson co., about 10 m. N. E. of Bardstown.
Fairfield, in Maise, a post-town and township of Somerset co., on the Kennebec river about 25 m. N. by

irfield, in Maise, a post-town and township of omerset co., on the Kennebec river, about 25 m. N. by

E. of Augusta.

Fairfield, in Massachusetts, a post-office of Hampden

Fairfield, in Massackusetts, a post-office of Hampden county.

Fairfield, in Michigan, a post-township of Lenawee co.

—A township of Shiawassee co.

Fairfield, in Missouri, a post-village of Benton co., on Pomme de Terre river, 100 m. S. W. of Jefferson City.

Fairfield, in North Carolina, a P. O. of Hyde co.

Fairfield, in New Jersey, a township of Cumberland co.

—A post-village of Essex co., abt. 11 m. N. W. of Newark.

Fairfield, in New York, a post-town and township of Herkimer co., about 10 m. E. of Utica.

Fairfield, in Oho, a S. central co.; area, 474 sq. m.

Bivers. Hocking river, and Little Walnut and Rush creeks. Surface, diversified; soil, fertile. Missrela, limestone and freestone. Capital, Lancaster. Population (1890) 33,939.

—A township of Butler co.

—A township of Butler co.

—A township of Greene co.

—A post-village in Bath township, Greene co., about 65 m. N. E. of Cincinnati.

—A township of Highland co.

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A township of Huron co.

-A township of Huron co.

-A township of Madison co.

-A township of Madison co.

-A township of Washington co.

-A township of Constant, a post-village of Marion co., on the Williamette river, about 12 m. N. of Salem.

-FairMedd, in Pennsylensia, a post-village of Adams co. about 42 m. S.W. of Harrisburg.

-A township of Crawford co.

-A village of Huutington co, on Shavers creek, about 100 miles W.N.W. of Harrisburg. Now Corrags.

-A village Lancaster co., about 22 m. S. by E. of Lancaster.

-A township of Lycoming co.

-A township of Lycoming co.
-A village of Somerset co., about 18 miles S. by E. of

Someret.

A township of Westmoreland co.

Fairfield, in South Carolina, a N. central county; area about 775 sq. m. Rivers. Wateree, Broad and Little rivers, and Wateree crock. Surface, hilly; soil, fertile. Cap. Winnsborough. Pop. (1890) 23,599.

Fairfield, in Tennessee, a post-village of Bedford co, about 55 miles 8. by E. of Nashville.

Fairfield, in Terzus, a post-town, capital of Freestone co, 143 miles N.E. of Austin. Pop. (1897) about 650.

Fairfield, in Utuk, a post-office of Utah co.

Fairfield, in Virginia, a post-town of Franklin co, about 46 miles N.W. of Montpelier.

Fairfield, in Virginia, a post-village of Rockbridge co, about 15 miles N.W. of Richmond.

Fairfield, in Wisconsia, a post-village on the boundary line between Rock and Walworth cos.

A township of Sauk co.

line between Rock and Walworth cos.

—A township of Sauk co.

—A township of Sauk co.

—A township of Sauk co.

Fairfield Corners, in Maiss, a village of Somerset co., on the Kennelsec river, abt. 22 m. N.N.E. of Augusta.

Fair Grove, in Michigan, a post-township of Tuscola co., about 78 miles N.E. of Lansing.

Fair Haven, in Consecticut, a post-village of New Haven co.; now forms the 11th and 12th wards of the city of New Haven.

Fair Haven, in Connecticut, a post-village of New Haven co.; now forms the 11th and 12th wards of the city of New Haven.

Fair Haven, in Illinois, a post-township of Carroll co., about 8 miles S.S.E. of Mount Carroll.

Fair Haven, in Massachusetts, a post-town and township of Bristol co., on Buzzard's bay, about 55 miles S. by E. of Boston. Pop. (1885) 3.338.

Fair Haven, in Michigan, a post-office of St. Clair co. Fair Haven, in Michigan, a township of Olmstead co., —A post-village and township of Stearns co., on Clear Water river, about 22 miles W. of Monticello.

Fair Haven, in New York, a post-village of Cayuga co., on Lake Ontario.

Pair Havem, in New York, a post-village of Cayuga co, on Lake Ontario.

Pair Havem, in Ohio, a post-village of Preble co., on Four Mile creek, about 40 nilles N.N.W. of Cincinnati.

Pair Havem, in Vermont, a post-town and township of Butland co., about 55 miles S.W. of Montpelier. Pop. (1497) 2.795.

(187) 2.795.

Fair Haven, in Washington, a city of Whatcom co., 4
m. 8. of Whatcom, on Gt. Nor. & Nor. Pac. R.Rs.; has
several lumber and shingle mills, extensive fisheries and
she canneries. Pop. (1890) 4.810.

Fair Hend, or BENMORE HRAD, a lofty promontory on
the N. coast of Ireland, in Ulster co., of Antrim, about
b miles E.N.E. of Bellycastle. It is a huge mass of
columnar greenstone, about 535 feet high.

Fair Hill, in Maryland, a post-village of Cecil co.,
about 8 miles N. of Elkton.

Fair Hill, in West Virginia, a former P. O. of Marshall
county.

Fair ing. a. A present given at a fair.
Fair ish. a. Reasonably or moderately fair.
Fair ishiy, adv. In a tolerably fair manner.

Fair ins. a. Reasonably or moderately fair.
Fair inship, adv. In a tolerably fair manner.
Fair inshe, lies between the Shetland and Orkney Isles.
Enlies from Sumburgh Head. It is 4 miles long by a breath of 2½. Here (1588) the duke of Medina, admin of the Spanish Armada, was shipswrecked.
Fair land, in Historia, a post-office of Douglas co.
Fair land, in Historia, a post-office of Douglas co.
Fair land, in Maryland, a P.O. of Montgomery co.
Fair lee, in Maryland, a P.O. of Montgomery co.
Fair lee, in Maryland, a post-office of Kent co.
Fair lee, in Maryland, a post-office of Kent co.
Fair lee, in Maryland, a post-office of Kent co.
Fair lee, in Maryland, a post-office of Kent co.
Fair lee, in Maryland, a post-office of Kent co.
Fair lee, in Maryland, a post-office of Kent co.
Fair meant, or Fair moner; commodiously; conveniently; without diaguise of fraul; openly; ingenneously; plainly; canddidy; without perversion or violence; without hlots; in plain letters; plainly; legibly; completely; thorroughly; softly; gently.
Fair meant, or Fair moner, in Misseowi, a post-village of Carke co.
Sain Missowi, a post-office of Garke co.
Sain Missowi, a post-office of Garke co.
Fairmeent, in Nebraska, a thriving city of Fillmore co. Sin by rail S.W. of Lincoln. Pop. (1897) abt. 1,850.
Fairmeent, in Islands, a post-office of Gordon co.
Fairmeent, in Islands, a post-office of Jefferson co.
Fairmeent, in Islands, a post-office of Jefferson co.
Fairmeent, in New York, a P.O. of Onondaga co.
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Fairmeent, in New York, a P.O. of Onondaga co.
Fairmeent, in

ship of Richland co.

ount, in Ohio, a village of Miami co.

Fairmount, in Pennsylvania. See Philadelphia

—A village of Lancaster co.

—A township of Luzerne co., about 22 miles W. of Wilkes

FAIR

barre.
Fairmount Springs, in Pennylvania, a post-office of Luzerne co.

of Luzerne co.

Fair'scean, n. Quality of being fair; clearness; freedom from spots or blemishes; whiteness; purity; freedom from stain or blemish; beauty; elegance; frankness; caudor; honesty; ingenuousness; openness; freedom from disguise, insidiousness, or prevarication; equality of terms; equity; distinctiveness; freedom from blots or obscurity.

Fair Caks, in California, a post-office of Secramento

county.

Fair Oaks, in Indiana, a post-office of Jasper co.

Fair Oaks, in Virginia, about 7 miles E. of Richmond

Battle of. See Chickahominy.

Fair'-one, a. A fair woman; a handsome female;

beauty.

Fairplain', in Michigan, a township of Montcalm co.,
about 46 miles N.W. of Lansing.

Fair'-play, a. Equitable conduct; just or liberal
action; justice.

Fair' play, in Arkansa, a post-township of Saline co.

Fairplay, in Culifornia, a post-village of El Dorado
co., about 16 m. S.E. of Placerville.

Fairplay in (Orange a post-towns, capital of Park co.

co., about 16 m. S.E. of Placerville.

Fairplay, in Colorado, a post-town, capital of Park co., about 80 m. S.W. of Denver. Pop. (1897) about 500.

Fairplay, in Georgia, a post-village of Morgan co., about 115 m. W. of Augusta.,

Fair Play, in Illusois, a township of Jefferson co., about 125 m. W. of Morgan co., a township of Green co., on the W. fork of White river, about 75 miles S.W. of Indiagnaphia co., on the W. 10 of Indianapolis.

of Indianapolis.

Fair Play, in Missouri, a post-village of Polk co.

Fair Play, in Ohio, a post-office of Jefferson co.

Fair Play, in Ohio, a post-office of Oconee co

Fair Play, in Wiccomin, a post-village of Grant co.

about 12 miles N.N.W. of Galena.

Fairplay, in Wisconsia, a post-village of Grant co., about 12 miles N.N.W. of Galena.
Fairport, in Indicac, a village of Allen co., on the Maumee river, about 15 miles E. by N. of Fort Wayne.
Fairport, in North Carolina, a post-office in Mucatine co., on the Mississippi river, about 40 miles E.S.E. of Iowa City.
Fairport, in North Carolina, a P. O. of Granville co.
Fairport, or Horse'heads, in New York, a post-village of Chemung co., about 6 miles N.W. of Elmira. See Horsekaas.
Fairport, in Ohio, a village of Lake co., on Lake Erie, about 165 miles N. E. of Columbus.
Fair'spokem. a. Using fair speech; bland; civil; courteous; plausible.
Fair'som, in New Jersey, a post-office of Cumberland co., about 4 miles S. of Bridgeton.
Fairview, in New Jersey, a post-office of Chattooga co.
Fairview, in New Jersey, a post-office of Chattooga co.
Fairview, in Idadama, a post-office of Chattooga co.
Fairview, in Idadama, a post-office of Chattooga co.
Fairview, in Indicas, a post-village and township of Fulton co., about 75 m. N.W. of Springfield.
Fairview, in Isdicac, a township of Fayette county.

—A village of Fayette co., generally called Groves.

—A post-village of Handolph co., on the Mississinewa river, about 75 m. N.E. of Indianapolis.
Fairview, in Iosc, a township of Alamakee county.

—A township of Jasper co.

—A township of Monons co.

—A township of Monons co.

—A township of Shelby co.

—A post-town and township of Jones co., about 4 m. 8.W. of Anamosa.

—A township of Monors co.

—A township of Shelby co.

—A township of Shelby co.

—Fairwiew, in Kentacky, a post-village of Brown co.

Fairwiew, in Kentacky, a post-village of Todd co., about 19 m. 8.W. of Frankfort.

Fairwiew, in Minseota, a P. O. of Concordia parish.

Fairwiew, in Minseota, a township of Lyon county.

Fairwiew, in Misseota, a village of Sarpy co., on the law in the county of the county of

Montgomery co.

Fair'ville, in New York, a post-village of Wayne co., about 30 m. E. of Rochester.

Fair'ville, in Pransylvania, a P.O. of Chester co.
Fair'water, in Wisconsia, a post-village of Fond du
Lac co., about 22 m. W. of Fond du Lac.
Fair'way, a. The mid passage in a short channel;
the navigable part of a river.
Fair'weather, in Alaska, a mountain about 35 m.
N.E. of Cape Fairweather. It is an important land-mark
on the British and American frontier, and is said to be
nearly 15.000 feet high.

on the British and American frontier, and is said to be nearly 15.000 feet high.

Fair Weather, in Illinois, a post-office of Adams co.

Fairweather Island, in Connecticut, at the entrance of Black Rock Harbor. It has a light-house, Lat. 41° 8° 24″ N., Lon. 73° 13′ 30″ W., 45 ft. above the scalevel.

Fair y, n. [Fr. 16e; Ger. fee; Sp. fada; 1t. filla; probably from Lat. fatum, a prophetic declaration, from fa. root of obsolete for, fatus, to speak. In O. Fr., par ferrie significe fatally. Pers. pari, a fairy.] A fay; an imaginary being or spirit, supposed to assume a human form, dance in meadowa, steal infants, and play a variety of pranks: an enchantress.

signiles Intally. Pers. pari, a fairy.] A fay; an imaginary being or spirit, supposed to assume a human form, dance in meadows, steal infants, and play a variety of pranks; an enchantress.

(Myth.) In the traditional mythology of the nations of Western Europe, fairies (the close of the Anglo-Saxons; see ELP) were generally believed to be a kind of intermediate beings, partaking both of the nature of men and spirits, having material bodies, and yet possessed of the power of making themselves invisible, and of passing through any sort of enclosure. They were remarkably small in stature, with fair complexions, and generally clothed in green. Their haunts were believed to be groves, verdant meadows, and the slopes of hills, and their great diversion dancing hand-in-hand in a circle, as mentioned in Midsusmer Night's Dream. The traces of their tiny feet are supposed to remain visible in the grass long afterwards, and are called Pairy Rings or Circles, (q. v.) They were regarded as being sometimes benevolent, and sometimes mischlevous. The diseases of cattle were frequently attributed to their mischlevous operations; and cattle that died anddenly, without any apparent cause, were commently said to be elf-shot. They were said to be very fond of young children, and were in the habit of carrying away such as they could lay hold of, and leave vixens of their own in their room. In Poole's Purnassus are given the names of the fairy court: "Oberon, the emperor: Mab, the empress: Perriviggin, Perriviakle, Puck, Hobgolin, Tomalin, Tom Thumb, courtiers: Hop, Mop, Drop, Pip, Drip, Skip, Tub, Tb, Tick, Pink, Pin, Quick, Gill, Ion, Til, Wap, Wim, Nil, the maids of honor: Nymphidia, the mother of the maids." Croker, in his Fairy Lepada and Traditions of the South of Ireland, describes them as beings "a few inches high, airy, and almost transparent in body: so delicate in their form, that a dewdrop, when threaks. Both sexes are of extraordinary beauty, and mortal beings cannot be compared to them." They live in large societies, and breaks. Both sexes are of extraordinary beauty, and mortal beings cannot be compared to them." They live in large societies, and are governed by a queen; and the peasantry never speak of them but with caution and respect, as the good people and friends, believing them to be present, and to hear what is said. They have their dwellings in clefts of rocks, caves, and ancient tumuli, and every part of them is decorated in the most splendid and gorgeous manner. The popular belief in fairies may be said to have generally died out; but to it we are indebted for a class of literature which, to the young at least, has its ceaseless charms.—The fairy superstition belongs to modern Europe. We find nothing like it among the idolatries of the heathen referred to in Scripture. In classical mythology, there is nothing nearer to it than the nymph of the fountain or grove among the Greeks. The true fairy tales first became popular in the latter part of the 17th century, and the Italians appear to have been the first to take the lead. They afterward became very popular in France; and, at the present, they are more extensive and popular in Germany than in any other country.

Fairy, a. Belonging to fairies; given by fairies.

Fairy, Bings. or CIRCLE 2s. A ring occasionally ob-

Fair'y-land, m. (Myth.) The imaginary land of the fairies.
Fair'y Bing, or CIRCL, n. A ring occasionally observed in pastures, and which was usually attributed by the peasantry of western Europe to the dancing of the fairies. They are seldom of a perfect form, but are usually more or less irregular, sometimes forming a series of arcs of circles. They were ascribed by scientific men to various causes; but they are now known to be occasioned by the growth of certain kinds of fungi, which, proceeding outwards from a centre, render the soil for a time unfitted for the nourishment of grass.

Faisans, (Ile des.) (fair'a) a small island formed by the Bidasca, near Irun, on the borders of France and Spain. In 1659, the treaty of the Pyrenece was here concluded between Spain and France.

Faisans, al. [lat., fides, from fdo, to trust, put confidence in; Fr. foi, faith; Gr. prithô, to persuade, prithomai, to believe or trust in.] That assent or credence which we give to the declaration or promise of another, on the authority of the person who makes it. The greater part of our knowledge is derived from the information of others, and depends upon the credence which we give to their testimony; hence to helieve and to know a contraction of the part of the testimony; hence to helieve and to know a contraction of the testimony; hence to helieve and to know a contraction of the testimony; hence to helieve and to know a contraction of the part of the present and to know a contraction of the testimony; hence to helieve and to know a contraction of the part of the present and the know a contraction of the part of the present and the know are a contraction of the part of the present and the know a contraction of the part of the part of the present and the know and the part of the part

partot our knowledge is derived from the information of others, and depends upon the credence which we give to their testimony; hence, to believe and to know are sometimes used indiscriminately. Faith is the means by which we obtain a knowledge of things which do not come under our own observation. — things not seen; and in this way faith is distinguished from sight. Faith is the distinct of the company of t in this way latte is distinguished from sight. Faith is also distinct from reason, in so far as it deals with matters which we cannot comprehend by our reason; but, at the same time, while we exercise faith, we nust also exercise reason; for it is impossible to exercise an acceptable faith without reason for so exercising it.

basket of fruit in one hand and ears of own in the other, or as holding a turtle-dove; but her usual symbol is two hands clasped together.

Faith'ful, a. Full of faith; having faith, trust, or fidelity; firm in adherence to the truth and to the duties of religion; firmly adhering to duty; of true fidelity; loyal; true to allegiance; constant in the performance of duties or services; trusty; observant of compacta, treaties, contracta, vows, &c: true to one's word: true; exact: true to the marriage-covenant; conformable to truth; constant; worthy of belief.

Faith'fully, adv. In a faithful manner; with good faith.

Faith'fulness, n. Fidelity; cons honesty; veracity; adherence to duty. constancy; loyalty

For there is no faithfulness in your mouth." — Pealm lix. 4. alth less, a. Without belief in the revealed truth Faith less, a. Without belief in the revealed truths of religion. — Perfidious; disloyal; not true to duty, profession, or promise. — Delusive; unsatisfactory; de-

Faith lessly, adv. In a deceptive, false, or perfidious

Faith lessness, n. Unbelief in revealed religion.

Faith lessness, n. Unbelief in revealed religion.

—Perfidy; trewhery; disloyalty.

Violation of promise, or covenant.

Fake, n. [A. S. fegun, to join.] (Naut.) Any one of the circles formed by a cable or rope, as it lies in a coil.

Fakir. (faker.) n. [Ar. fakhar, poor.] A member of an order of mendicants or penitents existing in several parts of the Eastern world, particularly in India, who is synonymous with the Persian and Turkish dreish. Some of them live in communities, while others live singly, as hermits, or wander about, making strange displays of self-torture and mortification. Their appearance is filthy and disgusting in the extreme. They go about naked, frequently with their bodies besmeared with the dung of the holy cow, which excrement they also use for making fires, in lieu of wood. They sometimes unite in hands, carrying banners, and making a also use for making fires, in lieu of wood. They some-times unite in bands, carrying banners, and making a great noise with drums and horns. Some of them hold their arms up in one position for years (see Fig. 340) till they have lost the power of taking them down again: others bend the body forward, till they are unable to re-store it to its natural position again; while others clench their fists till the mails grow through the band, and others are perpetually lying down on beds of spikes (Fig. 985).



- PAKIR ON A BED OF SPIKES. (Kerasis sect.) (From Gould's Oriental Drawings.)

(From Gould's Oriental Drawings.)
They usually take up their abode in shady places, either in the open air or in old and ruinous buildings, without anything to repose on or to cover themselves. One writer affirms that a member of this order should have ten of the qualities proper to the dog: among which are, to be always hungry; to have no fixed residence; to watch during the night: to leave no heritage after his death; not to alsandon his master, although ill-treated by him: to content himself with the lowest place, and to yield his seat to any one who wants it. It is estimated that there are not less than three millions of fakirs in India. Many of them are impostors and apportines, and traverse the country begging and instructing credulous people in religion. It is dangerous both to his life and money for an unarmed person to meet them.

meet them.

Falcade', n. [Fr., from Lat. falz, a sickle.] (Man.) A horse is said to make falcades when he throws himself upon his haunches two or three times in quick curvets.

Pal'cate, or Fal'cated, p. a. [Lat. falcatus, from falz, a sickle.] (Bot. and Zool.) Bent like a scythe; hooked; curved.



Fig. 986. — CASTLE OF PALAISE.

Falca'tion n. Crookedness; a form like that of a 's book.

reaper's hook.

Falchion. (fawithon.) s. [Fr. fauchon; Lat. falco and falcio, from falx, a sickle.] A scimitar; a short, crooked sword.

Old falchions are new tempered in the fires.

"Old falchions are new tempered in the fires." — Dryden.

Fal'ciforms. a. [Lat. falr., a sickle, and forma, shape.]

Having the shape of a reaping-book.

Falcon., (Sawkm.) n. [Fr. faucon; Sp. halcon; Lat. falco, from falr. a sickle. Compare Ger. falle, A. 8. salco., and Gr. phallon.] The common name of the genus Falco, or sub-family Fulconing, family Fulconidge, including the true Falcons, or those species of diurnal birds of prey, which, in the language of falconry, were styled solle birds of prey. They are characterized by a bill curved from the base, the upper mandible booked at the point, and the cutting educ of the upper mandible furnished with a strong projecting notch, or tooth. The claws are also sharp, curved, and strong; and in accordance with all this powerful armature, the whole frame is very robust and muscular. The legs are rather short, and have great power in striking or seizing prey. The keel of the sternum (breast-bone) is very large, and short, and have great power in striking or seizing prey. The keel of the sternum (breast-bone) is very large, and adapted for the attachment of powerful muscles; the furcula and coracold bones are also very strong, so as to afford a smiffcient resisting buse for very powerful action of the wings. The wings are long and pointed, the first and third quill-feathers of equal length, the second rather the longest, the first and second quill-feathers emarginated near the tip. The true falcons are bolder in proportion to their size than any other Falconids—even earles. Their acuteness of vision is wonderful; and they have very great powers of flight.



Fig. 987. - THE GERFALCON.

A F. is known to have traversed the distance between Fontainebleau and Malta, not less than 1,350 miles, in 24 hours; and as these birds do not usually fly during the night, its flight was probably at the rate of 70 or 80 miles an hour. They soar to a prodigious height in the air, always endeavoring to outsoar any bird of which they may be in pursuit, and to swoop down upon it from above; although it is far more difficult for them to rise vertically in a calm atmosphere than for birds of short and rounded wing. Thus, they either rise obliquely—often also making their onward flight in a series of arcs—or avail themselves of the wind, and by flying against it, are borne aloft as a boy's kite is. The species are pretty numerous: some of them are of very wide geographic distribution, while others are peculiar to certain coun-A F is known to have traversed the distance between

tries or climates. The American species are the Principile F. q. v. (Fulco pergrinus), of which the female is, par excellence, the F. of falconers (see Hwelling); the Black-headed F. (F. nigriceps), closely related to the preceding; the Probon Hawk, q. v. (F. columianus); the Orango-breasted Hawk (F. aurantius, of Texas and S. America, somewhat smaller than the preceding: the Prainie F., q. v. (F. polyagrus); the Gerfalcox, q. v. (F. candicass and icclandicus).

(Gun.) A sort of ancient cannon, seven feet long, taking a load of two and a quarter pounds of powder, and throwing a ball of two and a half pounds weight.

Falconer, (fawl'nur,) n. [Fr. faucomistr.] A person who breeds or trains hawks for taking wild-fowt.—One who follows the sport of fowling with hawks.

Fal'comet. n. [Fr., from L. Lat. falconeta, a young falcon.] (Gun.) A small cannon anciently used, somewhat smaller than the falcon.—See Falcox.

Fal'comegem'til, n. [Fr.] (Howking.) A falcon, when full-feathered and completely bred, or trained.

Falcon'idee, n. pl. (Zoll.) The Falcons, a family of birds belonging to the ord. Acceptives or Raptores. These birds of prey have the head covered with feathers, and the eveloway prominent, ziving the eye the appearance

birds of prey have the head covered with feathers, and the eyebrows prominent, giving the eye the appearance of being deep in the head. The leak is strong and hooked, and the claws or talons very sharp, strong, much incurved, and retractile. The species are numer-ous, and the family is divided into several sub-families or genera, described in this work under the heads Accur-

TRINE, the Spar-row-hawks; AQUI-LINE, the Eagles; FALCON (falcon-ina), the true Falcons: Buteo (bu-teonids), the Buz-zards; Astur, the Goshawks; Mil-VINE, the Kites CIECUS (circine) the Harriers; and POLYBORUS ( poly-borine), the Cara-

Falconi'næ,

Falconi'ms, s. pl. (2061.) A subfamily of birda,
corresponding to
the genus falco.—
See FALCON.
Fal'comry, s.
[Ital. falconeria;
Fr. fauconneria,
from Lat. falco,
a hawk.] See
HAWKING. HAWKING. Fald'stool. W. HEAD AND POOT OF BRASILIAN EAGLE

to fold up after the manner of a camp-tool, placed within the choir for the bishop, when not officiating in his own cathedral.

[A. S. feald, fold, and stool, a chair or seat.] (Eccl.) A portable seat, made

Fig. 989

The stool on which the kings of England kneel at their

coronation.

Falle'ine, a river of W. Africa, joining the Senegal, after a course of 200 m., in Lat. 14° 40' N. Lon. 11° 48'.

Faller'miam Wime, one of the favorite wines of the Romans, was so called from Fulrms Ager., the district in which it was grown, and which lay at the N. part of Campania, between the Massican Hills and the N. bank of the Vulturnus. It is described by Horace as, in his time, surpassing all other wines then in repute, and seems to have been in great favor with the part himself. In the time of Pilny, however, as he himself informs us, Falernian wine had already, owing to a want of care in its cultivation begun to decline in quality:

informs us, Falernian wine had already, owing to a want of care in its cultivation, begun to decline in quality; and the wine then esteemed the best was a variety grown in the Falernian neighborhood, and called Flustianum. Fallero, Marino, (faleairo,) a Venetian noble, succeeded Andrew Dandolo as doge of Venice, in 1354. He had previously commanded the troops of the republic at the siege of Zara, in Dalmatia, where he gained a brilliant victory over the king of Hungary; and was afterwards ambassador to Genoa and Rome. When he succeeded to the office of doge, he was 76 years of age, and had a young and beautiful wife. Jealous of Michael Steno, he quarrelled with and was insulted by him at a masquerade; but Steno being sentenced to no more Steno, he quarrelled with and was insulted by him at a masquerade; but Steno being sentenced to no more than a month's imprisonment for his offence. Faliero, burning with revenge, entered into a conspiracy with the plebeins to overturn the government and massacre the patricians. On the night before it was to be carried into effect, the plot was discovered, and Faliero suffered decapitation, April 17, 1355. His character is delineated with historical truth by Lord Byron, in one of his noblest transition.

rragenes.
\*\*Bis'ci, a people of Etruria, said to have been originally a Macedonian colony. When they were besieved by Camillus, a schoolmaster went out at the gates of the

Digitized by GOGIG

lingshire, 21 m. from Edinburgh. Three fairs, the great-

lingshire, 21 m. from Edinburgh. Three fairs, the greatest in Scotland, are held here, under the name of the Trysts of Full-tirk. These fairs are exclusively for cattle, sheep, and horses; and not less than 300,000 head of cattle and slively are annually exposed for mile at them, now superceised by weekly auctions. Pop. 1890, 18,500.—Here Wallace was defeated by Edward I.; and the noval army by the adherents of the house of Stuart, 1746. Faik Tandl., fauk/land, Lucius Can, Viscount, an English p-litician and man of letters, B. at Burford, Oxfordshire, 1610. He was educated at Trinity Coll., Dublin, and at Cambridge; and on inheriting a large fortune, married, and in happy retirement devoted himself to earnest study, enjoying the society of Selden, Chillingworth, and other eminent men. In 1839 he accompanied the expedition to Scotland, and in the following year entered parliament. On the trial of Strafford he interposed in behalf of moderation and delay. His purity and sensitiveness of character made him incapable of being a partisan, and also unfitted him for action in such stormy parliament. On this train of Strainton he interposed in behalf of moderation and delay. His purity and sensitiveness of character made him incapable of being a partisan, and also unfitted him for action in such stormy times. In 1641 the king succeeded, through the agency of Clarendon, in attaching F. to the royal cause, and made him secretary of state. But F. distrusted the king and despised the court; and the king feared him. Though he thenceforth attended the king, his sympathies were on the side of freedom, and the distractions and calamities of his country broke his heart. He fell early in the day at the first battle of Newbury, Sept. 20, 1643, according to his presentiment, and his body was found on the following day.

Falk land, in N. Curviina, a post-village of Pitt co., on the Tar River, abt. 70 m. R. by S. of Raleigh.

Falk land Islem, two large islands, with a number or realler once surrounding them, situate in the Southern Atlantic Ocean. Lat. between 51° and 52° 3M' S., Lon. between 57° 4M' and 61° 20 W.—These islands were discovered by Davis in 1592, and came into the possession of the British in 1771. Their appropriation has been at times disputed; but since 1833 the British have beld uninterrupted occupancy of them. Capital, Stauley. Area, 4,741 eq. m. Population (1891) 1,789, consisting mostly of Buenos-Ayrean colonists.

Falk mer's or Faulk mer's Island, in Coma, a light-louse of Guilford Harbor; Lat. 470 12° 40" N., Lon. 72° 28' 54" W. It has a flashing light and a fog-bell.

Fall, (fact.) e. m. (imp. Fill.; pp. FALLEN.) [A. S. faller, i Ger. fallers, Lat. falle, Sansk. phal, to fly apart. See Fall.] To drop from a higher to a lower place; to descend by the weight or by the power of gravity alone; as, a falles leaf. — To tumble down; to drop prone from an erect to a prostrate condition.

"Seal 'Mal al along on the earth."—1 Sem. xxviii. 20.

rect to a prostrate condition.

"Sasi fell all along on the earth." — 1 Sam. xxviii. 20.

To flow out of its channel into a pond, lake, or sea, as a river; to pass at the outlet; to discharge into a basin; to disembogue; as, the Mississippi falls into the Mexican

To depart from the ways of innocence: to transgr to sin; to err; to lapse; to apostatize; to depart from the faith or from rectitude.

"Cromwell . . . fling away ambition: By that sin fell the angels." — Sha

-To die, particularly by violence; to perish; as, he fell in

battle.

To sink into disrepute or disgrace; to decline; to be plunged into misery; to be given up, overthrown, or ruined; to be lowered in the estimation of others; as, "a poor, weak woman fall n from favour." (Shaks.) — To decline from violence or intensity to calmness or remission; as, the breeze falls away.

"Her fury fell, her feaming ceas d."—Dryden.

To sink; to become lowered; us, the barometer is falling. -To decrease in value; to become less in demand or price; as, gold has fallen to 120.

"Beats will fall, and incomes every day lessen." — Locks.

-To pass into a new state of body or mind; to become: to enter upon a new phase of sensation or thought; as, to full in love, to full sick.

"Be died with all the estinces of a man falling saleop." Atterbury.

-To sink into an air of dejection, discontent, anger, sorrow, or shame.

"I have observed of late thy looks are fallen." - Addison. -To happen; to befall; to come to pass; to light on; to v chance

I'm grieved, my friend, the chance should full on you." Dryden

Fall, v. a. To drop; to let fall. "Do you the like, to fall it on Gonzale." — Shaks.

To sink; to lower; to depress; to abase; —in contradistinction to ruise.

"Upon lessening interest to four per cent., you fall the price of our native commodities." — Locks.

-To yearn; to bring forth, as lambs.

'They then conceiving, did in yearning-time Fall parti-coloured lambs." — Shaks.

To pass or be transferred by chance, lot, distribution, in-heritance, or otherwise; — with on, to, or upon; as, the estate fell to him.

'If so her share some female errors fall, Look on her face, and you'll forget them all."

-To issue; to terminate; to end; to prove in the result; a. "As the matter falls." — Shaks.

To be dropped, or uttered, as words, by chance, carelessness, or imprudence; as, he let fall enough to betray

To ebb; to become shallower; as, the river has fallen two feet

To fall aboard of. (Naut.) To run foul of; to come into contact or collision with;—said of one ressel in connection with another.—To fall astern. (Naut.) To be left behind by another vessel; to be driven back

with the stern foremost; as, our consort fell gradually astern.— To full away. To grow lean; to become thinner or reduced in fiesh; as, he has fallen away into nothing.—To backslide from allegiance, dury, or religion; to apostatise; to depart from truth, honor, or virtue. "These for a while believe, and in time of temptation fall away." (Luke viii. 13.)—To perish; to be lost.— To fall back. To recede; to retreat; to give way. "We have often fallen back from our resolutions." (Taylor.)—To fall caim. (Naut.) To cease blowing, as the wind; as, it has fallen a dead calm.—To fall down. (Naut.) To drop down a river or extuary with the ebbtide.—To prestrate one's self in an attitude of prayer or adoration. "All kings shall fall down before him. (Palms Ixxii 11.)—To fall foul. To make an onslaught or attack upon. "I fell foul of the rogue and battered him heartily." (D'Urfey.)—(Naut.) To come into contact or collision with; as, to fall foul of an enemy's ship, and carry her by boarding.—To fall from. To rout; to depart from adherence. "The emperor fell by degrees from the king of England." (Huyword.)—To fall home. (Naut.) To form an inward curvature, as the bends and timbers of a ship.—To fall in. To concur; with the stern foremost; as, our consort fell gradually | Falla ciousness, s. Tendency to deceive, or misorgices from the king of England. (Tadysert.)—To fall home. (Naut.) To form an inward curvature, as the bends and timbers of a ship.—To fall in. To concur; to meet. "Objections fall in here, and are the most convincing arguments of the truth." (Woodward.)—To sink; to subside; as, the foundations of the building fell in with. To colucide; to agree with; as, I readily fell in with his views.—To comply with: to acquiesce; to yield to. "Any single paper that falls in with the popular taste, brings one in a number of letters." (Addison.)—(Naut.) To discover; to sight; as, before night the ship fell in with the land.—To fall of. To separate or break from; as, "friendship falls of!" (Shaks.)—To fall on, or upon. To attack; to make an onslaught; to assault. "Draw all; and when I give the word, fall or. (Edipus.)—To fall over. To revolt; to desert, or change sides. "And dost thou now fall over to my foee!" (Shaks.)—To fall out. To quarrel; to become antugonistic; to jar; (Canpus.)—10 full over. To revoir, to desert, or change sides. "And dost thou now fall over to my foes?" (Shaks.)

—To fall out. To quarrel; to become antagonistic; to jar; to grow contentious. "I did upbraid her and fall out with her." (Shaks.)—To happen; to befall; to come to pass. "Who think yon is my Doris fallen out to be?" (Sidney.)

—Th fall short. To become deficient; to fail in anything; - In Justian 1. To become delicters: to fail may failing as, the copy falls short of the original, I fell short of cash, &c. — To fall to. To begin; to apply one's self to; to commence; to set about. "My lady falls to play." (Pope.) — To transfer silegiance to; to submit to. — To fall under. To be ranged with; to be reckoned with; as, greenbacks fall under the head of money. — To be subsett to the self-cash of ect; to become the subject of; as, the matter fell under

FALL

Sect; to become the supposed, ..., ..., his notice.

Fall, m. [Icel. fall.] Act of falling or dropping, or descending from a higher to a lower place by gravity; descent; as, the full of a piece of rock.—Act of dropping or tumbling from an erect to a prostrate posture; a tumble; as, a full down-stairs.—Death; destruction; overthrow; ruin.

The state of the supposed of the supposed

Downfull; degradation; declension of greatness, power, or dominion; as, the fall of the Roman empire.

Declension or departure from goodness or innocence, from faith or duty; lapse; transgression; apostasy; the act of our first parents in eating the forbidden fruit; also, the apostasy of the rebellious angels.

"This revolt of thine is like another fall of man." - Shake.

A sheer descent of water; a cataract; a cascade; a waterfall; as, the Fulls of Niagara.—Extent of descent

A sheer descent of water; a cataract; a cascade; a waterfall; as, the Fulls of Nisgara. — Extent of descent; distance which anything traverses in the act of falling; as, there was a fall of two hundred feet of water.

—Act of sinking, or experiencing sensible depression; as, the fall of the barometer. — Outlet, disemboguement, or discharge of a river or current of water into the ocean, or into a lake or pond; as, the fall of the Potomac into the Atlantic. — Declination of sound; a sinking of tone; cadence; as, the fall of the voice. — Diminution; decline; decrease of price or value; depreciation in worth; as, a fall in the money-market, a fall in public securities. —Act of felling or cutting down; as, a fall of timber. —A slope, declivity, or abrupt descent; as, there the ground had a sudden fall. — Chance; fortune; accident; hap; as, whatever fall may fall." — Shake.

Mull is one of those general words of which it is very difficult to ascertain or detail the full signification. It retains in most of its senses some part of its primitive meaning, and implies, either literally or figuratively, descent, violence, or suddenness. In many of its senses it is opposed to rise; but in others has no counterpart or correlative.

or correlative.

or correlative.

An article of female attire; as, the fall of a bonnet.—

A snare or trap for game and other animals. — In Scotland, a land-measure of six ells, or the fortieth part of a rood. — (Naul.) That part of a rope or tackle to which motive power is applied in hoisting a sail, block, yard, &c.; as, a cattackle fall.

Autum; the seuson of the fall of the leaf; the time of year when leaves drop from the trees.

"Latt of the Access and the article bills". — Powder

"Last fall (the doctor) raised the weekly bills." (In this sense the word fall is peculiar to the U. States and Canada; the term Autumn being almost invariably used in England.)

-A falling; anything that descends in great quantities

as, a heavy fall of rain.

Falla'cious, a. [Fr. fallacieux, from Lat. fallacious.

—fallaci, fallax, from fallere, to deceive. See Fallact.] —fallaci, fallaz, from fallere, to deceive. See Fallaci. Deceivini; deceptive; wearing a false appearance producing error, or mistake; misleading; sophistical not well founded; producing disappointment; mocking expectation; delusive; illusive; false.
Fallacicionsity, adv. In a delusive or false manner; conclusivaline.

lead: inconclusiveness.

Fal'incy, n. [Lat fullacia.] Deceptive or false appearance; deceitfulness; that which misleads the eye or the mind.

(Logic and Rhet.) Any argument or apparent argu-(Diffe and Met.) Any argument or apparent argu-ment which professes to be decisive of the matter at issue, while in reality it is not. Fallacies have been divided into those in dictione, in the words; and extra dictionem, in the matter. The latter of these it is not the province of logic to discover and refute; they being strictly, instances in which the conclusion follows from strictly, instances in which the conclusion follows from the premises, and which therefore depend on the un-soundness of these premises themselves, which can only be detected by a knowledge of the subject-matter of the argument. Logical fallacies, or fallacies in dic-tione, are those in which the conclusion appears to fol-low, but in reality does not, from the premises; and which, consequently, can be detected by one unlearned in the subject-matter of the argument but acquainted which, consequently, can be detected by one unlearned in the subject-matter of the argument, but acquainted with the rules of logic. These are subdivided, however, into fallacies purely legical, i. e., vicious syllogisms,—(see Syllogism, and Paralogism,)—and fallacies semilogical, those, namely, which arise from the employment of a middle term in argument (see Syllogism, Proposition, and Middle Term) ambignous in sense.—In Rhetoric, a common set of artifices, by which the mind of the reader or heaver is diverted from the question at issue, and fixed on some collateral tonic are tion at issue, and fixed on some collateral topic, are termed fallacies; as where the character of the pro-poser of a measure is discussed as a reason for or against the measure itself, &c., &c.

Fall Branch, in Tennessee, a post-village of Washing-

ton co. Fall Brook. in Pennsylvania, a post-borough of Tioga

co. Pop. (1897) about 1,000.

Fall City, or Falls City, in Wisconsin, a post-village of Dunn co., about 15 m. N.E. of Dunnville. Fall City, in Wisconsin, a village of Marathon co., on

the Wisconsin river.

Fall Creek, in Illinois, a flourishing post-township of

Fail Creek, in Indiana, a township of Hamilton

-A township of Henry co.

—A township of Henry co.

—A township of Malison co.

Pall Creek, in Indiana, enters the W. Fork of White river from Marion co.

Fall'en, p. v. Dropped; descended; degraded; decreased; ruined.

Fallem Timber, in Pennsylvania, a post-office of Cambria co.

Fall'er, n. One who drops, or falls.

Fallien ity, n. [Fr. failibilité, from Lat. fallere, to deceive.] Possibility of being erroneous; liableness to err in one's judgment; tendency to be deceived; uncertainty; frailty.

er in one's judgment; tendency to be deceived; uncertainty; frailty.

Fal'lible, a. [Pr. faillible, from Lat. fallibilis.] Liable to error; that may be deceived in judgment; that may deceive; as, "a fallible symptom".—Johnson.

Fal'libly, adv. In a manner liable to error, or mistake.

Fall'ling, p. a. Descending; dropping; disembeguing; apostatizing; declining; decreasing; sinking; coming.

—n. Indentation, as opposed to prominence; often with in.

The various prominences and fallings in of the features." Addison.

Fall'ing home. (Naut.) A term applied to the timbers or upper parts of the sides of a ship when they curve inwards. The old class of ships fall home much more than the modern ones, which approach more nearly to being wall-sided. Fail'ing River, in Virginia, enters the Staunton or

Rosnoke River from Campbell co.

Fall'ing-sick'ness, n. (Mcd.) A disease in which
the patient is, without warning, deprived at once of his
senses and falls down; EPILEPSY, q. v.

" He bath the falling-sickness." - Shaks.

"He hath the falling-sickness."—Shabt.

Falling Stars, n. pl. Evanescent meteors which dart across the sky in all directions at night, vanishing after a flight of short duration, during which they seem to draw a brilliant train of light behind them. To the observer they resemble stars suddenly falling from their positions in the heavens, whence the name F.S. They generally appear singly, but sometimes in great numbers, resembling a shower of fire. During ordinary nights the number of F.S. observed in an hour's time is from 4 to 8: but at two periods of the year, about the pers, resembning a smower of ince. During ordinary nights the number of F. S. observed in an hour's time is from 4 to 8; but at two periods of the year, about the 10th of Aug. and the 12th of Nov., they are much more numerous. The Nov. shower is generally much more brilliant than that in Aug., and at intervals of about 33 years it is of extraordinary interest and splendor. Remarkable showers were observed on the 12th of Nov., 1799 and 1833, and on the 13th of Nov., 1866,—that of 1833, especially, being the most magnificent of any on record. The F. S. of the Nov. showers generally radiate in all directions from a point in the constellation Leo, and those of the Aug. showers from a point in the constellation Perseus. It has been held by some astronomers that myrisds of these bodies are collected in several rings around the sun, around which they circulate like the larger planets, and that when the earth passes through or near one of these rings, her attraction causes them either to revolve around heras permanent satellites, or to be arrested in their motion by her atmosphere, and converted into heat and light, they become visible to us, and perhaps fall to the ground as meteoric stones and aërolites (q. v.). Sir John Herschel advanced the theory and perhaps fall to the ground as meteoric stones and aërolites (q,v). Sir John Herschel advanced the theory that showers of F. S. are the light caused by the collision of the earth's atmosphere with the tenuous substance of a comet. See Star Showers.

Falling-stone, s. A meteorite; an Arroure (q. v.).

Fall'ing We'ter, in Tena., a P. O. of Hamilton co.
Falling Water Creek, in Tenaence, enters the
Cancy fork of Cumberland river from White or
Fall'ing We'ters, in West Virginia, a past village of
Berkeley co., on the Potomac River, about 188 m. N. by
W. of Richmond. Here, July 1, 1861, an indecisive
skirmish took place between the National and Confed-

erate troops.

Fall of Bodies. The motion of any body projecting rall of Hodies. The motion of any body projecting through the air in a horizontal or oblique direction, and the path it describes, are considered under the head of Projectiles, (q. v.). In this article we shall examine the rate of motion of a body moving toward or from the earth in a vertical line. The effect of gravity is to uniformly accelerate the motion of a body moving toward the centre of the earth, and to uniformly diminish that of a body moving upward, or from the centre of the earth. By experiments with Artwood's MACHINE (q. v.) it has been shown that the rate nor accound at which bodies body moving upwari, or from the centre of the earth.

By experiments with Artwood's Machine (q. v.) it has been shown that the rate per second at which bodies acquire velocity if moving downward, or lose velocity if moving upwarit, is 32% feet. This velocity acquired by a falling body, in a second of time, is called the measure of the accelerating force. Therefore, if a body be dropped from the top of a high tower, it is moving at the rate of 32% feet at the end of the first second, 44% feet at the end of the next second, 96% feet at the end of the first second, or the measure of the scelerating force, by the number of seconds during which it has been falling. The velocity of a body at any period of its fall being known, the distance it has fallen may be found by multiplying the velocity at the special being known, the distance it has fallen may be found by multiplying the velocity at that period, by the number of seconds of its fall being known, the distance it has fallen may be found by multiplying the velocity at that period, by the number of seconds it has been falling, and dividing the result by 2. Thus if a body has been falling 5 seconds, its velocity at the end of the space through \$22\% \times 5 = 100\frac{3}{5}\$ feet per second, and the space through  $82\frac{1}{6} \times 5 = 160\frac{5}{2}$  feet per second, and the space through which it has fallen will be  $160\frac{5}{8} \times 5 \stackrel{...}{...} 2 = 402\frac{1}{2}$  feet. which it has fallen will be  $100 \text{g} \times 5 \stackrel{\leftrightarrow}{\leftrightarrow} 2 = 402_{1/2}$  feet. If, instead of falling from a state of rest, a body be impelled downward with a given velocity, its velocity at any period in its course will be found by adding the rate of motion it would have attained by the action of gravity alone, to the initial velocity imparted to it. Thus, in the example above given, if the body had been thrown downward with an initial velocity of 50 feet per second, its rate of motion at the end of the fifth second would be  $160\frac{5}{6} + 50 = 210\frac{5}{6}$  feet; and the space through which it would have fallen would be  $50 \times 5 + 402$ , = 65<sup>2</sup>1<sup>3</sup> feet. If a body be thrown upward into the air, its velocity will diminish at the rate of 32½ feet per second until the force with which it was propelled upward is counteracted and destroyed by the action of ward is counteracted and destroyed by the action of gravity, which acts upon it as a constantly retarding force. The body will seem to remain stationary for an instant and then descond, increasing in velocity at the same rate as a body allowed to fall from the same height from a state of rest. All bodies, of whatever form, size, or substance, fall with equal rapidity when unimpeded by the air, the different velocities of falling bodies having been found by experiment to be owing entirely to the action of the sir upon them.

Fallo'plam Tube, n. [From Fullopius, its discovere.] (Anat.) A canal or tube, arising at each side of the fundur of the utrus, and terminating in the ovarium.

Fallo'plam, Gassiell, a celebrated Italian anatomist.

due of the uterus, and terminating in the ovarium. Fallo pium, Gabrist, a celebrated Italian anatomist, professor at Pisa and Modeun, a. 1523. He was the first to give exact descriptions of the organ of hearing, of the organization of the feetus, and of the tubes of the uterus, since called by his name. D. 1502.
Fallow, a. [A.S. fallo, fullu, falses; Ger. falls; It. fulbs; Fr. fuure, from Lat. fulrus, deep or reddish yellow, tawny.] Pale red or pale yellow; yellowish.—Ploughed, but not sowed; unsowed; left to rest after a very or more of tillage; left unnowed after ploughing:

or more of tillage; lett unsowed after ploughing; year or more uncultivated.

"Shall the cause of saints lie fallow?"-Hudib

(Agric.) Lands are said to be under fallow when -a. (Agric.) Lands are said to be under fallow when under cultivation, whether with or without a crop. A naked fallow is one in which the soil remains a whole year without any crop whatever; and a turnip or green corp fullow is one in which the lands, after being without a crop from larvest till the beginning of the following summer, and being properly labored during that period, are sown with turnips or other similar crops in rows, and the ground cultivated in the intervals. Fallowing was practised by the Romans on all soils, and has been continued through the dark ages, in all the cultivated parts of Europe. so as to have become, till lately. tivated parts of Europe, so as to have become, till lately a general habit in the treatment of arable lands. The a general habit in the treatment of arable lands. The practice of taking two corn crops, and then allowing the land to rest or lie fallow, was till the commencement of the present century prevalent throughout Europe; but it appears to be now broken through in any well-cultivated country. Bure fallows, under the most improved systems of agriculture, are no longer had recourse to in the case of free or easily worked soils, where course to in the case of free or easily worked soils, where turnip fallows are made, or drill crops of legumes are substituted; but in very strong clays they are still found necessary, and this will probably continue to be the case till by thorough drainage, and perhaps steam-culture, the strong clays become friable and fit for the drill husbandry, like the sandy loams and other free soils.

Fallow-crop, n. Same as Fallow-rice, q. v.

Fallow-crop, n. The crop produced from fallow land.

Pallow-deer, n. [A. S. falence, pale yellow.] (Zoil.)

See DEER.

Fallow-finch, n. (Zott.) See MOTAGILLA. Pal'lowfield, in Pennylvania, a post-township of

Fallowfield, in Pennsylvania, a township of Wash-

ington co.

Fal'iowist, n. (Agric.) One who practises the system of fallowing land.

Fail River, in Iowa, enters the Makoqueta River from

Jackson co.

Fail River, in Massachusetts, a city and port of entry of Bristol co., at the mouth of Taunton River, about 53 m. S.S.W. of Boston. The city is well laid out and contains numerous fine and substantial edifices. It has long been noted for its extensive manufactures, particularly. long been noted for its extensive manunctures, particularly of callco, oil-cloths, cotton batting, machinery, &c.

Its commerce is als extensive. Pop. (1-95) '9 293.

Fall Eiver, in Wizomers, a post-village of Columbia co, on Crawfish River, about 22 m. N.E. of Madison.

Falls, in Josea, a township of Cerro Gordo co.

Falls, in Ohio, a township of Mocking co.

A township of Muskingum co.

Falls, in Fennsylvania, a flourishing township of Bucks

—A post-township of Wyoming co.

Falls, in Texas, an E. central co.; area, about 950 sq. m.
Rivers. Brazos River, and Elm and Big Creeks. Cop.
Marlin.

Falls Bridge, in Connecticut. a village of Litchfield co., about 30 m. N.W. by W. of Hartford.
Falls'burgh, or Ful'Lasucau, in Michigan, a village of Kent co., on Flat River, abt. 22 m. E. of Grand Rapids.
Falls'burgh, in New York, a post-village and township of Sullivan co., about 95 m. S.S.W. of the city of Albany.

Albany. Falls'burgh, iu Ohio, a post-township of Licking

A post-village of Licking co., abt. 16 m. N.E. of Newark.

Falis Church, in Virginia, a post-village of Fairfax
co., abt. 10 m. W. of Washington, D. C.

co., abt. 10 m. W. of Washington, D. C.
Falls City, in Nebraska, a post-town, cap. of Richardson co., abt. 2 m. N. of Nemaha.
Fall'sington, in Pensylvania, a post-borough of Bucks co., abt. 25 m. E.N.E. of Philadelphia.
Falls Mills, in W. Virginia, a P. O. of Lincoln co.
Falls of Blains, in Kentucky, a P. O. of Lawrence co.
Falls of Salmon River. Sec Orwell.
Palls of Schuylklia, (skool'kill.) See PHILADELPHIA.
Falls of St. Croix, in Wisconsin. See Saint Croix
Falls of St. Croix, in Wisconsin.

Falls'ton, in Maryland, a post-office of Harford co. Falls'ton in Pennsylvania, a borough of Beaver co.

Falls'tom, in Pannyleania, a borough of Beaver co., abt. 30 m. N.W. of Pittaburg.
Falls'towm, in North Carolina, a village of Iredell co., abt. 135 m. W. of Raleigh.
Fails VIIIage, in Connecticut, a post-village of Litch-field co., abt. 46 m. W.N.W. of Hartford.

Fal'mouth, a seaport-town of England, co. Cornwall, at the mouth of the river Fal, 11 m. from Truro. It has a good harbor, and a flue and spacious roadstead. There a good harbor, and a fine and spacious readstead. There are two castles on the coast, one of which, Pendennis, commands the entrance of the harbor; and the other, on the opposite side, is St. Mawes Castle. The town derives its chief importance from being a station of the packet-boats carrying foreign mails. Pop. 9,078. Lat. 50° 9' N., Lou. 5° 4' W.
Fal'mouth, a seaport-town of Antigua, British W. Indies. It has a fine harbor defended by 2 forts.
Fal'mouth, a seaport-town of Januaica, British W. Indies; Lat. 18° 30' N., Lon. 77° 40' W.
Fal'mouth, a seaport-town of Nova Scotia, on an arm of Mines Bay, abt. 30 m. N.N.W. of Halliax.
Fal'mouth, in Indiana, a post-village of Fayette co., abt. 50 m. E. of Indianapolis.
Fal'mouth, in Kentucky, a post-village, cap. of Pendieton co., on Licking River, abt. 60 m. N.E. of Frankfort.
Fal'mouth, in Maine, a post-village and township of Cumberland co., on Casco Bay, abt. 6 m. W.S.W. of Portland.

land.

Fal'mouth, in Massachusetts, a post-vill. and township of Barustable co., on Vineyard Sound and Buzzard's Bay, abt. 70 m. S.S.E. of Boston.

abt. 70 m. S.S.E. of Boston.

Fal'mouth, in Missouri, a village of Lincoln co., on the Mississippi River, abt. 18 m. N.E. of Troy.

Fal'mouth, in Pinnsylvania, a post-village of Lancaster co., on the Susquehunua River, abt. 13 m. S.E. of Harrisburg.

Fal'mouth, in Virginia, a post-village of Stafford co., on the Rappaliannock River, abt. 65 m. N. of Richmond.

False, a. [Lel. Jaistr; falsa, to deceive; fals, pride, deceit; Lat. Jaisus, from fallo, to deceive, from fallo, to morally true; without veracity; expressing that which is not thought or felt, with a tendency to deceive; dishonest; not just; as, a false prophet.

"There are false winesses among men." — L'Estronge.

There are false witnesses among men." - L'Estrange.

Deceptive; pretended; feigned; counterpart; spurious; not real or genuine; as, false tears, false jewelry, &c. Treacherous; perfidious; traitorous; deceitful; unfaithful; inconstant; calculated to delude and disappoint; as, a false friend, a false statement, false play.

" False of heart, light of ear, bloody of hand." - Shake.

Not true; not conformable to fact; not well founded: unfounded; not according to the lawful standard; erroneous; supposititious; not solid or sound; not agreeable to rule or propriety; as, a false claim, a false account.

"Now, fie upon my false French; by mine honour, in true English, I love thee, Kate." — Skake.

(Mus.) Not in tune; not according to the rules of harmony; as, a false note.—Filse codence, an imperfect cadence; a codence wherein the bass rises a tone or semi-tone, instead of rising a fourth or failing a fifth.

Fulse fire. (Naval.) A combustible preparation used on board of vessels of war for night-signals.— Julse impresentation. (Law.) Any unlawful restraint of a man's liberty, whether in a place made use of for imprisonment generally, or in one used only on the particular occasion. Fulse keel. (Naul.) The exterior keel, or that which is beneath the main keel which it serves to protect. Fulse pretences. (Law.) False representations and statements, made with a fraudulent design to obtain "money, goods, wares, and merchandise," with intent to cheat.

ments, made with a fraudulont design to obtain "money, goods, wares, and merchandise," with intent to cheat. At commou law it is a misdemeanor.—Filze rail. (Naut.) A thin piece of timber inside of a carved head-rail. (Ogilote.)—Fulze red. (Paint.) A second red color, which is sometimes put under the first, to make it deeper. Filze roof. (Arch.) The space between the celling and the roof above it, whether the celling be of plaster or a stone vault.—Falze work. (Cir. Eng.) A scafolding erected temporarily during the building of the main structure.

False, adv. Not truly; not honestly; not exactly; falsely

"Thou wouldst not play false,
And yet wouldst wrongly win." - Shake

False'-faced, a. Hypocritical; double-faced.
False'-hearted, a. Deceitful; hollow; treacherous;
perfidious; as, "false-hearted friends and followers."

False'-heartedness, n. Perfidiousness; treachery. False'hood, n. [Pulse, and hood, state, degree, quality.] Quality of being false; contrariety or inconformity to fact or truth; want of truth or veracity; untruth; an untrus

assertion; falsity; fiction; fabrication.
"He practised falsehood under saintly show."

Want of honesty; treachery; deceitfulness; perfidy; as,

betrayed by falsehood.

Counterfeit; imposture; false show or appearance.

False'ly, adv. In a false manner, in a manner contrary to truth and fact; not truly; as, to swent false'n eas, n. Quality of being false; want of interrity and veracity, either of principle or in act; duplicity; deceit; double-dealing; unfaithfulness; treach-

; perfidy. lette, l'alsetto, (fal-set', fal-set'tō.) n. That part of a person's voice which lies above its natural compass, and is produced to various extents in different subjects, male as well as female. It rurely extends more than four or five notes above the natural voice, and is produced by diminishing the aperture of the throat.

Fal'sifiable, a. That may be falsified, counterfeited.

Falsifiable, a. That may be mismed, counteriests, or corrupted.

Falsifications, n. [Fr., from Lat. falsificatio.] Act of counterfeiting or making false: the giving to a thing an appearance of something which it is not; wilful misstatement or misrepresentation; as, the falsification of words.—Confutation; as, detection of falsification.

Falsificator, n. [Fr. falsificateur.] One who falsifies.

Falsification, one who falsifies, counterfeits, or gives to a thing a deceptive appearance; one who makes false coin; one who invents falsehood; a liar; as, "boasters are naturally falsifers."

coin; one who invente manufacture, and part naturally falls fifers."

Fal'sify. c. a. [Fr. falsifier; Lat. falsus, and facto, to make.] To make false; to counterfeit; to forge; as, to

falsify a bank-note.

"Falsifying the balance by decelt."-Amos

-To disprove; to prove to be false; to confute; as, to falsify a prediction.—To violate; to break by falsehood; as, to falsify a trust reposed in.—To elude; to baffle; to escape; as, to falsify a blow.—(Law.) To prove false; as, to falsify a judgment.—In Equity, to prove that an item of account is wrongly churged.

charged.
v. n. To tell lies; to violate the truth; as, "to lie a falsify." **al'sism**, n. An assertion or statement the fallacy or

falsity of which is obvious; - in contradistinctio Fal'aity, n. [L. Lat. falsikas, from falsus—fallo, to deceive.] Quality of being false or without veracity; contrariety or inconformity to truth.

"Can you on him such falcities obtrude?"-Sandas.

"Can you on him such selection obtrude?"—Sandya.

—A lie; a falsehood; a false assertion or position; an, "ensily confutable falsitics."

Fal'ster, one of the Danish islands in the Baltic, separated by narrow straits from Zealand on the N. Moen on the N.E., and Laaland on the W.; Lat. 54° 10° N., Lon. 13° 18; length, N. to 8, 27 m.; breadth, varying from 3 to 14 m. Area, 180 sq. m. Surface, almost entirely flat. F. is the pleasantest of all the Danish islands, is well watered, richly wooded, and so prolific in fruit that it has been called the "orchard of Denmark." Prod. Corn, hemp, hops, cattle, honey, wax, &c. Manuf. Wholly of the domestic kind; some shipbuilding is also carried on. Cup. Nykloping. 14p.28,836.
Fal'ser, v. n. [From O. Fr. Jaulte, a need, a want; Sp. faltar, to fall short, from Lat. fallo; Icel. rollir, frail, perishable.] To be at fault, or to hesitate. fail. or break in the utterance of words; to speak with a broken or trembling utterance; to stammer.

"He changes, gods! and falters at the question."—Smith.

"He changes, gods! and falters at the question."-- Smith

To fall, tremble, or yield in exertion; not to be firm and steady; to totter; as, "he found his legs falter." Wierman.
To fail in the regular play of the ideas or exercise of the understanding; as, "the faltering thoughts of the combined of the state o faculties."-Locke

faculties." — Locke.

Fal'ter, n.a. [Prov. Eng.] To sift; to cleanse; to thresh in the chaff; as, "to falter barley."

Fal'tering, n. Feebleness; deficiency.

Fal'teringly, adv. Hesitatingly; doubtingly; in a faltering manner; with feebleness.

Faltero'ma, (Mount,) a peak of the Apennines, Italy,

1157

25 m. from Florence. The River Arno has its source on its S. side. Height, 5,557 ft. Fal'smack, n. [Ger. fall, a fall, and tran', drink.] (Mea.) A mixture of several aromatic plants, used as a

ry medicine. Palt'si, or Falk'sen, a frontier village of Moldavia

valuerary medicine.

Falf'ab, or Falk'sem, a frontier village of Moldavia, 70 m. from Jassy, where, in 1711, a treaty was concluded between Russia and Turkey.

Fal'um, n. [Fr.] (Geol.) A sories of deposits belonging to the middle tertiary or miocene period, and consisting chiefly of broken shella, quarts, sand, and gravel.

Falum, a town of Sweden. See FARLON.

Cattle-rearing; copper-mining is also extensively carried on. Chief town. Fahlun. Fop. 174,758.

Falum, (fai'ma.) (Myth.) The Roman goddess of fame, rumor, reports, news, or tidings of any sort, whether good or evil. She is represented with a trumpet, either blowing it or holding it in her hand.

Falumasy susta, (fai-ma-good'fai) a seaport-town of the island of Cyprus, 40 m. E. of Nicosia, Lat. 35° 7' 40° N. Lun. 35° 59' E. F. is built on the ruins of the ancient. Arxinoz, and during the Venetian régime it was one of the richest and most populous towns in the Levant. It is now almost in ruins, with its once fine harbor almost above and set in the late of the richest and most populous towns in the Levant. It is now almost in ruins, with its once fine harbor almost above and set in the second of the richest and most populous towns in the Levant. It the richest and most populous towns in the Levant. It is now almost in ruins, with its once fine harbor almost choked up with sand, having declined since its conquest by the Turks in 1571. About 5 m. N.E. are the ruins of Constantia, occupying the site of the ancient Salamis, now called Eski, or Old Famagusta. Guy de Lusignan was here crowned king of Cyprus in 1191. Pop. Unascertained, and mostly Greeks.

Famast'ma, a valley of South America, in the Argentine Republic, bounded E. and W. by the mountain ranges of Volasco and Famatins. It 155 miles long by 30 broad, and contains some "liver mines."

Famast, F. [Fr.: Lat. fama; Gr. phēmē, from phēmē, to speak, from root phaō, to bring to light.] The talk of the multitude; common talk: public report or rumor.

We have beard the fame of him, and all that he did in Egypt."

We have heard the fame of him, and all that he did in Egypt.

Report of good or great actions; report that exalts the character; celebrity; renown; reputation; credit; honor; as, the fame of Washington.

—. a. To report; to talk of.

"He is fun'd for mildness, p oe, and prayer."-Shake -To make famous.

"Aristides was famed for his learning and wisdom."—Addiso

"Aristides was fassed for his learning and wisdom."—Addison.
Fanne'least, a. Without fame or renown.
Fanne'leastly, adv. In a fameless manner.
Fannil'ia, n. [Lat.] See FAMILY.
Fannil'iar, (familyar), a. [Fr. familiar; Lat. familiari, from familiar, a. evrant. See FAMILY.] Pertaining to servants, or to a family; domestic. — Accustomed by frequent converse; well acquainted with; learned or well understood by frequent use or association; as, a familiar friend, fumiliar with the classics.

Familiar provides now with prief year tears pertain."—Pune.

"Familiar now with grief, your tears restrain."-Pope.

Easy; informal; unceremonious; unconstrained; pre-senting an intinate manner.

"Be thou familiar, but by no means vulgar." - Shake.

Common, frequent, and intimate; as, the habit becomes familiar. — Intimate in an unlawful degree.

familiar. — Intimate in an uniawiui uegree.

An intimate; a close companion; one long acquainted.

"The King is a noble gentleman, and my familiar." — Shaks. A demon; an evil spirit supposed to attend one at call. " Love is a familiar, there is no other angel but love." - Shake

(Eccl. Hist.) In the Court of Holy Inquisition for-merly established by the Roman Catholic Church, a term applied to one of its officers, employed in the appre-hension and attending the torture of offenders. \*\*\*Pamiliar\*ity, n. [Fr. familiariti; Lat. familiaritas, from familiaris.] State of being familiar; intimate and

frequent converse or association in company; easiness of conversation; affability; freedom from ceremony; intimacy; intimate acquaintance; unrestrained inter-

Familiarise, v. a. [Fr. familiariser.] To make familiar or intimate; to habituate; to accustom; to make easy or intimate; to habitnate; to accustom; to make easy and well-known by practice or converse; as, to familiarize one's self with friends.—To make easy by practice or customary use, or by intercourse; as, to become familiarized with work.

tice or customary use, or by intercourse; as, to become familiarised with work.

Familiarised with work.

Familiarised with work.

Familiarised freedom of long acquaintance; without formality.— Commonly: frequently; with the ease springing from long custom or association.

Familiar Sparist, a. (Myth.) One of those demons or evil spirits which were supposed to attend and be at the service of a magician, or other favored person. The belief in familiar spirits is very ancient, and by the law of Moses, such as had familiar spirits were to be put to death. Where Socrates speaks of his attendant demon, he is generally understood to refer to the inner feelings and promptings of his nature, and not to any familiar spirit. In Eastern countries, the belief in familiar spirits is very general; and it was widely diffused over Europe in the Middle Ages. A favorite form assumed by a familiar spirit was that of a black dog. Jovius was that Cornelius Agrippa was always accompanied by a devil in the form of a black dog; and Gethe makes Mephistopheles first appear to Faust in this shape. Paracelsus was believed to carry about with him a familiar spirit in the hilt of his sword.

Faum'ilism, n. The doctrines held by the Familists.

Faum'ilism, n. The doctrines held by the Familists.

FAMI

The River Arno has its source on 5,557 ft.

Familis'tie, Familis'tieal, a. Relating or pertaining to the Familiat, domestics, from familia, a several aromatic plants, used as a several aromatic plants, and several aromatic, formula, familia, familia, familia, domestics, from familias, a slave; in Oscan, a language formerly spoken in the several aromatic plants, familia, familia, always; in Oscan, a language formerly spoken in the slave; in Oscan,

that the pretended state of nature, which has been represented as the primitive condition of man, is totally opposed to the benevolent designs of the Author of nature. (Bot.) A synonym for Order, q.v. (Zoll.) The group above the genus. An order of animals should be divided into families according to the form of species, but, in fact, the greatest confusion reigns in the classification of the animal kingdom.

Family Compacet. (Hist.) The treaty signed at the Excurial between Philip V. of Spain and Louis XV. of France, Nov. 7, 1733, is called by Spanish historians the First Family Compact; and the secret treaty of perpetual alliance between France and Spain, signed at Foutainebleau, Oct. 25, 1743, is termed by them the Second Family Compact. The celebrated treaty between the Bourbons of France and Spain (Louis XV. and Charles III.), known as the Family Compact, was concluded at Parls, Aug. 15, 1761. It was a defensive and offensive alliance between France and Spain. Ferdinand IV., king of Naples, acceded to the alliance.

onensive alliance between France and Spain. Fertiliand IV., king of Naples, acceded to the alliance.

Samine, (fum'in,) n. [Fr., from faim, hunger; Lat. fames, probably corrupted from fagmes, akin to Gr. phdgein; Sansk. blacksh, to eat.] Starvation; scarcity of food; dearth; a general want of provisions sufficient for the inhabitants of a country or beleaguered place; want; destitution; as to be reduced by famine.

the inhabitants of a country or beleaguered place; want; destitution; as, to be reduced by famine.

(Pol. Econ.) When a scarcity of the means of substance is so considerable that food is not procurable even by the omission of all other expenditures, famine ensues, and the poorest and most weakly part of the population is sacrificed. Famines are epidemic in the East. The art of agriculture is imperiect, and the people, generally speaking, living on the cheapest food, and having no export trade of importance, are almost always close upon the margin of possible subsistence. and having no export trade of importance, are almost always close upon the margin of possible subsistence. The occurrence of a famine reduces the numbers, and distributing what remains among fewer persons, leaves them the means of life. It is no doubt due to the physiological fact that epidemic disorders of a novel and destructive kind are generated among people liable to periodical famines, that the small-pox, the black death or Oriental plague, and the cholera have travelled from the East westward at different periods. In the Middle Ages E. were frequent in Europe lust, in modern times. the East westward at different periods. In the Middle Ages F, were frequent in Europe, but, in modern times, the facilities of communication so widen the markets, that for this as for European countries F is no more a danger. It is clear that the kind of food which costs must to procure at home, and which can nevertheless be grown over a wide area abroad, will, by commanding a better price, be supplied in fuller measure. Hence we reasonably predict that, though a rise in the price of barley and outs is intelligible, any scarcity in the yield of wheat on the hypothesis of free trade is highly problematical. In the next place, the wider the area, the more is the variation in seasons obviated. A bad harvest in one locality is met by a good harvest in the more is the variation in seasons obviated. A bad harvest in one locality is met by a good harvest in another, just as a drought in one region is counterpoised by an increased rainfail in another. In short, the imports and exports of nature, to use an economical parallel, balance one another. The energies, too, of mankind, and especially in this country the immensity of the territory—whence a great diversity of climates, make the contingency of even scarcity very improbable for the future. See F. of the World, Wulford (Lond. 1879).

\*\*Man'ine. (Port.) a penal settlement of the republic of Chill, S. America; Lat. 58° 38' S., Lon. 70° 58' W. \*\*\*man'ish. v. a. [Fr. affamer; It. affamire.] To kill or destroy with hunger; to starte.

"What, did he marry me to famich me?"—Shake.

To distress with hunger; to reduce the strength or en durance of by means of hunger.

"The pains of famish'd Tantalus he 'll feel." - Dryder To kill by deprivation of anything necessary to life. "Famish him of breath, if not of bread." — Milton. -To force into subjection, or cause to yield by famine; as,

to famish a garrison into a surrender.

5. n. To die of hunger; to starte.—To suffer extreme want of food; to be exhausted in strength, or to come near to perish by need of food or drink.

olved rather to die than to fer You are all res To be distressed for want of necessaries; to come near

—To be distressed for want of necessaries; to come near to periah by destitution.
Pann'ishmeent, n. Act of famishing; the pain of extreme hunger or thirst; extreme want of sustenance.
Famnous, (filmat).a. [Fr. famnus; Lat famous, from fama, fame.] Much talked of and praised; celebrated in fame or public report; distinguished in story: renowned; illustrious; eminent; noted; also, distinguished or noted in a bad or unfavorable sense; as, a famous contraction of the property of the property

or noted in a bad or unfavorable sense; as, a famous poet, a famous general, a famous pirate.

"I awoke one morning, and found myself famous." — Byron.

Fa.mounly, adv. With great renown or celebration; as, we dined famously.

Fa'mounness, n. State of being famous; celebrity; blob fam.

\*\*A THOUBERCOM, The Manuary of the M

to the term sizar (q. v.) used at the sister university of Cambridge.

\*\*Sam, n. [A. S. fann; Fr. van; Lat. vannus, probably allied to ventus, the wind.] An instrument for winnowing grain by agitating the air. — An instrument used by ladies to agitate the air, and cool the face, in warm weather; — hence, anything in the form of a woman's fan when spread; as, the fan of a peacock's tail, &c. (Hist.) The fan is manufactured of feathers, of paper, thin skin, or ivory, joined together, and is generally carved and painted, in order to insure its embellishment. It is mentioned in the Grecian classics (Euripides); indeed it was known in an æra far prior, as there are paintings in the relics of Thebes to prove that the Egyptians

It is mentioned in the Grecian classics (Euripides); indeed it was known in an ærs far prior, as there are paintings in the relics of Thebes to prove that the Egyptians were familiar with its use. The fan was first brought into European notoriety by Catherine de Medicis, who introduced it into France, where it was so constructed that it could be used and folded in a manner similar to the fan in use at the present day. Great sums were spent on the ornamentation of the fans first in vogue, and many were painted on by the cunning fingers of Wattean. During the 16th and 17th centuries, they were used by gentlemen. The Chinese have greatly excelled in the art of fan-making, and in the species of lacquered fans their superiority is fully admitted. The Chinese themselves use a cheaper sort, made of bamboo and paper, polished, which cost about tencents each. In Europe, France manufactured acceeded \$50,000 per annum. A species of large fan is used in India for cooling the air of rooms and keeping down the temperature; for further information upon which see PUNKAE.

A small vane or sail, used to keep the large sails of a wind-mill always in the direction of the wind.

That which serves to excite or increase a flame; that which serves to excite or increase a flame; that

That which serves to excite or increase a flame; that which heightens or strengthens.

"The contradiction of others is a fan to inflame their love." Hooker. -A machine employed to winnow grain — See Fanner. -r. a. To cool and refresh the face by moving the air

r.a. Toca with a fan. d into a slumber by her slaves." — Spe " She was fo

To ventilate; to blow on by agitating the air; as, to fan embers into a flame.

'S into a hame.
"The sultry air
"Pants on, and fens her parting hair."— Pope. To move, as with a fan.

"The air . . . fann'd with unnumbered plumes."

"To move, as with a fan.

"The air . . . /san'd with unnumbered plumes."— Muon.

"To separate, as by winnowing; to winnow; to excite into motion by agitation of the air; as, to fan grain.

Fanal'a. Er., from Gr. phanāa, lamp.] A pharos or light-house, or the lantern placed in it.

Fanat'ie, Fanat'ieal, a. [Fr. fanatique, from Lat. fanaticus, from fanum, a temple.] Seized with a divine enthusissm or fury, as certain priests who officiated in heathen temples; — hence, frantic; furious; mad; rabid, wild, and extravagant of opinion, particularly in a religious sense; excessively enthusisatic; possessed by a kind of mania or frenzy; as, fanatic zeal.

Famat'ie, n. A person affected by excessive zeal and enthusissm, especially on religious subjects; one laboring under wild and extravagant notions of religion; an enthusisst; a visionary.

—In ancient Rome the term was applied to such as passed their time in temples, and who, pretending to be inspired by the Divinity, would burst into wild and antic gestures, utter pretended prophecies, cut themselves with knives, &c. Hence, the term has, in modern times, come to be applied to such as manifest a religious enthusiasm, uncontrolled by reason or experience, and proceeding from a belief that they are under divine direction, and doing what will be well-pleasing in the sight of God. Fanaticism is sometimes applied in a wider sense to any excessive prepossession of the mind by ideas of any kind. Fanaticism has prevailed under difof God. Fanaticism is sometimes applied in a wider sense to any excessive prepossession of the mind by ideas of any kind. Fanaticism has prevailed under different forms in all ages of the world; and one of its most remarkable and dangerous features is the tendency that it has to spread over large masses of a people. It is not usually confined to one individual; for there are generally to be found others who are ready to take up and act upon the delusion. The very earnestness of the fanatic—and fanatics generally are in earnest—serves to carry conviction to the minds of others. Among persons of this class were Madame Guyon, Johanna Southcott, and numerous others. When confined to an adherence to certain theological dogmas, it is in

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a comparatively mild and harmless form: but sometimes it manifests itself in atrocities of the most cruel times it manifests itself in atrocities of the most cruel and heart-rending description,—murders, assassinations, and the like. If ignorance be the mother of devotion, much more is it the mother of fanaticism; and the only fit cure for delusions of this sort is the spread of education, enabling people to judge rightly as to the relative importance of things, and to distinguish between the true and the false.

Fanativeally, adv. In a manner governed by wild and unreasonable enthusiasm; with wild, irrational zeal or fanaticism.

and unreasonable enthusiasm; with wild, irrational zeal or fanaticism.

Famat'icalmess, n. State of being fanatic; fanaticism.

Famat'icism., n. Quality of a fanatic; wild and extravagant notions of religion; excessive and erratic enthusiasm; religious frenzy.

Famat'elze, v. To render fanatic.

Famatled, elawind, p. a. Imagined; imaginary; conceived; liked.

One who faction or takes a favor to as

Fan'cier, n. One who fancies, or takes a fancy to; as a dog. fancier. — A person controlled by fancy. "Not reasoners, but fanciers." - Macaulas

"Not reasoners, but functions."—Macaulay.

Fam'ciful, a. Full of fancy; guided by the imagination rather than by judgment, reason, and experience; whimsical; fantastical; as, a funciful man.—Dictated by fancy or the imagination; chimerical; full of wild images; ideal; as, a funciful project.

Fam'cifully, ade. In a fanciful manner; chimerically; wildly; whimsically.

Fam'cifulness, n. Quality of being fanciful; habit of being controlled by fancy rather than by reason.

Fam'cifess, a. Destitute of fancy; procaic; bare of imagination.

imagination.

Fam'erieket, n. (Zoil.) The Mole-cricket, q. r.

Fam'ery, n. [Gr. and Lat. phantasia, from Gr. phasino
to bring to light, to make to appear. See Fame.] An
appearance presented to the mind; image; conception:
representation of anything formed in the mind.—The
faculty by which the mind forms images or representarepresentation of anything formed in the minimages or representa-tions of things at pleasure; imagination.

An opinion or notion bred rather by the imagination than by the reason; caprice; desultory idea; whim.

"A person who was not disturbed by any fancies in religion.

Clarendo

Inclination; capricious liking; fondness; as, to take fancy to a person; — hence, by implication, the object of such inclination; as, the younger sister is my fancy. "His fancy lay extremely to travelling." - L' Estran

-Something that pleases or entertains without much real use or value.

"London pride is a pretty fancy for borders." - Mortis

(Fail.) This term was used by the ancient philosophers as co-extensive with conception—that power or faculty of the mind by which man reproduces the images of objects, apart from any impression on the organs of sense. It is now properly applied to a particular province of the imagination, though sometimes it is loosely used as aynonymous with it. "The office of the fancy," according to a modern philosopher, "is to collect materials for the imagination." A man whose habits of association present to him a number of resembling or analogous ideas, for illustrating or embellishing a subject, we call a man of fancy; but for an effort of imagination, various other powers are necessary, particularly those of taste and judgment.—It is the power of F, which supplies the poet with metaphorical language, and with all the analogies which are the foundation of his allusions; but it is the power of imagination that creates the complex scenes he describes, and the fictitions characters he delineates. To F, we apply the epithets of rich or luxuriant; to imagination, those of beautiful or sublime. Others, however, regard F, as a higher energy of the mental activity than imagination, and that it is the imagination that furnishes the materials out of which it creates its fantanies, either by modifying or engogerating them on the forming new corn. (Phil.) This term was used by the ancient philosorials out of which it creates its fantasies, either by modi-fying or exaggerating them, or by forming new com-

binations.

The Funcy, a term applied in England to those persons, collectively, who exhibit a special taste or fancy for sporting and athletic pursuits; it is, however, more particularly applied to those who encourage and practise boxing, or the art of self-defence.

Fam'cy, v. n. To imagine; to picture or figure to one's self; to believe or come to a conclusion without proof; as, to fincy another is one's enemy.

—r. a. To portray in the mind; to form a conception of; to image to one's self; to imagine.

"He whom I fancy, but can ne'er express."— Dryden.

"He whom I Jancy, but can ne'er express."— Dryden.

—To feel a fancy or inclination for; to be pleased with, particularly on account of external gifts or graces; to be prepossessed in favor of; as, to fancy a girl.

Fan'ey, a. Fine; elegant; ornamental; adapted to please the taste or fancy; as, a fancy costume.

Fincy ball, a ball or entertainment of dancing, in which those who attend are attired in fancy dresses: a bal contuné. — Fancy gends or articles, fabrics and ornaments for personal wear, of lively colors, as distinguished from articles of a plainer character and more sombre hue. — Funcy stocks. (Bunking, U. S.) A species of stocks which afford great opportunity for stock-gambling, since they have no intrinsic value, and the finctuations in their prices are chefly artificial.

bling, since they have no intrinsic value, and the fluctuations in their prices are chiefly artificial.

Fancy Store (U.S.), an establishment for the sale of fancy goods, embroideries, &c.

Fan'cy Creek, in Kansa, a post-office of Clay co.

Fan'cy Creek, in Wisconsin, a village of Richland on a creek of the same name

Fancy Farm, in Kentucky, a post-office of Graves co.

Fan'cy-free, a. With the heart or imagination intact; free from the influence of love; as, "in maiden meditation. fancy-free."—Shaks.
Fan'cy-monger, n. One who deals in tricks of imagination. With the heart or imagination in-

Fancy-sick, a. Unsound in imagination; distempered in mind.

Famey-BICK, d. Unsound in imagination; distempered in mind.

Famedamgo, (fdn-ddng'go,) n. [Sp.] (Dancing.) An old popular Spanish dance of great antiquity. It proceeds gradually from a slow and uniform, to the most lively, but never violent motion. It is danced by two persons only, and represents the various gradations of the passion of love to an extent bordering on the licentious. The dancer is usually provided with castanets—a practice borrowed from the Moors—which serve to mark the time better than a stringed instrument alone would do. The F is now chiefly confined to the theatres and parties of the lower classes. and parties of the lower clusse

and parties of the lower classes.

Self-ame, n. [Lat. fanism, from fari, to sing in verse, to celebrate. See Fame.] A place dedicated to some deity by form of consecration; a temple; a place consecrated to religion; a church. (Used chiefly in poetry.)

" A sacred fane in Egypt's fruitful lands." - Tickell.

Fane, a river of Ireland, flowing into Dundalk Bay.
Fane'ga, n. [Sp.] A dry measure used in Spain,
Mexico, the Argentine Republic, and Uruguay, equal to 11/4 imp. bush.

1½ imp. bush.

\*\*san'euil Hall, a public hall in Boston, presented to the town by Peter Faneuil, in 1740. It contained a market-house on the ground-floor, and a town-hall, with other rooms over it. In 1761 it was destroyed by fire. In 1763 it was rebuilt by the town; and, in 1775, during the British occupation of Boston, it was used for a



Fig. 989. - PANEUIL HALL

During the revolutionary period it was a often used for important political meetings see Bostos) that it gained the name of The Cradle of American Liberty, and is one of the old landmarks of Boston; the hall contains some fine paintings, and the basement is still used as a market.

sun used as market.

Fanfare, (fan'fūr.) n. [Prov. fanfa, a boast; It.
fúnfano; Fr. fanfare. Probably formed from the
sound.] A flourish of trumpets, kettle-drums, and
similar instruments. Such a composition was usually
played before a knight as he entered the lists to do battle. — Hence, an ostentatious boast; a bravado; a fanfaronade.

Bm'faron, n. [Fr. See FANFARE.] A bully; a lictor a swaggerer; an empty boaster; a vain pretender.

Fanfaronade', n. [Fr. fanfaronnade.] A bluster;
a swaggering; a piece of vain boasting. (Swift.)—See
FANFARE.

FANFAR.

Famg, n. [A.S. fang; L. Ger. fangen; Ger. fang, a claw or talon; Icel. fanga.] The tusk of a boar or other animal, by which the prey is clutched and held; a pointed tooth; as, the fangs of a dog.—A claw or talon.—Any shoot or other thing by which hold is taken.

(Mining.) A niche cut in the side of an adit or shaft, to serve as an air-course; sometimes a main of woodpipes is called a fanging.

Fanged, (fangd.) a. Furnished with fangs, tusks, or aomathing long and pointed: as a fanged adder.

pipes is called a fanging.

Fanged, (fangd.) a. Furnished with fangs, tusks, or something long and pointed; as, a fanged adder.

Fang-ki', a small island lying off the S. coast of China, prov. Kwang-tung: Lat. 21° 18' N., Lon. 110° 35' E.

Fang Tess, a. Without fangs or tusks; destitute of teeth.

Fan got, n. [1t. Jongotto.] A quantity of merchandise, as raw silk, &c., from one hundred to two hundredweight and three quarters.

Fan -light, n. (Arch.) A semicircular window resembling an open fan in appearance.

Fan mer, n. One who uses a fan. — A ventilator.

—pl. Vanes or flat discs revolving round a centre, so as to produce a current of air; generally used instead of bellows for forges.

(Agric.) A machine employed to winnow grain. In

passing through the machine, the grain is rapidly agitated in a sieve, and falling through a strong current of wind, created by a rotatory fan, the chaff is blown out at one end, and the cleansed particles fall out at an orifice beneath. The apparatus is composed chiefly of wood, and though ordinarily moved by the hand, it is sometimes connected with the driving-power of a threshing-mill. The fanners superseded the old and slow process of winnowing, which consisted in throwing up the grain by means of sleves or shovels, while a current of wind, blowing across the threshing-floor, carried away the chaff.

way the chaff.

Fan'-merwed, a. (Bot. and Zool.) Having the nervures or nerves disposed in the manner of a fan.

Fan'met Point, a promontory and light-house of Ireland, on the W. side of Lough Swilly, in Ulster, co. of Donegal.

Fam'mett, in Pennsylvania, a township of Franklin

co.
Fan'nettsburgh, in Pransylvania, a post-village of Metal township, Franklin co., about 17 m. N.W. of Chambersburg.
Fan'nin, in Georgia, a N. co. bordering on Tennessee

and North Carolina; area, about 449 square milea. Risers. Ococe and Connasanga rivers. Surface, mountainous; soil, generally fertile. (ap. Blue Ridge. Pop. (1890) 8,724.

(1890) 8,724.

Fan'nin, in Mississippi, a post-office of Rankin co.

Fan'nin, in Texus, a N.N.E. co, bordering on Indian
Territory; area, about 1,000 square miles. Rivers. Red
river and Bois d'Arc creek, besides other smaller
streams. Surface, level; soil, very fertile. Cap. Bonham.
Pop. (1897) about 45,500.

Fan'ning-machine, Fan'ning-mill. See Far-

Fan'ning-machine, Fan'ning-mill. See FarNERS.

Fan'nem, n. [O. Fr., from L. Lat. fano.] (Eccl.) A
kind of vestment resembling a scarf, worn about the
left arm of a Roman Catholic priest in the celebration
of the mass. (Sometimes called fannel.)

Fa'no. [Anc. Fanum Fortune. from a temple dedicated
to the goddess Fortune.] A well-built town and scaport
of Central Italy, prov. Crbino, 7 m. S.E. of Pecaro, and
29 N.W. by W. of Ancona. Many! Silk stuffs, twist,
&c. Pop. about 12,000.

Fa'no. or Fan'no. one of the Ionian Islands, at the
entrance of the Adriatic, 14 m. from Corfu.

Fanoe. (fü'no-ch.) an island of Denmark, off the W.
coast of Jitland, 12 m. N.W. of Ribo. It is 8 m. long
by 2 broad, and has a pop. of about 3,000.

—A bannerol; a flag; an ensign.

Fan'-palim, n. (Bot.) See Coryba.

Fan'-palim, n. (Bot.) See Coryba.

Fan'-tail, n. A kind of gas-burner which emits the
flame in the form of a fan.

(Zoöl.) The common name of the Rhipidura, a genus
of birds of the Fly-catcher family, found in Australia.

The species Rhipidura Arbiscapa, or White-shafted
Fantali, inhabits N. and S. Australia. It is generally
seen in pairs, among trees. While in the air it assumes a
number of lively and beautiful positions; at one moment
mounting almost perpendicularly, spreading out its tail



Pig. 990.—WHITE-SHAPTED FANTAIL, (Rhipidura arbiscapa.) constantly to the full extent, and frequently tumbling over in the descent. It is a very tame bird, allowing near approach without showing the least timidity, and

will even enter houses in the bush, in pursuit of gnats and other insects. In the breeding-season it is not so familiar. Its nest is very elegant, resembling a wine-glass in shape, and is generally composed of the inner bark of a Eucalyptus, neatly lined with the down of the tree-fern, intermingled with flowering stalks of most and outwardly matted together with the webs of spiders, which not only serve to envelop the nest, but siso strengthen its attachment to the branch on which it is constructed, which is always within a few feet of the ground. Even two in number.

Far, a. [A. S. feor, feorran; D. ver; Icel. fir; Goth. fairra, allied to Sansk.pdr, the opposite bank.] Gone away beyond or to a distance; remote; distant; september, and by a distance; remote; distant; september and by a wide space from the place where one is, or from any given place that is remote; as, countries far and near.—Remote from my intention.—Remote from duty, affection, or obedience; in antagonism to the from duty, affection, or obedience; in antagonism to the from duty, affection, or obedience; in antagonism to the from duty, affection, or obedience; in antagonism to the from duty, affection, or obedience; in antagonism to the from duty, affection, or obedience; in antagonism to the from duty, affection, or obedience; in antagonism to the from duty, affection, or obedience; in antagonism to the from duty, affection, or obedience; in antagonism to the from duty, affection, or obedience; in antagonism to the from duty, affection, or obedience; in antagonism to the from duty, affection, or obedience; in antagonism to the from duty, affection, or obedience; in antagonism to the from duty, affection, or obedience; in antagonism to the from duty, affection, or obedience; in antagonism to the from duty, affection, or obedience; in antagonism to the from duty, affection, or obedience; in antagonism to the from duty, affection, or obedience; in antagonism to the from duty, affection, or obedience; in antagonism to the from duty, affection, or

ground. Eggs two in number.

Fantasia. (fus./a/se-a.) a. [Ital.] (Mus.) A species of composition in which the author confines himself to of composition in which the author confines himself to no particular form or theme, but ranges as his fancy leads amid various airs and movements. Rousesau, in defin-ing this word, confines its meaning to extempore com-position, and makes this distinction between capriccio and fantaia: namely, that the former is a collection of singular and whimsical ideas strung together by an excited imagination, and written down at one's leisure, excited imagination, and written down at one's leisure, while the latter is an off-hand display of whatever comes across the mind at the instant of execution.

while the latter is an off-hand display of whatever comes across the mind at the instant of execution.

Fam'sam, s. Same as Phantasic. (Used poetically.)

Fam'sam, s. A fantastic person. (n.)

Fam'sam, a. A fantastic person.

Lat. and Gr. phantasia. See Fancy. Fanciful; produced or existing only in imagination; imaginary; not real; chimerical; irrational. — Having the nature of a phantom; only occasionally assuming a visible form.

— Uncertain; unsteady; irregular; as, the fantastic form of a tree. — Whimsical; capricious; odd; indulging the vagaries of imagination; full of fantasy; as, a fantastic humor, a fantastic character.

— a. One given to eccentricity in dress, manners, &c.; a person of odd appearance or habits.

Famtastical'ity, a. Fantasticaness.

Famtastical'ity, a. Fantasticaness.

Famtastical'ity, a. Fantasticaness.

Famtastical'ity, a. Fantasticaness, n. State of being whimsical, fantastic, or capricious.

Fam'see, a country of Africa, on the Guinea coast, in abt. Lat. 5° 30′ N., and Lon. 1° W., bounded on the S. by the Atlantic, and on the other sides by the countries of Asin, Aguatoo, and Wassaw. Soil, fertile. The Fantees were once the most numerous and powerful people on the Guid Coast. but since 1811 they have diminished in

Asin, Aguafoo, and Wassaw. Soil, fertile. The Fantees were once the most numerous and powerful people on the Gold Coast, but since 1811 they have diminished in numbers, and now live under the protection of the British garrisons at Cape Coast Castle.

Fantoccimi. (fan-tot-che'ne,) n. pl. [From It. fantocci, a puppet.] An exhibition of puppets, or a dramatic representation on a small scale, performed by figures or doils, an amusement of which the Italians are extremely fond, and which is frequently performed in a portable theatre—like that of Punch and Judy.

Fant'toma, n. Same as PHANTON, a.v.

theatre—like that of Punch and Judy.

Fam'tom, s. Same as Phanton, q.v.

Fan'tom-corm, s. Corn of a light description.

Fan-tracery Vaulting. (Arch.) A beautiful form of vaulting, peculiar to the late Gothic style, in which the ribs or veins spring from one point, the cap of the shaft, and radiate with the same curvature



Fig. 991. - ST. GEORGE'S CHAPEL (N. aisle), WINDSOR

toward the centre, cutting into each other, and very frequently finishing with a large pendant, which forms a kind of keystone. The under surfaces are, therefore, frequently finishing with a large pension, a kind of keystone. The under surfaces are, therefore, a kind of keystone. The under surfaces are, therefore, curved in many ways, and are not plane in any section like the ordinary vaulting; they in some degree resemble pendentives, and meet together in the centre like portions of domes. One of the finest specimens is at St. George's Chapel, Windsor (Fig. 991).

Fram-wheel, n. See Fanne.

Faquir', n. Same as Fakir, q.v.

Remoter of the two, as, in horsemanship, the right side of the horse, which the rider turns from him when he

## "No true Egyptian ever knew in horses The far side from the near."—Dryden

adv. Remotely; to a great distance in space; as, far away in India

To a great distance in time; distantly; as, far in the past.—In a great part.

past. — In a great part.

"When they went by Jebuz, the day was far spent."— Judges. By many degrees; in a large proportion; very much.
"With oxen far unfit to draw the plough."—Dryden.

To a certain point, degree, or distance; as, he is a liberal man as fur as money goes.

By fur, in a great degree; extensively; very much.

"A nobler man he is by far,
Than many richer persons are."—Davies.

Fur from, at a preat distance.

"Fur from his country in the western world."—Addison

ry different; not equal to, or on a par with; as, she is

"Far from his country in the western world."—Addicon.

Very different; not equal to, or on a par with; as, she is far from being his equal.

Fur off. At or to a great distance; as, to be fur off making money.—Alieuated; divided by difference of time, distance, or condition; as, a far off settlement, to go to a place far off.—From far, from a remote distance.

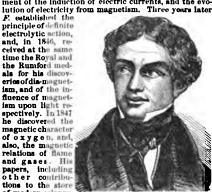
"To our own land there came, from far.—Daviss.

Far, n. [A. S. farh.] See Farrow far.—Daviss.

Far, n. [A. S. farh.] See Farrow far.—Daviss.

Far, n. [A. S. farh.] See Farrow far.—The chemist and natural philosopher, B. 1791. He received little or no education, and was apprenticed to the trade of a bookbinder. During his term of apprenticeship, a few scientific works fell into his hands, which he read with avidity, and forthwith devoted himself to the study of, and experiments in, electricity. Having attended the lectures given in 1812 by Sir Humphry Davy, and taken notes thereon, he sent them to that great philosopher, and besought some scientific occupation. The reply was prount and favorable. In 1813, F. was appointed Chemical Assistant, under Sir Humphry, at the Boyal Institution. After a Continental tour in company with his patron, F., still pursuing his scientific investigations, discovered, in 1820, the chlorides of carbon, and, in the following year, the mutual rotation of a magnetic pole and an electric current. These were strong encouragements to proceed on the path of discovery, and led to the condensation of gases in 1823. In 1829 he labored hard, and, as he thought at the time, fruiteesly, on the production of optical glass; but though unsuccessful in his immediate object, his experiments produced the heavy glass which after wards proved of great assistance to him in his magnetical investigations. In 1831 the series of Experimental Researches in Electricity, published in the "Philosophical Transactions," began with the developglass which afterwards proved of great assistance to him in his magnetical investigations. In 1831 the series of Experimental Researches in Electricity, published in the "Philosophical Transactions," began with the develop-ment of the Induction of electric currents, and the evo-

time the Royal and the Rumford medals for his discoveries of dia-magnet-ism, and of the influence of magnetism upon light re-spectively. In 1847 he discovered the he discovered the magnetic character of oxygen, and, also, the magnetic relations of flame and gases. His papers, including other contributions to the store of modern extense. of modern science.



of modern science, are too numerous Fig. 992.— FARADAY. to mention in detail. It should be observed that the "Researches," though termed "Experimental," contain many hypothetical ideas, and many inquiries into theories generally adopted up to their time. Among these may be specified the considerations respecting static induction, atmospheric electricity, and those relating to lines of force, both physical and representative, on which having sufficiently stated his views he was content to lines of force, both physical and representative, on which having sufficiently stated his views, he was content to leave them for solution to time and future experience. It may be added that his last hypothetical view relates to the Conservation of Force, and that one of his latest papers treats of the division of gold and other metals. In 1833. F. was appointed Professor of Chemistry in the Royal Institution, London, which chair he continued to hold until his death. In 1835 he received from govt. a pension of \$1,500 per annum in recognition of his eminent scientific merits. In 1836 he was appointed a member of the senate of London University. From 1829-12 he was Chemical Lecturer at the Royal Academy. In 1823 F. was elected Corresponding Member of

the French Academy, in 1825 he was chosen a Fellow of the Royal Society, and in 1832 made a n.c.l. of Ox-ford University. He was, besides, a knight of several of the European orders, and a member of the chief learned and scientific societies in Europe and the U. S. In private life his character was irreproachable, and In private life his character was irreproachable, and characterized by great humanity and modesty. D. 1867. Far'afeh, an oasis of the Libyan Desert in Africa, containing several ruins of Greek and Roman origin. The inhabitants fabricate some coarse woollen cloths and earthenware. Lat. 27° N., Lon. 28° 23' E. Far'and, n. Same as Yarrand, q. v. Far'andams, n. A sort of textile fabric of mixed silk and wool.

silk and wool.

silk and wool.

Far'amtly, a. [See Farrand.] Neat; orderly; decent.

Farea. n. [Fr., from Lat. farcin, to stuff, to cram.]

Ridiculous parade; empty pageantry or ceremony; mere
show; as, the whole business is a farce.

(Dram.) A short play, of low comic character,
usually played as an after-piece. The original term
seems, like the Lanx Satura of the Romans, which gave
its denomination to the satire, to signify a miscellaneous
compound or mixture of different things. Its sole end
being to excite mirth, it excludes nothing, however
wild or extravagant, which may contribute to that
object. It differs from comedy in this, that, while the
latter is based upon nature and truth, the former does
not scruple to have recourse to any extravagance or latter is based upon nature and truth, the former does not scruple to have recourse to any extravagance or absurdity that may serve its purpose. The F. is restricted to three acts as its limit, but frequently consists of only two or one. Farces usually partake of the character of the people to whom they belong; hence sie French, German, Italian, and Spanish farces have different characteristics. Farces are said to have been first introduced by the Society of Clercs de Bazoche, in Paris, about 1400. Molère greatly improved and elevated this class of dramatic literature.

(Cookery) Forcement: attiffing: dressing for fowls.

(Cookery) Forcement; stuffing; dressing for fowls, game, meats, &c.

-c. a. To fill with forcement; hence, to mix various ingredients together; as, to farce the principles of reli-

gion.

\*\*ar'cical, a. Pertaining to a farce; appropriated to farce; droll; ludicrous; ridiculous; us, a farcical char-

Farcically, adv. After the manner of a farce; ludi-

Farcial ness, n. State or quality of being furcial.

Farcimen. Farcin, Farcy, n. [Fr. farcin.]

(Furriery.) A disease in horses, which depends upon the same causes as Glanders (q. v.), which it usually precedes and accompanies. The absorbent glands and vessels, usually of one or both hind limbs, are inflamed, tender, swollen, hard, and knotted. The vitiated lymph thus poured out softens, and ulcers, or farcy buds, appear. Unlike the ulcers of glanders, they are curable, but require both time and care. They must be scarfied with the hot iron, which, to prevent their spreading, may also be gently run over the adjacent sound skin. Good feeding and comfortable lodgings are essential; and if they do not interfere with the appetite, give tonics, such as a drachm each of sulphate of copper and iodine, repeated twice a day. iodine, repeated twice a day.

Farcing, n. (Cookery.) Stuffing composed of force-

Fardel-bound, s. (Furriery.) A disease of cattle and sheep; it consists of impaction of the fardel-bag, or and sheep; it consists of impaction of the fardel-bag, or third stomach, with food, which is taken in between the leaves of this globular stomach, there to be fully softened and reduced. When the food is unusually toughty, or indigestible, consisting, for example, of overripe clover, vetches, or rye-grass, the stomach cannot moisten and reduce it with sufficient rapidity; fresh quantities continue to be taken up, until the overgorged organ becomes paralyzed, its secretions dried up, and its leaves affected with chronic inflammation. The elighter cases so common among stall-led cattle are "loss of cut," indigestion, and torpidity of the bowels. In severer form, there is also fever, grunting, swelling up of the first stomach, and sometimes stupor or epilepsy. The overgorged stomach can, moreover, be felt by pressing the closed flat upwards and lackwards underneath the false closed fist upwards and backwards underfiest the fisles ribs on the right side. The symptoms often extend over ten days or a fortnight. Purgatives and stimulants are to be given. For a full-grown beast, give, in three or four bottles of water or thin gruel, ½ lb. each of common and Epson salt, 15 ground croton beams, a drachm of calomel, and two ounces of ginger. If no effect is produced, repeat this in 12 or 15 hours. Inject scap and water clysters every hour, withhold all solid food, and allow only sloppy mashes, treacle and water, or thin inseed tea. An occasional bottle of ale, with an ounce or two of ginger, often expedites the action of the ubvaic.

seed tea. An occasional tottle of sie, with an ounce or two of ginger, often expedites the action of the physic, and wards off nauses and stupor. Far diug-bag, n. The first stomach of a rumineting animal, whence green food is brought forth for second chewing.

Fare, v. n. [A. S. and Goth. faran, to go or pass.

FAR.] To go; to pass; to move forward; to travel

"Sadly they fared along the sea beat shore." — Pops.

To be in any state, good or bad; to be involved in any series of events, favorable or unfavorable.

"If you do as I do, you may fare as I fare." - L'Estrange

To be fed; to be entertained at table.

"The rich man fored sumptuously every day." — Luke zvi. 19.

—To proceed in a train of circumstances, good or bad; to happen well or ill:—applied in an impersonal sense; as, how fares it with you to-day?
Fare, n. The price of passage in coming or going by lacd or water; as, a railroad fare, fare for ferriage across a

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river, &c. - Food; provisions of the table; as, he loves gool fare.—Experience; state or condition arising from events or circumstances.—The passengers by a vessel or vehicle; as, a full fare of immigrants. (R.) Hants, on

Pare Basm, a scaport-town of England, co. Hants, on a creek at the N.W. extremity of Gosport Harbor, 4 m. N.N.W. of Gosport, and 64 S.E. of London. It is a fa-

N.W. of Gusport, and 64 S.E. of London. It is a favorite see-bathing resort, prosecutes ship-building, and has manuf. of ropes and sacking. Pop. 4,412.

Farewell', interj. [Fure and seell.] Adieu; good-bye; go well: be well; be happy: a wish of happiness or valediction to those who leave and those who are left; an expression of separation. It is sometimes divided by the pronoun, as, fare you well, fare thee well.

"Fore thee well, and if forever, still forever, fare thee well." B A wish of happiness or welfare at parting; the parting compliment or expression of good-will.
 Act of departure; leave.

"From England's shores I took a last forwest." — Sucin.

-a. Valedictory: taking leave; as, a farewell visit.

Fare'well. (Cape.) the S. point of W. Greenland;
Lat. 59° 37' N., Lon. 42° 42' W.— Also a cape on the S.W.
coast of Greenland; Lat. 59° 38' N., Lon. 42° 45' W.

Far-fetched, (far/fecht). a. Brought from afar or
from a remote distance; as, "far-fetched gold." Dryden.

—Elaborately strained; not easily or naturally deduced
or introduced; studiously sought; forced; as, a farfetched joke, a far-fetched ryme.

Faribault (far-bi/), in Missesota, a S. co., bordering on lows; area, about 720 aq. m. Rivers. Blue Earth,
Mankato and Maple rivers. Surface, level; soid, fertile,
Cap. Blue Earth city. Pop. (1855) 20,128.

-A city, cap. of Rice co., on the Cannon river, 53 m. S.
of St. Paul. An educational center and a thriving commercial city. Pop. (1855) 7,616.

-A city, cap. of files co., on the Cannon river, 53 m. S. of St. Paul. An educational center and a thriving commercial city. Pop. (1845) 7,616.

Farina, (fu-ri'na,) n. [Lat., from far, farris, a sort of grain, speit.] Ground corn; meal; flour. (Nean.) Starch; fecula. (Bot.) The pollen, fine dust, or powder contained in the anthers of plants.

Farinaceous, (far-i-na'shus,) a. Consisting or ma of farina, or meal and flour; as, farinaceous food.

Yielding faring or flour. -Mealy; like meal; pertaining to meal; as, a farinaceo

mealy like meal; pertaining to meal; as, a pariacecous smell.

Farinelli, (whose real name was Carlo Broscht,) a singer of great eminence in his day, was B. in Naples in 1705. He studied under Porpora, and went from Rome to Vienna, where the emperor Charles VI. loaded him with rich presents. In 1734 F. went to London, and by the magic of his singing so delighted the public, that Handel was obliged to dismiss a rival company over whom he presided, in spite of all his powers and popularity. Many extraordinary stories are related of F. s vocal skill, and his command over the feelings and sympathies of his audience appears to have been unrivalled. D. 1782.

Farinesse, a. [Lat. furinosus.] Yielding or forming farina; as. a farinose seed.

(Bot. and Zool.) Applied to parts covered with a white mealy substance.

alv substance

Far ley, in Inc., a post-village of Dubuque co., about 23 m. W. of Dubuque.

23 m. W. of Dubuque.

Far'ley, in Missouri, a post-village of Platte co., about 7 m. E. by S. of Leavenworth.

Far'linville, in Kansas, a post-office of Linn co.

Far'low's Grove, in Illinois, a village of Mercer co., about 20 m. E.N.E. of Kelthsburg.

Farms, n. [A. S. farma, farm, or feorm, food, a meal; geformsian, to supply with food. The word arose from the original practice of letting lands, on the condition that the tenant should supply his lord's household with so many nights' entertainments [A. profitor of lands or more condition than the condition of lands or more conditions of lands or more conditions of lands or more conditions of lands. so many nights' entertainments.] A portion of land under cultivation, taken on lease or rented; ground let to a tenant for tillage, pasture, &c., on condition of his paying a certain sum, annually or otherwise, for the use of it. — A tract of ground or landed estate devoted by its owner to agricultural purposes. — The state of lands let out for cultivation by tenants; as, to set out a landed property in farm. — A district or territory farmed out for the collection of certain revenues therefrom.

for the collection of certain revenues therefrom.

(Agric.) A portion of ground cultivated for the purpose of profit. Farms are of different kinds: where the principal part of the land is ploughed, they are "arable farms;" where the raising and fattening of cattle or other live-stock is more immediately the object, they are known as "grasing farms;" where the chief object is the obtaining of the different animal products, such as milk, butter, and cheese, they are called "dairy farms;" and where the two systems of arable and grass management can be combined they are "convertible and combined they are "convertible". management can be combined, they are "convertible farms." As manure must be had in order to keep up the productiveness of farms of any kind, the last may the productiveness of farms of any kind, the last may probably be generally considered as the most advantageous. In the selection of a farm and of the locations for its buildings, care should be taken to avoid the inconvenience arising from climate and the quality or situation of the ground. Both pleasure and profit should be considered in the purchase of a F. The Romans laid to down as a rule that no degree of fertility should tempt a man to purchase in an unhealthy country, nor the pleasantest situations in a barrenone. "Buy not too hastilly," asys Cato, "but view again and again the purchase you intend to make; for, if it be a good one, the oftener you see it the better it will please you. Examine how the neighboring inhabitants fare. Let the country it lies in be a good one; the ways to and from it good; and the air temperate. Let your land, if you can choose your situation, be at the foot of a hill, facing the south, in a healthy place where a sufficiency of water may be

Let it be near a flourishing town, the sea, or a nad. Let it be near a flourishing town, the sea, or a navigable river; or bordering upon a good and well fre-quented road. Let the buildings upon your ground be strong and substantial. Do not rashly condemn the method of others." After the lapse of 2,000 years these rules are still worthy of the careful attention of any on-contemplating the nurchese of a farm. The nurther contemplating the purchase of a farm. The purity of contemplating the purronase of a larm. The purity of the air, the purity and abundance of running water, and the character of the soil, should be carefully considered. The nature of the soil may be ascertained either by analysis, or by observation of the weeds and trees growing upon it. Attention should also be paid to the degree of its attraction for the insensible moisture of the atmosphere, to the kind of substratum on which it resta atmosphere, to the kind of substratum on which it rests, and to its inclination as affording facilities for proper drainage, and yet not so much inclined as to render the soil liable to wash by the rains. — Whether it is more profitable in this country to lay out money in the purchase and improvement of exhausted F, or in the clearchase and improvement of exhausted F, or in the clearing and improvement of new land, is a question which
requires more mature consideration than has been generally given to it. Calculations embracing the several
expenses required in the two operations would seem to
show, that the intelligent farmer, versed in the various
processes of producing manure and taking advantage
of green failow crops, will lay out his means most profitably in restoring worn-out lands to fertility; provided
he does not commit the common error of endeavoring
to improve more land than his resources will enable he does not commit the common error of endeavoring to improve more land than his resources will enable him to do justice by. — On the other hand, the man of more limited means, who cannot buy an old F. or get one on a sufficiently long lease, may, by going W., purchase land at \$1:25 per acre, or 200 acree for \$250, which will be already in the highest state of fertility, but seriously encumbered with heavy timber or other natural drawbacks. This he clears and brings under cultivation little by little, working, perhaps, a certain portion of his time for others, in order to obtain subsistence previous to the coming in of his cross. Every acre cleared his time for others, in order to obtain subsistence previous to the coming in of his crops. Every acre cleared may cost him some 15 or 20 dollars, which, however, adds the same amount to the value of the F., whilst every bushel of grain and every addition to his stock is so much gained. It may be several years before the pioneer will accumulate much property. Still, however, the prospect of an ultimate independence thus held out to the poor and industrious settler is a good one.—The average number of acres in a Fire is a good note.— The average number of acres in a Fire is a good note.— The average not devoted to the cultivation of some special staple, is about 100. The farms in the newer States, and the plantations in the cotton and tobacco growing States, embrace from 200 to 600 acres—and often several thousand. The number of farms in the U. States may be tabulated as follows: 4,564,641 farms, including 623,218,619 acres, which gives an average of 1365 acres for each farm.—See Acriculturs.

Farm, r. a. To let out, as lands, to tenants at a certain

rent.
"We are enforced to form her royal realm."

To take on lease at a certain rent or rate of compensa

To lease or let, as taxes, imposts, or other duties, at a certain rate or sum per cent.

To cultivate lands; as, to farm a hundred acres.

To farm let, to lease or let, as lands, at a specified rent

To operate on lands, as an agriculturist; as, he

—v. n. To operate on lands, as an agriculturist; as, he farms his ground on scientific principles.
Farm'able, a. That may be farmed; susceptible of agricultural improvement; as, farmable soil.
Farm'er, n. [A. S. farmere.] In England, one who farms; one who cultivates lessed lands. — A husbandman; an agriculturist; one who works at tillage, &c. — One who takes taxes, customs, excise, and other sources of revenue, to collect for a certain rate per cent. — (Mining.) In Cornwall, Eng., the lord of the manor in which mines are worked. s are worked.

mines are worked.

In the U. States, a person whose business or employment is the cultivation of land, the breeding, rearing, and feeding of different sorts of live-stock, and the management of the various products which are afforded by them. In this country, the F is generally the owner of the farm he occupies; and depending on its products for his subsistence and fortune, has thus every inducement to thoroughness and intelligent care in its cultivation.

Farm'er, in Ohio, a post-village and township of Defi-ance co., about 145 m. N.W. of Columbus; pop. of town-ship, about 1,\*00. Farm'eress, n. A woman who manages a farm. (R.)

Farm'eress, n. A woman who manages a farm. (R.)
(In this sense the word farmer is generally applied to

Farim'eress, n. A woman who manages a farm. (R.) (In this sense the word farmer is generally applied to females equally with males.)

Farimer-general, n. [Fr. fermier-general.] (French Hist.) A title given in France to the members of a privileged association, who, before the revolution of 1789, farmed certain branches of the public revenue, that is, paid the government a certain fixed annual sum for the right of collecting certain of the taxes. Under Francis I., in 1846, the duties on salt were first raised by farming the monopoly of its sale in each town. In 1899, Sully introduced the system of disposing of the right of farming the taxes to the highest bidder, and in this way greatly increased the public revenue. In 1728, under the regency, several of the individual leases were united into a ferme general, which was let to a company, the numbers of which were termed fermiers generaux. In 1789, the number of F. G. was 44, who paid into the treasury 180 millions of livres annually. They were possessed of extensive powers and privileges, conferred upon them by special decrees; and, from the manner in which they exercised their powers, they were viewed with great detestation by the people. Hence, during the Revolution, to which this in no small degree contributed,

many of these odious tax gatherers perished on the scaffold, and an end was put to the system.

Farmers, in Illinois, a thriving township of Futton co.

Farmers, in Penna, a P. O. of York co.

Farmers, in Penna, a p. O. of York co.

Farmers, in Indiana, a post-village of Sullivan co., about 15 m. S. of Terre Haute.

Farmershamers, in Locace a cost-village and town.

Farmersburgh, in Iosa, a post-village and town-ship of Clayton co., about 90 m. N. of Iowa city. Farm'er's Creek, in Iosa, a township of Jackson county.

Farmer's Crock, in Michigan, a P.O. of Laper co. Farmer's Exchange, in Tonocce, a put-office of Hickman co.

Farmer's Grove, in Minesota, a village of Fillmore co., about 5 m. S. of Chatfield.

Farmer's Grove, in Wisconsin, a post-office of

Parmer's Hall, in Illinois, a village of Knox co., about 50 m. W. N. W. of Peoria.

Farmer's Imstitute, in Indiana, a post-office of

Tippecanos co.

Farmer's Hills, in New York, a post-village of Putnam co., about 86 m. 8. by E. of Albany.

Farmer's Retreat, in Indiana, a post-village of

Dearborn o ner's Station, in Ohio, a post-office of Clinton county.

y. I**cr's Valley,** in *Pennylemia*, a post-office of Farm

Farmer's Valley, in Pennsylvania, a post-office of McKean co.
Farmer's Valley, in Tenn., a P. O. of Perry co.
Farmer's Valley, in Tenn., a P. O. of Perry co.
Farmersville, a post-village of Ontario, in the co. of Leeds, about 15 m. W. of Brockville.
Farmersville, in Georgia, a village of Meriwether co., about 100 m. W. of Milledgeville.
Farmersville, in Indiana, a post-village of Posey co., about 20 m. W. of Evansville, of Mahaska co.
Farmersville, in Indiana, a post-village of Lincoln co.
Farmersville, in Indiana, a post-village, cap. of Union parish, near the river d'Arbonne, about 250 m. N. N. W. of Baton Bonge.
Farmersville, in Missouri, a P. O. of Livingston co.
Farmersville, in Missouri, a P. O. of Buffalo.
Farmersville, in Missouri, a P. O. of Livingston co., about 10 m. S. E. of Millersburg.
A post-village of Montgomery co., about 80 m. W. by S. of Columbus.
A village of Ross co., about 10 m. S. of Chillicothe.
Farmersville, in Pennsylvania, a post-office of Lancaster county.
Eassmersville, in Term, a post-office of Collin co.

caster county.

Farmers ville, in Teres, a post-office of Collin co.

Farmersville, in Via, a former P. O. of Dodge co.
Farmers Village, in New York, a post-village of Seneca co., about 6 m. S. E. of Ovid. Now Farner.

neca co., about 6 m. S. E. of Uvid. Now Farner.

Farmer-viiie, in Pessaylvoraia, a village of Union co.

Also called Farmersville and Cowan.

Farmer'ery, s. In England, the buildings, out houses,
and all appurtenances for farming.

Farma house, s. The dwelling-house attached to a

farm.

'arma'ing, n. (Agric.) The business or management of a farm, comprising the entire circumstances and control of it. Once regarded as a profession easy to be understood, and requiring but little preparation for its successful practice, it has come to be viewed in a different and a wiser manner. It is a business that requires control and a wiser manner. and a wiser manner. It is a business that requires constant care and attention, as well as much activity and judgment, to conduct it in a proper and advantageous manner. It requires an intimate and practical knowledge of all the arts of cultivation and management, as well as of the nature and value of every kind of livewell as of the nature and value of every kin of live-stock; and, still further, a perfect acquaintance with the various modes of buying and selling, and the constant state of the different markets. It has been justly said that no pursuit requires more talent, perseverance, and careful observation, than the cultivation of the earth; that, so far from its being an empirical business, it is, in fact, one that several other sciences illustrate and assist fact, one that several other sciences illustrate and assist, one, whose professors cannot too often examine the practice of other cultivators; and hence, since it has been found that the labors of the chemist, the botanist, the mechanist, and the geologist, are all available in the service of the farmer, it has followed, as a natural consequence, that the farmers of our age are rapidly be-coming a more scientific, more educated, and far more enlightened class than those of any previous generation. In our own country, the cheapness of land and the fertility of the soil have too often induced a hasty and superficial culture, and a reckless expanditure of the resources of the soil. But this state of things is rapidly giving way to a more enlightened and scientific method of F., which looks not only to the greatest immethod of F., which looks not only to the greatest im-mediate results, but also to the perpetual recuperation

of the powers of the soil.

Farm'ingdale, in Maine, a township of Kennebec

Farmingdale, in New Jersey, a post-village of Mon-Farmingdale, in New York, a post-village of Queens

co. about 31 m. E. of New York.

Farmington, in Consecticut, a post-tinge of queens co. Farmington, in Consecticut, a post-town and township of Hartford co., on the Farmington river, about 10 m. W. by 8. of Hartford.

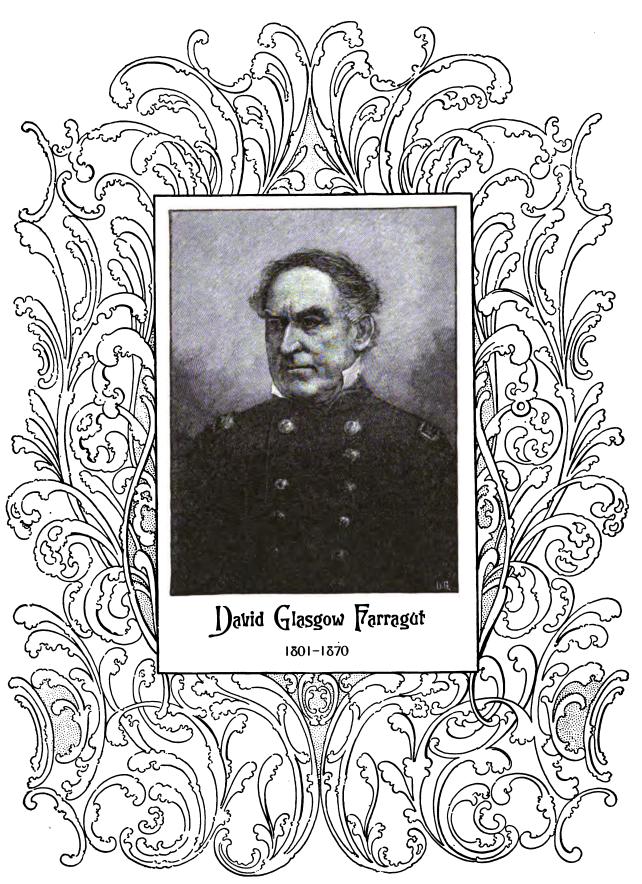
m. W. by S. of Hartford.

Farmington, in Delacere, a post-town of Kent co.

Farmington, in Georgia, a village of Clarke co., about 55 m. N. N. W. of Milledgeville.

Farm'Ington, in Illiania, post-village and township of Fulton co., about 24 m. W. of Peoria.

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Farm'ington, in Indiana, a village of Grant co., about 8 m. S. E. of Marion.

—A village of Hamilton co., about 26 m. N. by E. of

Indianapolis.

Indianapolis.

Farms'imgton, or New Farmington, in Isdiana, a village of Jackson co., about 20 m. S. of Columbus.

Farms'imgton, in Issae, a township of Cedar co.

A post-village and township of Van Buren co., on Des Moines river, about 30 m. N.W. of Keokuk.

Farms'imgton, in Kossae, a township of Republic co.

Farms'imgton, in Kossae, a township of Republic co.

Farms'imgton, in Maise, a post-village of Graves co., about 11 m. S. S. E. of Mayfield.

Farms'imgton, in Maise, a post-village, township and the cap. of Franklin co., on Sandy river, 35 m. N.W. of Augusta. Pop. (1897) about 1,350.

Farms'imgton, in Maryland, a post-village of Cecil co., about 45 m. N. E. of Baltimore.

Farms'imgton, in Michigun, a post-village and township of Oakland co., about 20 m. N.W. of the city of Detroit.

Farm'ington, in Minnesota, a post-vill. of Dakota co A township of Olmstead co.

—A township of Olimstead co.

Farm'ington, in Mississippi, a village of Tishemingo co., about 262 m. N. N. E. of Jackson.

Farm'ington, in Mississippi, a post-village, cap. of St. Francois co., 85 m. S. of St. Louis, on Iron Mt. R.B. In a rich mining region. Pop. (1897) about 1,500.

Farm'ington, in New Hampshire, a post-town of Strafford co., about 25 m. E. N. E. of Concord. There is a large rock in this township, estimated to weigh from 60 to 80 tona, and so accurately poised by nature that the pressure of a hand will cause it to vibrate.

Farm'ington. in New York. a post-town of Ontario

Farm'ington, in New York, a post-town of Ontario

co., about 20 m. S. E. of Rochester.

Farm'ington. in North Carolina, a post-township of
Davie co., about 120 m. W. of Raleigh.

Farm'ington. in Ohio, a village of Belmont co., about
7 m. W.N. of Wheeling, West Virginia.

—A post-township of Trumbull co.

Farm'ington. in Oregon. a post-village of Washington co., about 16 m. S.W. of Portland.

Farm'ington, in Pranyleania, a village of Butler
co., abt. 29 m. S. of Franklin.

—A township of Clarion co.

—A township of Clarion co.

—A township of Clarion co.

—A post-village of Fayette co., abt. 66 m. 8. E. of Pittsburg

—A township of Tioga co.

—A township of Warren co.

—A township of Warren co.

Farm'ington, in Transsec, a post-village of Marshall co., abt. 50 in. 8. of Nashville.

Farm'ington, in Texas, a post-office of Grayson co.

Farm'ington, in Utah, a post-village, cap. of Davis co., abt. 16 in. N. of Sait Lake City.

Farm'ington, in Wisconsin, a post-village and township of Jefferson co.

—A township of La Crosse co.

—A township of Washington co.

—A township of Washington co.

—A township of Wanpacca co.

Farm'ington, in Wisconsia, a post-village of Marion co.; abt. 10 in. W. of Fairmont.

Farm'ington Cen'tre, in Maine. See Famington.

Farm ington Cen'tre, in Pansylvania, a post-office of Tloya co.

of Tioga co.

Farm'ington Cen'tre, in Wisconsia, a former postoffice of Folk co.

Farm'ington Fails, in Maine, a post-village of
Franklin co., on Sandy River, abt. 30 m. N.W. of Augusta.

Farm'ington Hill, in Maine, a village of Franklin co.

Farm'ington Hill, in Pennsylvania, a post-office of
Tioga.

Farm'ington River, in Connecticut, enters the Connecticut River from Hartford co.

Farm'ington River, in Connecticut, enters the Connecticut River from Hartford co.

Farm'and, in Indicana. See Farmville.

—A post-vill. of Randolph co., abt. 17 m. W. of Union City.

Farm'-office, s. Any office or out-building used for farming purposes.

Farm most, a. Most distant or remote.

Farm Eldge, in Illinois, a post-village and township of La Balle county, about 8 miles S.S.W. of Ottawa.

Farm'stead, n. A homestead; a farm with all build ings, &c., inclusive.
Farms' ville, in Illinois, a former post-office of Wood

ford co.

ford co.

Parma'ville, or Farmland, in Indiana, a post-village
of Randolph co., about 8 m. W. of Winchester.

Parma'ville, in Tennessee, a post-office of Henderson co.

Parma'ville, in Virginia, a post-village, cap. of Prince
Edward'co., on the Appomattox river, about 68 m. W.

8.W. of Elchmond.

and died soon after at Arras, in 1592.—The line continued until 1731, when it became extinct in the person of Arronio F, the last prince of his House. The Furness Palace at Rome will be treated of under the head of Rome.

Far'mess, n. Distance; remoteness. (R.)

"Farm's atom of Bugland, co. Surrey, 38 m. S.W. of Loudon. Great quantities of hope are produced in the neighborhood. Farmhan Castle has been for centuries. ries the residence of the bishops of Winchester. about 7,500.

Farm ham, in New York, a post-office of Eric co.
Farm ham, in Virginia, a post-village of Richmond co
about 55 m. E.N.E. of Richmond.

Farnham Cross Boads, in Virginia, a post-office

Farnham Cross Roads, in Virginia, a post-omce of Richmond co.

Farnham East, a village of Lower Canada, co. of Shefford, about 15 m. E. of St. John's.

Farnham West, a village of Lower Canada, co. of Shefford, 14 m. E. of St. John's.

Far'numaville, in Massachusetts, a post-village of Worcester co., about 60 m. W.S.W. of Boston.

Farn'worth, a town of England, co. Lancaster, 3 m. from Bolton. Manuf. Cottons, &c. Pop. 21,000.

Farn'a assance tive of Portugal. on the S. coast of prov.

Fare werem, a town of England, co. Lancaster, 3 m. from Bolton. Manuf. Cottons, &c. Pop. 21,000.
Fare, a sea-port city of Portugal, on the 8. coast of prov. Algarve, on the Valfermosa, 45 m. E.S.E. of Lagos, and 20 m. W.S.W. of Tavira; Lat. 36° 59' 24" N., Lon. 12° 31' 18" E. Erp. Fruits, wine, cork, sumach, and anchovies. Pop. 9,000.
Fare, (Cape.) the N.E. point of the island of Sicily, serving to bound the narrowest part of the Strait of Messina; Lat. 38° 15' 50" N., Lon. 15° 40' 40" E.—Faro Crannel is a name sometimes applied to the Strait of Messina.

Crannel is a name sometimes applied to the Strait of Messina.

Fa'ro, a village of Brazil, prov. of Para, about 40 m. W. of Obidos.

Fa'ro, (or Pharaor.) n. (Games.) A game of chance at cards, said to derive its name from the figure of the Egyptian king Pharaoh, which was formerly upon one of the cards. It may be played by any number of persons, who sit at a table generally covered with a green cloth. The keeper of the table is called the banker. The player is called the punter (from It. puntare), who receives a livret or small book from which to choose his cards, upon which he may at his option set any number of stakes, which are limited in amount in accordance with the capital of the banker. The latter turns up the cards from a complete pack, one by one, laying them of stakes, which are limited in amount in accordance with the capital of the banker. The latter turns up the cards from a complete pack, one by one, laying them first to his right for the bank, and then to his left for the punter (or player), till all the cards are dealt out. The banker wins when the card equal in points to that on which the stake is set turns up at his right hand, but loses when it is dealt to the left. The player loses half his stake when his card comes out twice in the same stroke. The last card but one, the chance of which the banker claims, but which is now frequently given up, is called locly (a certainty). The last card neither wins nor loses. Where a punter gains, he may either take his money or paroli; that is to say, double his chance by venturing both his stake and gains, which he intimates by bending a corner of his card upward. If he wins again, he may play sept et le ra, which means that after having gained a paroli he tries to win sevenfold, bending his card a second time. Should he again he successful, he can paroli for quinze et le va, for trente et le va, and finally for soizante et le va, which is the highest chance in the game. F was formerly much in vogue in France, England, and Europe generally, and still retains its popularity in various parts of the world. A variety of this game is also much played by gamblers in the U. States. One hundred fare banks are said to exist in New York alone; there are also banks in almost all other American cities. The method of play in the U. States is as follows: The dealer, with a large carray of cheques as this right hand, representing a complete pack, affixed to it at convenient distance to mark distinctly the bet placed on each. Persons who wish to play, exchange at pleasure money for such amount of cheques as they desire to risk, carda, representing a complete pack, affixed to it at convenient distance to mark distinctly the bet placed on each. Persons who wish to play, exchange at pleasure money for such amount of cheques as they desire to risk, and place the amount they intend to stake on any particular card upon the table. The dealer then produces a pack of cards and shuffles them (the option of shuffling resting also with any of the players who call for it), has them cut, and then places them in a box, from which, one by one, he deliberately slides them. The banker loses when the card equal in points to that on which the take is set turns up on his right, but wins when it is on the left. But it is in the power of the player, by placing a small copper on the amount he place on the card, to reverse the chance. This, which is called coppering, enables the player, in fact, to bet on whichever card he pleases. The dealer stops between each two cards, while new bets are being made, or cheques change from one card to another; and thus the game proceeds to the close of the pack, when a fresh deal is made, and the same process is gone through. The banker wins on "splits," which is supposed to be the only odds in its favor, but it possesses others in its superior amount of capital, and in the inclination of most players to stake heavier in the effort to recover back than to support good luck. In Germany, the cards are not dealt out from a box, but nailed to a fine board and torn off one by one by one by the dealer. Here, the dealer is generally assisted also hy one or two croupiers, who attend to the playing and receiving, guarding against errors, and shuffling the pack. Farme'se, the patronymic of an illustrious and princely Italian Illouse, which arose about the middle of the 13th cent. Of its principal members were the following:

F. ALESSAYDEO, Cardinal, raised to the tiara under the title of Pope Paul III., in 1534, who created his natural son, Pixtra, duke of Parma and Piacenza.

J. ALESSAYDEO, great-grandson of the preceding, was a 1846. He early entered upon the profession of arms, and distinguished himself at the battle of Lepanto (1571) under his uncle, the famous Don John of Austria, (q, r.) Philip II. afterwards appointed him governor of the Netberlands, where he waged war against the Prince of Orange. He was subsequently made commander-inchief of the sarmy sent to the assistance of the French Catholics, and compelled Henry IV. to raise the siege of Paris: but, being ill-supported by the League, he was sventually obliged to succumb to his great adversary,

Sweden; Lat. 57° 56' N., Lon. 19° 32' E. It is in length

Sweden; Lat. 57° 56' N., Lon. 19° 32' E. It is in length 10 m., with a mean breadth of 3, and has on its K. side a village of the same name.

Far'oe, FER'OE, FAR'OE, OF FAR'OER, Islamda, a group of 22 islands belonging to Denmark, lying in the Northern Ocean, between Lat. 61° 15' and 62° 21' N., and Lon. 6° and 8° E,; about 185 m. N.W. of the Shetland Isles, and 320 S.E. of Iceland. The principal island, Stromee, in the centre, is 27 m. long by about 7 broad; the chief of the others are Octoree, vaague, Bordee, Sandee, and Suderoe. Total area, 496 sq. m. Only 17 of the islands possess inhabitants. Dec. Each of these islands is a lofty mountain rising out of the waves, and divided from the others by deep and rapid currents. The highest point, Skoelling, in Stromee, has an altitude of 2,240 feet. Some of the group are deeply indented with deep and secure harbors; all are steep, and most of them present, seawards, a succession of sheer precipiese. Soil, thin, but tolerably fertile; barley is almost the only cereal grown. Prod. Hay in large quantities, salted mutton, tallow, feathers, elderdown, &c. Monuf. Coarse woollen stuffs, and stockings. Vast quantities of seafowh haunt the rocks, the taking of which for the sake of their feathers affords a perilous employment to the habitants. (In: Thorshayn at the SE end of Stre. of their feathers affords a perilous employment to the inhabitants. Cap. Thorshavn, at the S.E. end of Stromoe. These islands are under the jurisdiction of a Danish governor, and have belonged to Denmark eince the union of that kingdom with Norway, in the 14th cent.

cent.

Faro'čiite, n. (Min.) A variety of Thompsonite, q. v.
Far'off, a. That is to a distance.

Far'-piercing, a. Penetrating a great way.

Farquhar, (/ar/kvoar,) Gronce, a British dramatist, B. in Londonderry, Ireland, 1678, and educated at Trinity College, Dublin. He is the author of some of the finest of the old comedies, many of which still keep the stage as perennial favorites. Of these we may mention Sir Harry Wildair, The Inconstant, The Recruiting Officer, and The Beaux Stratagem. D. 1707.

Farrag'inous, a. Formed of various materials; diverse; compounded.

Farrag'go, n. A medley; matter composed of various

verse; compounded.

Farrago, n. A medley; matter composed of various materials; a confused mixture.

Farragut, David Glassow, a distinguished American admiral, was B. in Tennessee, on the 6th of July, 1801, was appointed, without previous training, a midshipman as early as 1810. Under Com. Porter he was egaged in the Essex in her cruise against the British in 1812-14, and, after her capture, he served on board the line-of-battle-ship Independence. Passing his examination with credit, he was ordered, as lieutenant, to the West India station, and was appointed, in 1847, to the command of the Saradoga (20 guns), in which ship he took part in the naval operations during the Mexican war. When the Civil War broke out, F. received the

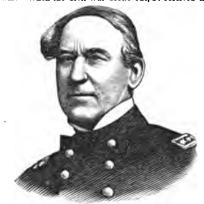


Fig. 993. - ADMIRAL PARRAGUT.

Fig. 993. — ADMIRAL PARRAGUT.

command of the Guif squadron which was to coöperate with Gen. Butler in the reduction of New Orleans, and engaged and passed the two strong forts of the Mississippi in April, 1862, which brought about the surrender of that city on the 28th of the same month. Natches was taken in May, and P.'s fleet ascended as far as Vicksburg, which place he bombarded until the fall of water compelled him to return to New Orleans. In 1862 he was the first officer to receive the rank of admiral in the U. S. navy: and in March, 1863, he passed the batteries of Port Hudson, and was in a few days again before Vicksburg, coöperating with Gen. Grant in the reduction of that important stronghold. Having been ordered to attempt the capture of Mobile, he took the forts commanding the mouth of that harbor in Aug., 1864, with the loes, however, of one of his iron-clads, the Tecumach, and its crew, by the explosion of a torpedo, and met with a repulse in an attack upon Wilmington, Dec. 24-25. The place was, however, taken, Jan. 15, 1865, and Mobile surrendered on the 12th of April following. The naval successes gained by the Nationals were in a great measure due to the energy and daring of this gallant officer. F. served in U. S. navy 60 years, about 12 of which only had he been unemployed on sea. In 1865, P., in command of a U. S. squadron, visited many European ports, returning in 1868, after receiving the highest courtesies abroad. D. Aug. 14, 1870. Statues to his memory have been receted in various parts of the U. S. See Life of, by his Son, N. Y., 1879.

Farrand, n. Manner; custom; fashion. (Local Eng.) Far rang, n. Manner; custom; fashion. (Local Eng.)
Far'rier, n. [Lat. ferrarius, a blacksmith.] One who
shoes herses; one who professes to cure the diseases
of horses and cattle; a veterinary surgeon.
Far'riery, n. The art of shoeing horses; but the
term is also applied to the art of preventing, curing, or
alleviating the disorders to which horses and cattle are

FASC

alleviating the disorders to which horses and cattle are entiject. The latter portion of the farrier's art is now allevinance and the latter portion of the latter period of the latter portion of the latter period vertically formed vertically formed vertically formed of the latter of pige; as, a farrow of ten.

—r. a. and a. To bring forth young; — used exclusively

Far'row, a. [A. 8. fearr; Ger. farre, a steer.] Barren of young within a stated period; not producing calves at an expected time; as, the cow has gone farrow.
Far'row's Mill, in Kentucky, a P. 0. of Mason co.

Par'row's Mill, in Kentucky, a P. O. of Mason co. Far'rowsville, in Virginia, a village of Fauquier co., abt. 130 m. W. i.y N. of Richmond.

Fars, or Farsistan'. (Anc. Peris.) A province of Persia, lying between Lat. 22° and 32° N., and Lon. between 50° and 55° E. It is bounded N. by Irak, E. by the prov. of Kerman, W. by Khuzistan, and S. by the Persian Guif and Laristan; length N. to S. nearly 300 m.; breadth, 200 m.; area, perhaps abt. 55,000 sq. m. Dezc. The southern portions of this prov. are hot and sandy; the northern full of mountains, on which are found a great number of wild hogs and wild cats. The centre is fertile, and generally well cultivated, producing rice, fruit, corn, dates, cotton, opium, tobacco, attar of roses, wine, and silk. Large herds of cattle are reared, and the horses, asses, and camels are of excelent breeds. Mis. Iron, lead, marbles, emeralds, naphtha, salt, and borax. The inhabitants are, for the most part, among the most civilized and industrious in Persia; they manufacture fine woollen, silk, and cotton part, among the most civilized and industrious in Persia; they manulacture fine woollen, silk, and cotton stuffs, camel skins, &c., for exportation, chiefly to India. Chief towns. Shiraz (the cap.), Bushire, Kazeroun. In this prov. are the ancient ruins of Persepolis. F. was the ancient patrimony and kingdom of Cyrus the Great, previous to his foundation of the Persian empire. Pop. abt. 2,000,000.

Far'alginted, a. Capable of seeing or of observing objects at a great distance.

pire. Pop. abt. 2000,000.

Far'-sighted, a. Capable of seeing or of observing objects at a great distance.

Far'-sightedness, n. The quality or capacity of seeing objects at a distance.

Far'-stretched, p. a. Extended beyond the ordinary limits.

Fart, n. [Sax. feart.] Emission of wind from the bowels through the anus.

bowels through the anis.

-v. a. To break wind; to emit wind from behind.

Far'ther, a. [A. S. foorth; C. foorther, from far, of which it is the proper comparative.] More remote; tending to a greater distance; longer.

-v. a. To promote, facilitate, or advance.

-adv. Beyond; moreover; by way of progression.

Far'thest, a. [Ger. fürdest, superlative of für.] Most distant; most remote.

-adv. At the greatest distance; most remote.

-adv. At the greatest distance; most remote.

—ade. At the greatest distance; most remove.
Far'thing, n. [A. S. foothung.] (Antiq. and Numis.)
The fourth part of a penny, or integer, anciently called fourthing. F. of gold was a coin used in ancient times. The fourth part of a penns, or integer, anciently called fourthing. F. of gold was a coin used in ancient times, containing in value the fourth part of a noble, or twenty pence in silver, and in weight the sixth part of an ounce in gold. F. were coined in silver by Henry VIII., 1522: in copper by Charles II. F. among the Romans was a small piece of brass money. In the English version of the New Testament both assarion and quadrans are rendered F., but they were not similar; for the former was the tenth part of a Roman denarius, or about three farthings (1½ cents), and the latter was equal to two mites, about a fifth of the farthing. "Date obolum Belisario"—"Give a farthing to Belisarius," is a phrise sometimes applied to fallen greatness, from the popular tradition that Belisarius had been reduced to beg in his old age.

Far'thingale, Far'dingale, n. [Fr. vertugadin; Port. verdugada.] (Cutume.) A name given to the hoop of whilebone used formerly by the ladies of this and of European countries to spread out the petition to a wide circumference, (see Fig. 723.) It was introduced into England in the reign of Queen Elizabeth, and continued to be used on state occasions down to the commencement of the present century. The hoop or crinoline, q. v., is a modernized form of the farthingale.

Far West, in Missouri. a post-village of Caldwell co., abt. 150 m. N.W. of Jefferson city.

F.A.S. [Lat. paternitatis antiquariorum socius.] A Fellow of the Society of Antiquaries.

Fas'eet, n. (Glas-making.) A rod thrust into the mouth of a bottle in the operation of glass-blowing, to convey the article to the annealing furnace. (Also called punity rod, or pantic.)

rod, or puntie.)

A, n. [Lat. fuscia; Sp. fuja.] A band, sash, fil-

Fau'cla

let, or stripe.

(Anat.) The fibrous expansion, sometimes called apon rosis, which invests, as in a delicate sheath, the muscles

ross, which invests, as in a delicate sheath, the muscles.
(Arch.) See Facts.
(Astron.) The belt of a planet. (c.)
Fascial, a. Belonging to the fasces, q. v.
Fasciate, a. (Bot.) Banded or compacted together;
flattened, or rendered compressed.

Fasciated. a. Bound with fillets.

(Bot) Fuscinte.

Fas'ciation, n. The act of binding with a sash, fillet, or bandage; the manner of binding up.

Fas'cicle, n. [Lat. fasciculus.] A small collection; a

Fas'cicle, n. small bundle.

small ouncie.
(Bot.) A tuft or cyme where the flowers or the roots are very much tufted or crowded upon each other, as in the larch-tree or dahlia.

Fasces. (face's.) n. pl. [Lat.] (Rom. Antiq.) The emblematical weapons used by the Romans, and borne by the Lictors before consuls, practors, emperors, and magistrates both civil and military. The word in the singular signified a bundle of sticks, a fagot, or large bavin; the F. were a certain number of peeled rods, about three feet long, and all the same length, bound firmly, and in a neculiar meanors, together round

peculiar manner, together round the long shaft of a battle-axe, so that the blade of the weapon pro-truded some short distance above truded some short distance above the top of the fagot, while the lower end, with its ferule of spike, coming through the other end, afforded a handle for the lictor to grasp it by as he carried the cylindrical part on his shoulder. The F. were illustrative of the very ancient fable of the old man and the bundle of sticks, and being always borne before the magistracy of the city and empire, were typical of the unity and strength of the Roman constitution, and of the integrity and construcstrength of the Roman constitution, and of the integrity and construction of the commonwealth, which, though made up of many parts, weak in themselves, was resistless while bound by unity and concord; the axe above was at the same time significant of the power both is to defend and punish. The F. were not, however, by any means mere emblematical trophies, or, like the modern English mace and sword, Moron only insignia of office, but were actual instruments of punishment; a sy

only stanging of omee, but were a switch drawn from the bundle was used by the lictor in administering flagellation on the back, thighs, and feet, according to the amount of punishment ordered by the tribune or magistrate before whom the offender was heard and adjudged; while in graver cases, treason or capital offences, the lictor became the hearisman, and the axe of he fasces the instrument of decapitation.—See Licror. S'eicled, a. (Bot.) Tufted together; crowded on

Fascic'ular, a. [L. Lat. fascicularis.] United in a

pounde.

Fascic'ularly, adv. In the form of bundles.

Fascic'ularle, Fasciculated, a. (Bot.) Growing in a bundle from a common point, as the leaves of the larch (Fig. 995), the

tubes of the dahlia, &c.

Fascic'ulus, n.; pl. Fascicul. [Lat., a little bundle.] A small bundle.] a fascic.—Any separate part of an unfinished book.—A uosegay; a bunch of flowers.

of lowers.

(Bot.) A fascicle.

Fas'cimate, v. a. [Fr. fasciner, from Lat. fascinare, allied to Gr. baskariseis.] To bewitch; to enchant; to influence in some secret or wicked manner; to enrapture; to captivate; to charm.

Love and envy fascinate and bewitch." Bacon

"Love and eavy faccinate and bewitch." Bacon.
Fas'cinated, p. a. Bewitched; enchanted; charmed: cuptivated.
Fas'cinating, p. a. Charming; enchanteg; bewitching.
Fascinatio.] The act of fascinating, or the state of being charmed, operated upon, or influenced by the look of certain individuals; generally taken in an evil sense.

Biscination is the power supposed to be processed by certain for the state of the control of the power supposed to be processed by certain for the state of the control of the power supposed to be processed by certain for the state of the control of the power supposed to be processed by certain for the state of the control of the power supposed to be processed by certain the state of the control Fuscination is the power supposed to be possessed by certain persons of working mischief to others by means of a glunce of the eye. Among the Romans the god Fuscinus was invoked as a protector against this influence. It was, and is perhaps to this day, a common belief among the vulgar in almost all countries; but probably the common belief. among the vulgar in almost all countries; but probably it is nowhere more generally retained than in Turkey and Italy. In the former country, the Mussulmans deem it necessary to have recourse to a variety of amulets and charms, in order to preserve themselves from the evil eye of an enemy, or of an infidel. In Naples, the evil eye and its fascination (known to them by the name of gettatura) are subjects of dread and superstitious presention sungrap all classes of the propule.

caution among all classes of the people.

Fascine, (fas-seen',)n. [Fr., from Lat. fasces, q. v.] (Mil. A species of long fagot or bundle of brushwood, used A species of long fagot or bundle of brushwood, used for various purposes; such as forming the rivetments of parapets in field-works, and making the roof of a blindage or magazine, which may be rendered bomb-proof by covering the F with a sufficient depth of earth. They are also used for making roads over wet, boggy ground. The fuscine is made of twigs, and sticks laid control to the sufficient land the sticks and sticks and sticks that ground. The fascine is made of twigs, and sticks laid together longitudinally, and tightly bound with twisted willow- or lazel-rods, at intervals of 15 or 18 inches. They are usually made 18 or 20 feet in length, and about 9 inches in diameter. When they are used for the rivetment of a parapet wall, they are secured by driving long stakes through them into the bank of earth against which they are placed. F. are also used in civil engineering for making dama, protecting the sides of dikes, and in forming foundations for any superstructure, as well as earthing for banks, and a bottom for newly made roads. They are shorter and much thicker than the military fascine, seldom exceeding 10 feet in length, but often being as much as 4 feet in diameter. They are placed side by side over the spot it is desired to cover, and side by side over the spot it is desired to cover, and pinned to the soil beneath with long stakes, the tops

of which are connected by means of rods interlaced between them. When this has been done, earth and stones are thrown on the top of the F. Sometimes areas of outsiderable extent are covered in this manner; and which the surface on which they are to rest is under water, the F. are connected and floated over the spot, and then sunk into the desired position by stones and gravel placed on them; after which the necessary works may be constructed. structed

structed.

Fasciola ria, n. [Lat. fasciola, n small bandage.]

(Zoil.) A genus of Mollusca, family Muricide, found in
the Indian and American seas. some of which are very
beautiful. Shell fusiform, and not very thick; opire of
moderate length, conical, consisting of a few rounded
or angulated whoris; aperture wide, terminating in
a long, straight, open canal; columellar lip with several
oblique folds; operculum horny, pyriform.
Fash, v. a. [Fr. fdchr, from Lat. fastidiare.] To ver,
tease, or trouble.

— Verstion: trouble: care.

tease, or trouble,

—n. Verstion; trouble; care.

Fashiom, (fash'um,) n. [Fr. façım, from Lat. facio, to make. See Facil.] The make, mould, style, or form of anything; the state of anything with regard to its external appearance; shape; model to be imitated; pattern; as, the fashion of a head-dress, the fashion of a house, &c.

'I do not like the fushion of your sarmer ts." Prevailing mode of dress or ornament; conventional observance of customs, manners, or etiquette; prescribed form of social usages; genteel lile; good breeding; reigning mode or practice of style, dress, or manner; as, a man of fashion, crinoline is in fashion, a strange fathion, &c. (See Dams.)—Sort, way, mode, or method of action, conduct, manner, custom, deportment, &c.; general practice of performing anything; as, he did it after his own fashion.

er, from Lat. facio.] To give form, shape, r.a. [Fr. faconner, from or figure to; to mould.

"Here the loud ham: -To fit; to adapt; to contrive; to adjust; to accommodate;

— preceded by to.

"This cardinal was fashioned to much honour from his cradic."

To make after the style, rule, or mode prescribed by

custom; as, to fashion a coat.

Fash'ionable, a. Made according to prevalent form or mode; established by custom; modish.—Genteel; well-bred; out-ranking the vulgar.

n. A person frequenting good society, and conversant with the usages thereof.

Fash'ionably, adv. According to custom or prevail-ing practice; modishly; genteelly. Fash'ioner, s. He who gives shape or form to any-

Fash'ioner, n. in was a substanting.
Fash'ionist, n. One who follows obsequiously the fashions or prevailing modes.
Fash'ion-mon'ger, n. One who follows the fashious; a dandy; a swell; a fop.
Fash'ion-piece, n. (Null.) The plate which covers in the stern of a vessel, and forms its entire slamp.
Fas'saite, n. (Min.) A grass-green variety of Pyrounus,

Fast, a. [A. 8. fest; Ger. fest, firm.] Firm; solid; unbroken; set or pressed close; tight; immovable; firmly fixed; deep; sound; adhering clow-ly; profound.

—de. Firmly; solidly; fixedly.—8wiftly; repidly; quickly.

—In a dissipated manner; extravagantly; prodigally; as, to live fast.

—o. n. [A. 8. festan, to keep, to guard, to fast.] To abstain from eating and drinking; not to take the usual or requisite amount of food; to go hungry.—To mortify the body by abstinence, as a religious duty.

Fast, n. A total or partial abstinence from food. (See Huxora.)—The time of fasting, or during which we fast.—The rope by which a vessel is fastened to a wharf. (Ecc.) The word fast is more usually applied to a religious observance,—the abstinence from food for a time, in order to "afflict the soul." and to increase a devotional feeling in the mind. Religious fasting may time, in order to "afflict the soul," and to increase a devotional feeling in the mind. Religious fasting may be said to have been practised in all ages and countries where any devotional feeling prevailed.—among the ancient Egyptians and Assyrians, as well as among the Hindoos and Molammedans of the present day. In the law of Moses we do not find much reference to fasting; and some are disposed to think that it was among those things which Moses allowed rather than originated, hore with rather than annuaved as leging an old and wall. which moses allowed rather than originated, bore with rather than approved, as being an old and well-stablished practice. Of this, however, there does not seem to be sufficient evidence; and even though there were, we should not regard it as an argument against fasting, but that it arose from a fear that what ought to allowing. seem to be sufficient evidence; and even though there were, we should not regard it as an argument against fasting, but that it arose from a fear that what ought to elevate and refine the inward feelings might degenerate into an empty outward ceremony. There is but one F. enjoined by Moses. On the 10th day of the 7th month, the great day of annual atonement, they were to "afflict their souls," a phrase which doubtless points to abstinence from fond, as indeed is shown by the later practices among the Jews. Other general fasts were in course of time introduced, as commemorative of great national calamities. The prophet Zechariah enumerates four of these as being observed in his day,—the fast of the 4th month, of the 5th, of the 7th, and of the 10th. (Zech. vilii. 19.) On particular and signal eccasions, also common, especially among the later Jowa. The abstinence usually lasted for 27 or 28 hours, beginning before sunset, and not ending till some time after sunset the following day. On these occasions they put on sackcloth, and sprinkled ashes upon their heads, in token of their grief and repentance. Partial fasts were also occasionally observed on particular occasions by vertain





Fig. 994. OR WITH PASCES

of them: as when Daniel tells us that he mourned for full three weeks, and "ate no pleasant bread, neither came flesh nor wine in my mouth, neither did I anoint myself at all till three whole weeks were fulfilled." (Dun. x. 3.) Though fasting is not positively enjoined by Christ or his apostiles, we have evidence in the New Testament that it was practiced by the latter; and St. Paul, in enumerating what he had done and endured in the cause of Christ, says, "in watchings often, in lungar and thirst, in fustings often." (2 Cor. xi. 27.) In the earliest times we do not find mention of any public and solemn fasts being observed, except upon the anniversary and thirst, in fusitings often." (2 Cor.xi. 27.) In the earliest times we do not find mention of any public and colemn fasts being observed, except upon the anniversary of Christ's crucifixion. But in process of time fasts were gradually introduced, first by custom, and afterwards by positive appointment. Towards the close of the 3d century fasting came to be held in much greater esteem, from a notion that it served as a security against the machinations of evil spirits, who were believed to direct their efforts principally against the luxurious. Fasting came also to be regarded as the most effectual means of appeasing the anger of an offended Deity; and hence it came to be looked upon as an indispensable duty, and express laws were enacted regarding it by the rulers of the Church. As it became more general, the severity of it was relaxed, and a mere abstinence from fleshad wine was judged sufficient. (See Law?) The strict canonical fast allows only one meal in 24 hours. The distinction between the Protestant and the Roman Catholic view of fasting is, that the Catholic regards fasting as a means of grace, the Protestant only as a secul preparation for the means of grace. On the general subject of fasting, all must acknowledge that this restraint, even upon the innocent appetites of the body, is eminently beneficial in assisting the operations of the mind. It brings the animal part of our nature into greater subservience to the spiritual. It tends to prevent that heaviness and indolence of the faculties, as well as that perturbation of the passions, which often proceed from induigence and repletion of the body. It is thus highly useful in promoting that calmness of mind and clearness of thought which are so very favorable to meditation and devotion. In the practice of fasting, then, the intelligent Christian will not rest in the outward act, but regard it only as a means to a good end. good end.

good end.

Past'-day, n. A day for fasting.

Fastem, (fas'sn,) v. a. [A. S. fastan; Ger. festigen, from fest, firm, stable.] To make fast: to fix firmly, closely, or immovably: to hold; to lock; to bolt; to bar; to cament or unite together; to stick; to liuk. To draw and fasten sundered parts in one." - Dos

Fast'em, r. n. To seize and hold on; to fix; to take firm hold: to attach or fix one's self. 'He fastened on my neck; and believed out, as he'd b

"Ho factoned on my neck; and believed out, as he'd burst heaves"—Shahs.

Fast'emer, n. One who sticks, fastens, or stamps.

Fast'emers, n. One who sticks, fastens, or stamps.

Fast'emers, n. One who sticks, fastens, or stamps.

Fast'er, n. One who abstains from food.

Fas'ti, n. pl. [Lat., from fastens, fixed, t. e. fixed day.]

(Roman Antiq.) Numa Pompilius (s. c. 716—s. c. 673)

instituted the custom of marking monthly records of the feasts, games, &c., observed at Rome, on tables of stone. These, preserved by the priests, became the calendar by which the course of public business and of justice was regulated. C. Flavius copied these Fasti, s. c. 306, and exhibited them in the Forum in and they subsequently became a kind of abridged annals, recording the names of public magistrates and the most important political events. A series of marble tables of Fasti, relating chiefly to the holders of the consular dignity, was discovered buried in the Forum in 1847. Additional portions were dug up in 1817 and 1818.

Fastid'iouns, a. [Fr. fastidieux; Lat. fastidiosus—fastus, arrogance.] Delicate to a fault; squeamish in fancy; difficult to please; dainty of choice; over-nice; suited with difficulty; as, a fastidious taste.

Fastid'iounsly, adv. Disdainfully; contemptuously; equeamishly.

Fastid'iounsless, n. Squeamishness of mind, taste, or appetite; contemptuousnes; disdairfulness.

Fastig'iate, or Fastig'iated, a. [Lat. fastigiatus.

Fanish: Seminous, 7. Squeaminness of mind, faste, or appetite; contemptiousnes; disdairfulness.

Fantig'inte, or Fantig'inted, a. [Let. fastigiatus, from fastigiam, the top, summit.] Narrowing toward the top; roofed.

from fastiguam, the top, summer; the top; roofed.

(Bot.) Upright and close; parallel; pointed, as the branches of the Lombardy poplar.

Fastigiums, n. (Arch.) The apex, summit, roof, or ridge of a house or other edifice; the pediment or support.

Fasting. n. Act of abstaining from food.

Fasting-day, n. A day of religious mortification and hamiliation.

humiliation.

Fast'ly, adv. Surely; firmly.
Fast'ness, s. [A. S. fastenes, a walled town.] Firm
adherence; strength; security; fathfulness.

A fortified place; a fortress, fort, or castle.
Fast'ness, a. [Fr. fastness; Lat. fastnesss, from fastas, pride.] Haughty: proud; disdainful.
Fast, a. [A. S. fet, fat; Ger. fett.] Fleshy; plump;
corpulent; coarse; gross; dull; heavy; stupid. — Producing a large income; fertile; productive; fruitful;
nourishing; abounding in spiritual grace or comfort.

"The libraries a shall be made fat." — Prov. xi. 25. "The liberal soul shall be made fat." - Prov. xi. 25.

(Typog.) Easy to print; affording light work to the posetter; as a page having many blank spaces is said

(13poy.)
type-setter; as a page having many common to be fat.

Fat. s. The unctnous, concrete part of animal flesh; solid animal oil; the best and richest part of anything.
(17poy.) Work containing much blank space.
(Chem.) Fats are very important compounds, and so passivy connected with the fixed oils, that the properties

of both will be considered under one head. Together, they form a well-defined natural group of organic compounds, occurring abundantly in both the animal and vegetable form a well-defined natural group of organic compounds, occurring abundantly in both the animal and vegetable kingdoms. They vary in consistence from thin oil, as olive-oil, to hard fat, as suet. When pure, they are neutral, and leave a greusy spot on paper, which does not disappear when moderately heated. Although, in common language, we speak of coal oils and essential oils, neither of these must be confounded, chemically, with the true fixed oils. The vegetable fats and oils are found in various parts of the plants, but most abundantly in the seeds. The seeds of the Cruciterse especially yield a large quantity of oil; rape-seed, for instance, containing from 30 to 40 per cent. In warm-blooded animals, fat is found distributed through most parts of the body, while in fish and cold-blooded animals generally, its place is taken by oils. Fats and oils are extracted from animal and vegetable matter by simple pressure or by boiling. They are all lighter than water, their specific gravity varying from 0-vl to 0-94. They are all soluble in ether, benzole, and turpentine, and may be mixed with each other in any proportion. They are insoluble in water, and only to a certain extent in alcohol. They may be heated to 500° without undergoing any change; but on distilling them, they evolve acrid products, and are resolved, at a red heat, into inflammable graces and vapors of high illuminating power-lience the term fixed oils. They consist of a mixture of at least three proximate principles in different proportions, two of which, stearris and palmatin, are solid at ordinary temperatures, and the third, olein, which is liquid. The proportions in which olein is present constitute the real difference between a fat and an oil. Some of these oils are little affected by exposure to their, but generally become rancid; others absorb oxygen, and form a resinous varnish, and are known as drying oils. When their surface is much extended, as in greasy oils. When their surface is much extended, as in greasy rags and cotton waste, this change is sometimes at-tended by spontaneous combustion, (see Oils.) When hydrated alkalies are added to fats or oils, a process

rags and cotton waste, this change is sometimes attended by spontaneous combustion, (see Oila.) When hydrated alkalies are added to fats or oils, a process takes place, termed sop-mification, or the formation of soaps, (q. v.) The principal oils used in daily life are olive-oil, the uses of which are well known; almond oil, from the kernel of the common almond; coltsu oil, used for illuminating purposes, obtained from the Brassica okcifera; linesed oil, sperm, whole, and cod-lver oil. The solid fats are cocca-nut oil, which is nearly solid at ordinary temperatures, palmovil, butter, lard, tallow, and suct. (Physiol.) This formation, so necessary to the healthy organism of the body, is generated in the system by the conversion of fibrin and albumen into adipose tissue. Though fluid in the living, it becomes solid in the dead body. The use of fat is of the utmost importance to the health, as being one of the chief agents in the generation of heat. It is on account of this important use that all hibernating animals become fat during their season of activity, and so emaciated when rousing from their period of repose, or hibernation; the adipose tissue having become absorbed during their sleep to keep up the combustion by which animal heat is generated. Besides supplying fuel to this vital chemistry of the blood, fat performs many other services in the animal economy; it is deposited between the crevices of the nuscles, and is equally diffused over the surface of the body, between the flesh and the cuttle, giving that exquisite roundness to the frame which imparts such symmetry and hearty to the looks of all young persons, and to the absorption of which in advanced life we owe those hollows, cavities, and wrinkles, so antagouistic to beauty. The accumulation of fat in certain parts of the body, in considerable quantities, is another provision of nature to form resistant cushions to such parts, which, if unprotected by this contrivance, would be exposed to injury, or great inconvenience. Without the depth of adipose pain, if not danger, nor could we walk for any distance without suffering,—these fatty pads acting as shields to the muscles and network of nerves and arteries, supplying them with life and sensation. Fat also inbricates the joints and tendons of the body, and, in the same manner as the grease applied to the axies of locumotives and vehicles, allows the bones to play in their sockets, and the muscles to glide over each other without waste, danger, or friction. And, lastly, fat adds to the specific lightness of the body, gives an elasticity to the frame, and assists in keeping the body from sinking when immersed in the water. Thus it becomes evident that a certain amount of fat is actually necessary to the well-being of the body, and where such articles of det as in the laboratory of the system are converted into fat, as starch, sugar, or gum, are not taken in sufficient quantities, the want should be compensated for by the person consuming a due proportion of oleaginous matter with his animal food. In some constitutions, the power of eliminating fat from any kind of aliment amounts to with his animal food. In some constitutions, the power of eliminating fat from any kind of aliment amounts to what may be called a diseased action, for the adipose tissue is generated in such abundance, that the body often becomes, even in youth, oversied with fat, producing that state of corpulence called oberity, rendering the body sluggish and unwieldy, and materially interfering with the healthy function of the oppressed organs. Sometimes this deposition of fatty matter is internationly, and goes on without displaying any outward sign of excess, slowly accumulating round some organ; and when that is the case, it is generally at the sacrifice of its structure, the organ, as a consequence, becoming seriously endangered. The amount of fat necessary to health varies with the climate,—the lower the temperature in which a man lives, the larger the amount of

oleaginous food required, from the simple fact that the colder the air the more fuel will be required for the com-bustion in the lungs; thus, at the N. Pole, the quantity oution in the lungs; thus, at the N. Fole, the quantity of unctroom matter consumed can hardly be too great, while at the tropics it sinks to a minimum proportion. It is upon the principle that obeginous substances insure a full and perfect exidation of the blood, and a free respiration, that milk, and suet, and cod-liver oil are recommended as highly beneficial in consumption and affections of the sir-passage. For the discases generated by excess of fat, see Obesity.

Fat, v.a. To make plump or fisshy with abundant food.

"We fat all creatures also to fat us." — Shaks.

—n. n. To become fleshy or plump; to grow fat.

Fa'tal, a. [Fr., from Lat. fatalis, from fari, to speak, to tell.] Necessary; inevitable; appointed by fate or

Deadly; mortal; destructive; calamitous; said of a

destiny.

Deadly; mortal; destructive; calamitous; said of a weapon, act, time, event, or purpose.

Fa'talism. n. The belief in an overruling fate or destiny which annihilates free-will and controls all human actions. For the philosophical doctrine of F, see Necesity; for those religious opinions which have assumed a similar character, see PREDESTINATION.

Fa'talist. n. One who maintains the doctrine of fatalism.

Fatalist, n. [Fr. fatalité; Lat. fatium.] Proceeding from fate or destiny; by inevitable necessity; independent of free and rational control.

—Tending to destruction, danger, or death: mortality.

Fa'tally, adv. By decree of fate or destiny; by inevitable necessity of determination.

Fa'talmess, n. Invincible necessity.

—Mortally; destructively; ending in death or ruin.

Fa'talmess, n. [It: called also Custles of the Fuiry Morgana, the spectacle being supposed to be under the influence of the queen of the fairies. La Fee Morgan of popular legends.] A remarkable phenomenon of mirrogs or atmospheric reflection mentioned by different authors and travellers as seen in the straits of Messina, especially in the vicinity of Reggio. It exhibits in the air, over the surrounding coasts.

Fatchabe, an island belonging to the empire of Japan,

surface of the sea, multiplied images of the objects on the surrounding coasts.

\*atchle/\*, an island belonging to the empire of Japan, lying in the Strait of Corea. N. Pacific Ocean, in Lat. 36°
20' N., Lon. 12° 30' E. This island receives deported Japanese state criminals.

\*ate, n. [It and Span. fato; Lat. fatum, from fari, to forstell or declare.] An oracle or prediction; destiny; inevitable necessity; dependence upon a superior and uncontrolled cause; event predetermined.—See DESYINY, FREE-WILL NECESSIVY, PREDESYINATION. Free-will, Necessity. Predestination.
-Destruction; doom; death; final lot.

"Yet still he chose the longest way to fate, Wasting at once his life and his estate."—Dryden

Fat'ed, a. Decreed; doomed; destined; modelled or

Fat'ed, a. Decreed; doomed; destined; modelled or regulated by fate.
Fate'ful, a. Bearing deadly power; producing fatal or destructive results.
Fate'fulness, n. State of being fateful; fatality.
Fate'fulness, n. State of being fateful; fatality.
Fate'fulness, n. Bate of being fateful; fatality.
Fate'fulness, n. pl. (Myth.) The Destinies; the Parcz, q. v.
Fa'ther, n. [A. S. fader; Ger. vater; Lat. pater; Gr. pater; Pers. padar.] He by whom a child is begotten; the next or neurest male ancestor; male parent. —The progenitor of a race or family; the first ancestor: as, "David slept with his fathers." (1 Kings ii. 10.) — A term of respect applied to aged, reverend, or venerable men, especially to ecclesiastics of the Roman Catholic Church. (pl.) An appellation applied to the ecclesiastical writers of the 1st century. —The Supreme Being; the first person of the Trinity. —He wing gives origin, produces, or contrives; the first of a series; a distinguished writer, example, or teacher.

Tubal Cain was the father of all those who work in iron."

Genesis iv. 10.

Fa'ther, v.a. To adopt; to take the child of another as one's own; to adopt anything as one's own; to pro-fess to be the author; to charge to one as his offspring or production; as, to father a child on a man.

"Men of wit Often fathered what he writ."—Swift. Fa'therhood, n. The state of paternity; the character or authority of a father.

Fa'ther-in-law, s. The father of one's husband or

wife.

Father-John, n. (Zoül.) See ABOU-HANNES.

Father-lasher, n. (Zoül.) See Corrus.

Fa'therland, n. The native country of one's ancestors.

In the United States it is popularly, if not exclusively.

Proland haing called the mother. applied to Germany, - England being called the m

country.

Fa'therless, a. Destitute of a living father; not having a known author; as, a widow and her fatherless children, a fatherless work.

Fa'therlessness, n. The condition of being without

Fa'therliness, s. Parental kindness, care, or tender-

Fa'ther-long'legs, n. (Entom.) The crane-fly. See

Fa'therly. a. Paternal; tender; protecting; careful;

Fa'therly, a. Paternal; tender; protecting; careful; similar to a father in care and protection.
Fa'therly, adv. After the manner of a parent.
"To whom thus Adam, fatherly displeased."—Milton.
Fa'thership, n. State of paternity.
Fathers, (The.) (Eccl. Hint.) A name applied to the early writers of the Christian Church — those writers who have given us accounts of the traditions, practices, &c., that prevailed in the early Church. The term is mostly confined to those who lived during the first six

centuries of the Christian sera, and no writer is dignified with the title of father who wrote later than the 12th century. They are frequently divided into the Greek Fat'ling, n. A young animal, as a lamb, kid, &c., fat-tail Ld'in F, and those who fiourished before the Council of Nice, in 225, are called the ante-Nicene F. The chief F. of the first six centuries were as follows: In the chief F. of the first six centuries century. They are frequently divided into the Greek and Latin P; and those who flourished before the Counterly and Latin P; and those who flourished before the Counterly for the greek P; are called the ante-Niceae P. The chief P, of the first six centuries were as follows: In the 1st century flourished Clement, bishop of Rome, and Ignatius, bishop of Anticoh; in the 2d century we have Polycarp, bishop of Smyrns, Justin Martyr, Hermis, Dionysins bishop of Anticoh; Ireneus, bishop of Lyons, Clement of Alexandria, and Tertullian; in the 3d century, Minneius Felix, Hippolytus, Origen, Cyprian, Dionysins, bishop of Alexandria, Gregory of Hammaturgus, Maternus, Hilary, bishop of Alexandria, Cyril of Jeruss, Athanasius, Basil Ephraim the Syrian, Cyril of Jeruss, Chrystom, bishop of Missan, Sinkop of Salamis, Chrystom, bishop of Missan, Ephrana, bishop of Salamis, Chrystom, bishop of Mopenestia, Augustine, Cyril of Alexandria, Vincent of Lerins, Isidore of Pelusium, Theodoret, bishop of Thapsus; in the 6th century, Proceptus of Hammaturgus of Cyrus in Syria, Leo I, surnamed the Great, Virgilius and Israel and Isr of Cyrus in Syria, Leo I., surnamed the Great, Virgilius, bishop of Tiapaus; in the  $\theta h$  century, Procopius of Gaza, Aretas, Gregory, bishop of Tours, and Gregory I., surnamed the Great, bishop of Rome. The last of the  $F_1$  is Bernard of Clairvaux, who died alsont the middle of the 12th century. Learned men and theologians differency much in opinion as to the value that is to be attached to the writings of the F. By some they are kooked upon as nearly of equal authority with the Sacred Scriptures themselves, and as the most excellent guides in the nath of view and virtue. Others regard them in the paths of piety and virtue. Others regard them as unworthy of the least attention, considering them the very worst of all instructors, and treating their precepts and decisions as perfectly inspid, and in many respects pernicious. The right we believe lies between these two extremes; and while the Roman Catholics exalt too highly the opinions of the P, yet by Protestants generally they are too much disregarded. Their writings contain many sublime sentiments, judicious thoughts. contain many sublime sentiments, judecoos trougaus, and things naturally adapted to form a religious temper, and to excite pious and virtuous affections: at the same time, it must be confessed that, on the other hand, they abound still more with precepts of an excessive and unreasonable austerity, with Stoical and Academical dictates, with vague and indeterminate notions, and what is still worse, with decisions absolutely false and what is still worse, with decisions absolutely false and in manifest opposition to the character and command of Christ. Of the character and doctrines of the primitive Church they are competent witnesses, and, living within a comparatively short period of the apostles, there are many things which they relate regarding apostolic times, which had come down to them by tradition, and which are therefore not to be altogether rejected. In many cases, therefore, they are to be deemed as competent witnesses of facts; but we must not confide in their decisions as indees. They had to rejected. In many cases, therefore, they are to be deemed as competent witnesses of facts; but we must not confide in their decisions as judges. They had to contend with numerous adversaries, and in the heat of controversy they not only fell into various mistakes, but made use of very unsatisfactory methods of reasoning, betraying imbecility of judgment, or inattention to the principles and rules of logic. Their works, instead of being distinguished by correctness and atrength of argument, furnish innumerable examples of feeble reasoning, of interpretations of Scripture irreconcilable with good sense, and of a careless admission of spurious writings as genuine authority.

Path'om, n. [A.8. fuddners; Icel. fadner. Compare of length equal to 2 yards or 6 feet, and founded on the distance between the finger-points when the arms and hands are extended horizontally. It is the unit of length in all matters of nautical surveying.

Fath'oms, v. a. To reach; to master; to comprehend; to penetrate; to get to the bottom, or extent of; to measure by a sounding-line.

Fath'omseless, a. Bottomless; incomprehensible; in capable of being sounded.—Not to be grasped with the arms; as, "a waist most fathomless." (Shakz.)

Fath'easl, a. [Fr. falidique; Lat. falidicus, from fatum, fate, and dicere, to tell.] Prophetic; able to announce future events.

Fatid'leasly, adv. In a prophetic manner.

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announce future events.

announce future events.

Patid'leally, adv. In a prophetic manner.

Fatif'ereens, a. [Lat. fatum, fate, and ferre, to bring.]

Deadly; destructive; mortal.

Patigue, (fat-vef.) n. [Lat. fatigatio, from fatigare, which is compounded of the obs. fatim, quasi, satis, enough, and agere, to drive.] Weariness with bodiy labor or mental exertion; lassitude.—The cause of weariness; labor; toil.

(Mil.) Extra duty; the labor of soldiers distinct from the use of arms; as, a fatigue-party or dress.

-v. a. To employ to weariness; to weary; to tire; to jade; to exhaust the strength by severe or long-continued mental or bodily exertion; to harass; to importune.

Patigue'some, a. Weary; tired; jaded; harassed.

Fatigue'some, a. Wearisome.

Fatigue'some, a. Wearisome.

Fatigue'some, a. Wesrisome.
Fatil'oquist, n. [Lat. fatum, fate, and loqui, to speak.]
One who tells fortunes.

Fat/imite, n. A descendant of Fatima, daughter of Mohammed.

Mohammed.

Fat'imites, n. pl. (Hist.) The name of an Arabian dynasty which was founded by Mohadi-Obaldallah, who flourished from 910 to 936 a. p., and asserted that he descended from Fatima, the daughter of the Prophet, and Ismael, a grandson of All. They reigned over Egypt and the N. of Africa till 1171.

"at'meas, s. The quality or state of being plump, full-fed, or corpulent.—Richness; fertility; fruitfulness; that which gives fertility.—Unctuousness; oili-

mat'sem, v. a. [A.S. fettian, to make fat.] To make fishy or plump with fat: to feed for slaughter.—To make fertile; to render fruitful; as, fields fattened with blood

\*\*Cattemers\*\*. He who, or that which, lattens; a name:

of becoming plump or corpulent.

\*\*P. donestic animals.\* The object of fattening is to
accumulate fieth and fat for sale. The means used by
all fatteners of domestic animals, whether quadrupeds or poultry, are: preventing the animals from taking exercise, and tempting them to eat by the variety and quality of their food. The best system is called boxquality of their food. quanty of their tood. The best system is called *lost-feeding*, by which a dry and warm lair is provided along with opportunity for a minimum of exercise.

Pat'iness, s. Greatiness; unctiousness; grossness.

Fat'tish, a. Inclined to corpulency.

'at'tish, a. Inclined to corpulency.
'at'ty, a. Greasy; oleaginous; unctuous; as, the fatty

(Anat.) The cellular membrane has been called fatty Adipose, from an opinion that in its arcolæ the fat deposited. The arcolar membrane, however, merely ges between its lamells and filaments, the

in which the lat is contained.

Futly vericles are small burse which enclose the fat.

Patty Acids, n. pl. (Chem.) When a fat or oil is saponified by an alkali, a peculiar change takes place, the stearinotein, and palmitin or margarin of which it is composed, and which are the stearate, oleate, and palmitate or margarate of glycerine respectively, leave the glycerine and unite with the alkali to form stearate, oleate, and palmitate or margarate of potash or soda, as the case may be. On decomposing either of these compounds with a strong mineral acid, the alkali unites with it, setting the fatty acid free. To try this, dissolve some tallow or oil in a solution of potash or soda, and precipitate the fatty acids by means of oil of vitriol. The P. A. fall into two groups, — the stearic series, and the oleic series. The principal members of the stearic series are the melissic and cerotic found in beeswax, the stearic in most animal fate; the pulmitic, in palm-oil; the lauric, in cocca-nut-oil; and the bulyric, in butter. Those of the olcic series are the crucic, found in mustard-seed and rape-seed; the olcic, in all non-drying oils; the physicleic, in sperm-oil, and some others. These acids are insoluble in water, but soluble in alcohol and in ether, and are less fusible than the original fats. They are also soluble in benzole and oil of turpentine, and when free from volatile products are insipid and odorless.

Fatu'itous, a. Weak in mind; foolish; stupid; im-

Fatu'ity, n. [Lat. fatuitas, from fatuus, foolish.] Fool-ishness or weakness of mind. In fatuous persons, the Faturity, a. [Lat. fatuitas, from fatuss, foolish.] Foolishness or weakness of mind. In fatuous persons, the mental powers they once possessed have been impaired or extinguished; while in the case of the imbecile or idiot, the mental powers have been deficient from birth. In F., the impoverishment of mind is sometimes so extreme, and the sufferer is so little influenced by consciousness as to lose a knowledge of his own existence; and so little by impressions through the external senses, and by the instincts of the sensory ganglia, as to be equally ignorant of the existence of others. Life is tegestative merely. This deprivation may be partial or complete. It may appear as a weakening of sensibility. This is not the tolerance of powerful or painful impressions, or indifference to such, springing from abstraction or eugrossment of the attention, but positive extinction of perception; or it may present the more common form of enfeoblement of intelligence, of memory, of the will, where the patient is apathetic, passive, plastic. It is frequently the disease of youth, of the period of puberty, contemporaneous with growth, with debilitating and exhaustive processes, and depending, in all probability, as in the other forms, upon insufficient untrition of the brain. At this age, the injury is reparable; and what may be designated juvenile dementia has the rure distinction of being curable. More frequently, it is the sequel of mania, melancholia, and severe affections of the nervous system. The deterioration here arises from actual changes in the rerous structure, which render healthy nutrition impos-The deterioration here arises from actual changes in the nervous structure, which render healthy nutrition impos-sible; so that, although mitigation, and sometimes to a marvellous extent, is within reach of treatment, recovery marvellous extent, is within reach of treatment, recovery is believed to be impracticable. Again, it is an affection of old age; and although senile dementia may seem but an exaggerated state of dotage, it is accompanied by such marked physical changes as to leave no doubt that it originates in circumstances differing widely from that gradual degeneration of the tissues which is evidenced by the "second childishness and mere oblivion." Lastly, this state may follow fever, when it is transitory, and generally of brief duration. Fatuity is one of the few morbid mental conditions recognized in our legal code, even by name, as relieving from the consequences of criminal acts, and as disqualifying for the administration and disposal of property.

[Lat. fatuus, from fari, to speak; allied]

FAUS

(Bot.) The gaping part or orifice of a memberalism

(Conch.) The opening into the first chamber of a shell.

Fan'eet, n. [Fr. fauset, or faucet, a spiget; from Lat. fauces, the throat.] The pipe inserted in a keg c tarrel, to give vent to its contents; a spigot, top. exiliar. Fan'fel, n. [Hind. fauful or fufal, the beteinent.] The fruit of a species of palm-tree.

Fanugh, (fau) interj. An expression of contempt x abburrance.

abhorrence.

"am'jastie, n. (Min.) A hydrous silicate of alumina, lime, and soda, found in octohedral crystals at Kasacrastuhl, Baden. Lustre vitreous; color white, brown externally. Hard. 5: p. gr. 1-923. Comp. Silica 455, alumina 17:4, lime 47, soda 5-2, water 27:2.

"amilhorn., (fold/horn.) a mountain of the Berness Alpa, in the Oberland, 30 m. from Berne, lying between the valley of the Grindelwald and the lake Breen, and extraining an aleration of 5:500. Scheroschemic.

the valley of the Grindelwald and the lake Brierz, and attaining an elevation of 5,500 ft. above sea-level. On its summit is a place of entertainment for visitors.

Familt, n. [Fr. faule; O. Fr. faulle, from failer; Lat. faller, to deceive; allied to fail.] Offence: sight crime; mistake, error, or blunder; something lial-le to censure or objection; any deviation from propriety.

Defect; want; absence; puzzle; difficulty: as, to be at fault;—said of a person who knows not how to proceed, or of a dog that has lost the scent in hunting.

(Geol.) A fracture of strata accompanied by displacement. See UPLIFT.

—e. a. To cause a displacement in;—said of veins or strata.

strate

ault'finder, n. One who objects; a detractor; a cen-

Fault'ful, a. Full of blemishes, defects, or errors.
Fault'ful, adv. Defectively; erroneously; improperly; wrongly; imperfectly.
Fault'iness, s. Badness; viciousness; evil disposition.—Deficiency; delinquency; actual offences; as, the faultiness of a person.

aul'timg, s. (Geol.) State or condition of being Fault'less, a. Not deficient; lacking in no respect;

perfect; completely excellent; free from blemish.

Fault'lessly, adv. In a manner free from defect or blemish.

Fault'leasmess, as. Freedom from blemishes or defects.
Fault'leasmess, n. Freedom from blemishes or defects.
Fault'leasmess, n. Freedom from blemishes or defects.
Fault'leasmess, n. Freedom from blemishes or defects.
Fault, (faun.) n. (Myth.) The name of a class of deities supposed to inhabit the groves and forests. The fauns are nearly identical with the panes of Greek mythology.
They are supposed to be the descendants of Fauna, one of the kings of Latium, who was worshipped as the god of fields and of shepherds. He is thus identified with the Greek Pan, and the Egyptian deity Meedes.
The festival of the Faunatia was celebrated by the country-people of Rome on the 5th of Dec., and referred to the protection Faunus exercised over the fields and cattle. Sacrifices were also burnt to blim during the ides of February. The poets describe the fauns as having horns, and bodies resembling those of goats below the waist, but gayer, and not so hideous in appearance as s, and bodies resembling those of goats below the but gayer, and not so hideous in appearance as the satyrs.

waist, but gayer, and not so hideous in appearance as the satyrs.

Fauma, (faum'a.) s. (Nat. Hist.) A term comprehending all the members of the animal kingdom living in a particular district or at a particular time. Thus the Mexican F. includes all the animals naturally living in Mexico. Those inhabiting the land form the terrestrat F, and the living species the recent F. The term bears the same relation to the animal kingdom that Flora does to the vegetable. Its derivation is from the mythological fanns, regarded as the patrons of wild animals. In the fauna of any country are included only those animals which are indigenous to it, and not those which have been introduced.

Fau'mich, (Loch.) a lake of Scotland, in Rosshire, having a length of 12 m., by a breadth of 1 m.

Fau'mist, n. A naturalist.

Fau'mist, n. A naturalist.

Fau'must, n.; pl. Fauni. See Faun.

Fau'mist, n. This in Virginia, a N.E. co.; area, about 680 sq. m. Rivers. Rappahannock and North rivers, and Goose Creek. Surfac, hilly, the Blue Ridge extending along its N.W. border; soil, very fertile. Min. Gold. magnesia, and souspetone. (Ap. Warrenton. Ppp. 22,500.)

Fauquier (White Sulphur) Springs, in Virginia, a post-village of Fauquier co., on the Mappahannock river, about 57 m. W. S. W. of Washington.

Faus'sem. n. [W. Uymen.] A species of great eel.

Fau'sen, n. [W. lyssen] A species of great eel.
Fau'serite, n. (Kin.) A sulphate of manganese and
magnesia, found in orthorhombic crystals, at Herrengrund, Hungary. Lustre, vitreous; color, reddish and

Digitized by GOGI

yellowish-white to colorless; translucent to transparent. Hard. 2-2½. Sp. gr. 1-888. Comp. Sulph. acid 34-7, protox. manganese 20-5, magnesia 5-8, water 39. Fransse-bray e. (fuse-brdi.) n. [Fr.; Ital. fossa-brsa.] (Mil.) A low rampart and parapet which was sometimes raised in the ditch surrounding the defensive works of the 15th, 16th, and 17th centuries. It seems to have been an addition to the main rampart that was more beneficial to the attacking party than to the defenders, as no effectual fire could be directed from thence until the enew appeared on the creet of the glacis, and it as no effectual free could be directed from the enemy appeared on the creet of the glacis, and it would afford considerable assistance to an attacking force in scaling the walls of a fortress after effecting a lodgment in the ditch. It is mostly discarded by modern engineers, but sometimes used in front of curtains,

the supposition that he effected the printing of his books by magic: but this story appears to be a mere fiction. It is believed that he p. of the plague in 1466.

Fames, or Famestus, Dr. Johann, the famous magician, allout whose name and existence so many obscure legends have grown, lived in the beginning of the 16th cent., and was probably born at Knittlingen, in Suabla. After receiving his education at Wittenberg, he went to Ingolstadt, where he studied medicine, astrology, and magic, and occupied himself in alchemical experiments. Famet was a man of great scientific acquirements; magic, and occupied himself in alchemical experiments. Faust was a man of great scientific acquirements; and, according to legendary tradition, he made use of his powers to inspire his countrymen with a firm belief that he had dealings with the devil. The story of Dr. Faustus furnished the subject of a remarkable dramatic poem by Christopher Marlowe, and has been immortalized by the genius of Gosthe. Goundo's well-known opera is also founded on this character.

Fausta, Flavia Maxima, (faur'ta,) the second wife of Constantine the Great. By her accusations the emperor put his son Crispus, by a former wife, to death; but her infidelity becoming notorious, she was suffocated in a bath, 327.

in a bath, 327.

Pams'tima, the name of two Roman ladies, mother and daughter, both remarkable for their profligacy. The elder was married to Antonius Plus, and D. in the 3d year of his reign, 141; the younger was the wife of Manual Angelium.

year of his reign, 141; the younger was the who of Marcus Aurelius.

Panteenii, (fo'ttl,) n. [Fr.] An arm-chair; the seat of the chairman or presiding officer of an assembly.—Membership in the French Academy.

Pank, (fasoks,) GUY. See Fawkes, (GUY.)

Pank, n.; pl. Fauces, [Lat.] The pharynx. See FAUCES.

(Bot.) The orifice of the tube of the corolla, the tube being formed by the confluence of the petals.

(Omch.) That portion of the cavity of the first chamber of a shell which may be seen by looking in at the aperture.

Faux-pas, (fo-pa(r,) n. [Fr.] A false step; a mistake. Fave-late, a. [Lat. faves, a honey-comb.] (Bot.) Honey-combed; cellular.

Honey-combed; cellular.

Honey-combed; cellular.

Fav'ersham, (formerly FEVERSHAM,) a seaport-town of England, co. Kent, 45 m. 8.E. of London. Manuf. Gunpowder. Pp. 6,443.

Fav'gmanns, (fa-reen-ya'na.) an island lying in the Mediterranean, off the coast of Sicily, 12 m. from Trapani. It is 6 m. long, by 2 broad. Pp. 4,000.

Fa'ver, Fa'veur, n. [Lat. favor, a new word in the age of Cicero, from faveo, to be well-disposed or inclined toward, probably from Gr. phaō, to shine; Sansk. bōa, to shine; Fr. faveur.] Propitious aspect; good-will; countenance; kindness; grace; friendly disposition; as, he enjoyed the royal favor.

—A disposition to aid, befriend, support, promote, or justify; act of countenancing or looking propitiously upon.

"The fereur of learning was the humour and mode of the age." Timple.

Any act of grace or good-will; a kind act or office; a boon granted; benevolence expressed by word or deed;

as, may I ask a favor of you?

-Lenity; mildness; mitigation of punishment; a yielding or concession; pardon.

" I could not disc ever the lealty and favour of this senten-

The recipient or object of good-will or regard; the person or thing favored; as, "Man (God's) chief delight and favors." — Millon.

Something bestowed as an evidence of good-will; a token of love; anything emblematic of preference or regard, as a knot of ribbons given by a lady; something worn as a gage of devotion or badge of affection; as, wedding favors.

Prejudice; partiality; bias.

An epistolary communication; a letter; a billet; — used in a complimentary sense; as, "your esteemed favor is

worn as a gage of devotion or badge of affection; as, washing favors.

"Here, Freelles, wear thou this favour for me, and stick it in thy sap."—Backs.

An epistolary communication; a letter; a billet; — used in a complimentary sense; as, "your esteemed favor is dayor is favor of, favorable to; inclined in another's behalf; Fawm'ing, n. The act of meanly, or servilely flattering, or cringing to any one.

In favor of, favorable to; inclined in another's behalf; Fawm'ing, p. a. Flattering by cringing and meanness.

Brawm'ing, n. The act of meanly, or servilely flattering, or cringing to any one.

Brawm'ing, p. a. Flattering by cringing and meanness.

Brawm'ing, n. The act of meanly, or servilely flattering, or cringing for ha fawor.

Brawm'ing, n. The act of meanly, or servilely flattering, or cringing for ha fawor.

Brawm'er, n. One who cringes meanly, or flatters basely: a sycophant; a toady.

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Fawm'er, n. One who cringes meanly or flatters basely: a sycophant; a toady.

Favorable, a. [Fr., from Lat. favorabilis.] Showing good-will; kind; gracious; auspicious; propitious.

Palliative: tender; averse to censure.

Conducive to; convenient; advantageous; anitable; fit; adapted; beneficial.

Favorablemess, s. Kindness; benignity; partiality;

suitablene

suitableness.

\*\*Fa'vorably.\* adv. Kindly; with favor; with tenderness; with kind regard.

\*\*Fa'vored.\* p. a. Treated with good will or favor; kindly regarded: having a certain look of features; as, well, or ill-favored.

Fa'vorer, n. One who regards with favor, or friend-ship; a well-wisher. Fa'voress, n. A female who regards with favor or friendship.

friendship

Fa'voringly, adv. In a friendly or favoring manner.
Fa'vorite, n. [Fr. favori; It. favorita, from Lat. favor.] A person or thing regarded with peculiar preference or affection; one greatly beloved; a darling; a minion.—One undeservedly and unduly intrusted with

favors by a person of authority.

a. Regarded with special kindness, favor, esteem, or

minion. — One undeservedly and unduly intrusted with favors by a person of authority.

—a. Regarded with special kindness, favor, esteem, or preference: as, a favorite author.

\*\*Fa'ver'tism, n. [Fr. favoritisme.] Disposition to favor one or more persons or classes, to the neglect of others having equal claims; exercise of power by favorites.

\*Fa'ver'tess, a. Having no patronage; not favored; deficient in countenance.

\*Favose', a. [Lat. favosus, from favus, a honey-comb.] (Bot.) Same as Favolatz, q. v.

\*Favete, n. [Fr. favorite, from favose. See Supra.] (Pul.) A kind of cellular fossil coral.

\*Favre, (fdv'r.) Gabriel Claude Jules, a French advocate, author, and orator, b. at Lyons, 1809, was prosecuting his studies for the bar at the outbreak of the revolution of July, 1830, in which he took an active part. He soon afterwards commenced practice, whilst the independence of his character, the bitter irony of his address, and the radicalism of his political opinions, made him a reputation, and he has remained the consistent champion of French republicanism, in the press, in the different national assemblies, and at the bar. After the revolution of Feb., 1848, F. became Secretary-general of the Ministry of the Interior, and was the author of the circular to the Commissioners of the Provisional Government, as well as of the "Bulletine" of the same year. He acted for some time as Under Secretary for Foreign Affairs, and opposed the expedition to Rome of Dec., 1848. F. became the strenuous opponent of Louis Napoleon after the latter's election to the Presidency, and the leader of the party of the Montagne on the flight of Ledru Rollin. F. ''s defence of Oraini in 1858 created a great sensation by its boldness and eloquence. In the same year he became a member of the legislative body; since which time he has distinguished himself by his speeches in favor of complete liberty of the press, against the law of "Deportation," the war with Austria of 1859, and, in 1864, by an attack on the policy of the imperial govt. in

ators in the "Gunpowder Plot," was B. in Yorkshire, England, and enlisted in the Spanish army in the Nether-lands. There he was found by Winter, one of the Ro-man Catholic conspirators, and with him returned to England, in 1604, after agreeing to assist in the plot. He passed under the name of Johnson, as servant to Thomas Percy, another conspirator, and was placed to lodge in the house next to the Parliament House. After collecting the necessary computations. E worked him collecting the necessary combustibles, P. worked his way into the coal-cellar under the House of Lords, and collecting the necessary comoustoles, F. worked in way into the coal-cellar under the House of Lords, and after storing it with gunpowder, &c., was appointed to the dangerous duty of firing the mine. The govt, having had timely information of the detestable plot, the House of Lords and its cellar was searched, and F. found secreted amidst some casks of gunpowder, Nov. 5, 1605. He was at once arrested, soon after tried, and, Jan. 31, 1606, suffered death at Westminster with several of the other conspirators.

Fawm., n. [Fr. from, probably from Lat. hoedus, a young goat; in the Sabine tongue, fedus.] The young of various animals; as of a lion, bear, wolf, deer, &c.

—A color resembling that of a fawn.

—v. a. [Fr. funner, to bring forth a fawn.] To bring forth a fawn, or young.

Fawm., r. n. [A. S. fegmian, fegmian, to be glad in; to be delighted with.] To court favor or show attachment to by frisking about one, as a dog; to cringe and bow to gain favor; to wheedle.

—n. A smile, cringe, or bow; mean flattery.

Fawm., or Fawk Ghove, in Proceedings a postatory.

ment. — With or by one's or your favor, with leave; by countenance or permission.

"Bat, with your favor i will treat it here." — Drydon.
"Sivorable, a. [Fr., from Lat. favorabilis.] Showing good-will; kind; gracious; auspicious; propitious.
-Palliative; tender; averae to censure.

Conducive to; convenient; advantageous; suitable; fit;

the Minnesota River, about 8 miles N.E. of Henderson.

Fay, m. [Fr. fer, a fairy.] An elf: a sprite; a fairy.
Fay, Theodore Skrowick, an American author and diplomatist, B. at New York, 1807, was called to the bar in 1828, but did not follow the profession. He was at first a contributor to, and then editor of, the New York Mirror, some of his articles to which were published in a collected form in 1832, under the title of Dreams and Reveries of a Quiet Man. In 1833 he proceeded to Europe, where he remained for three years, and published his Minute Book, a Journal of travel, and his first novel, Norman Leslie. In 1837 he was appointed U. S. Secretary of Legation at Berlin, whence he was transferred in the capacity of resident Minister to Berne, in Switzerland, a post he held till 1860. In 1840 he published the Countess Ma; in 1843, Hoboken, a Romance of New York; both novels written against the practice of duelling; and in 1851, Ulric, or the Voices, a poem in 20 cantos. F., who is the author of other works, has published a History of Switzerland.

Fay all one of the Azores Islands. See Azores, (THE)

Fay all te, n. (Min.) A silicate of the protoxide of

Fay'al, one of the Azores Islands. See Azores, (The.)
Fay'alite, n. (Min.) A silicate of the protoxide of iron, of a black or greenish-black color. metalloid lustre, opaque, and attractible by the magnet; pp. gr. 4-414. Found in Mourne Mis., Ireland, and at Fayal, Azores. It also occurs as a product of the puddling furnace. Comp. Silica 29-5, protoxide of iron 70-5. Some varieties contain also lime, manganese, magnesia, and alumina, in small quantities.
Faye, Herve Augusts Etienne Aleano, an emipent French astronomer, B. 1814, was educated at the École Polytechnique, and afterwards became a pupil at the Observatoire. In 1852 he discovered a new comet, to which his name was assigned, and received the "La-

Observatoire. In 1852 he discovered a new comet, to which his name was assigned, and received the "Lalande" prize from the Academy of Sciences. In 1862 F. was appointed a member of the Bureau of Longitudes, and in 1864, a member of the Imperial Council of Public Instruction. M. Faye was Professor of Geodesy at the Ecole Polytechnique from 1849 to 1854. He is the author of several works on astronomy.

\*Savette\*. See Lapaterra\*.

thor of several works on astronomy.

Fayette'. Sec LATATETE.

Fayette', in Alabama, a W. N. W. co., bordering on the Mississippi; area, about 700 sq. m. Bivers. Sijsey (or New) river, and Cold Fire, Yellow, and Luxapatulla creeks. Surface, uneven; soil, fertile. Cup. Fayette. Pop. (1894) 12,823.

A pure-village, can of the above co., about 150 m. N. W.

Pop. (189.) 12,823.

A post-village, cap. of the above co., about 150 m. N. W. of Montgomery. Pop. (1897) about 1,000.

Fayette, in Arkassas, a township of Calhoun co.

Fayette, in Georgia, a N. W. central co.; area, about 162 sq. m. Ricers. Film river, and Whitewater, Line, and Rose creeks. Surface, generally level; soil, not very fertile. Miss. Irou and granite. Cap. Fayetteville.

Fayette, in Arkassas, a township of Calhoun co.
Fayette, in Georgia, a N. W. central co.; area, about 102 sq. m. Rivers. Filint river, and Whitewater, Line, and Rose creeks. Surface, generally level; soil, not very fertile. Hiss. Irou and granite. Cap. Fayetteville. Pop. (1890) 8,728.
Fayette, in Illisois, a S. central co.; area, about 720 sq. m. Rivers. Kaskaskia river. Surface, level; soil, fertile. Cap. Vandalia. Pop. (1890) 23,367.

— A post-village of Greene co., about 30 m. N. of Alton. Fayette, in Indiana, an E. S. E. co.; area, about 210 sq. m. Rivers. W. Fork of Whitewater river. Surface, level. Cap. Connersville. Pop. (1890) 12,630.

— A lownship of Vigo co.
Fayette, in Iosea, a N. E. co.; area, about 720 sq. m. Rivers. Turkey river. Surface, undulating; soil, fertile. Cap. West Union. Pop. (1890) 23,141.

— A township of Linn county.
Fayette, in Keniscky, a N. E. central co.; area, about 202 sq. m. Rivers. Kentucky river, and Hickman's creek. Surface, diversified; soil, fertile. Cap. Lexington. Pop. (1890) 35,698.
Fayette, in Misse, a post-township of Kennebec co. Fayette, in Misse, a post-township of Hillsdale co. 1 Fayette, in Missouri, a city, the cap. of Howard co., on Bonne Femme creek and the M., K. & T. B. R., 13 m. N. of Boonville. Seat of Central College (Methodist) and Howard Female College. Pop. (1897) abt. 2,550.

Fayette, in Missouri, a city, the cap. of Howard co., on Bonne Femme creek and the M., K. & T. B. R., 13 m. N. of Boonville. Seat of Central College (Methodist) and Howard Female College. Pop. (1897) abt. 2,550.

Fayette, in Ohio, a S. W. central co.; area, about 416 sq. m. Rivers. Paint and Deer creeks. Surface, generally level; soil, fertile. Cup. Washington C. H. Pop. 22,309.

— A village of Chenango co., abt. 106 m. W. S. W. of Olvid. Fayette, in Premsylvania, a S. W. co., bordering on W. Virginia; area, about 30 sq. m. Rivers. Monongahela and Youghiogheny rivers, and Redstone, Dunlap's, Indian, and Jacob's creeks. Surface, diversified; in some parts mountainous; soil, very

FEAR

ship about 850.

Fayette, in West Virginia, a S. central co.; area, about 750 sq. m. Rieers. Kanawha (or New), Gauley and Meadow rivers. Surface, mountainous. Marshall's Pillar, a remarkable cliff, some miles from Fayetteville, rises 1,000 feet above Kanawha river, on which it is located. Soil, fertile. Mim, iron ore. Pop. (1897) about 21,500. Cup. Fayetteville.

Fayette' City, in Pennsylvania, a post-borough of Fayette Cot'mers, in Tennessee, a post-village of Fayette Cot'mers, in Tennessee, a post-village of Fayette Cot'mers, in Tennessee, a post-village of Fayette Cot'mers, in Tennessee, and See Fayette Cot'mers, and See Fayette Cot'mers, in Tennessee, and See Fayette Cot'mers, and See Fayette Cot'mers, and See Fayette Cot'mers, and See Fayette Cot'mers, and See Fayette.

Fayette Ridge, in Maine, a former post-office of

Fayette Springs, in Pennsylvania, a post-office of

Fayette co.

Fay'etteville (now called FAYETTE), in Alabama, a post-village, cap of Fayette co., about 160 m. N.W. of Montgomery. Pop. (1897) about 1,000.

Fay'etteville, in Alabama, a post-village of Talladama.

dega co.

Pay'etteville, in Arkanaa, a city, the cap. of Washington co., 60 m. N. of Ft. Smith; a trade and educational center. Pop. (1897) about 3,400.

Fay'etteville, in Georgia, a post-town, cap. of Fayette co., about 20 m. 8. of Atlanta.

Fay'etteville, in Illinois, a post-village of St. Clair co., on the Kaskuskia River, abt. 14 m. 8.E. of Belleville, Fayetteville, in Indiana, a village of Fayette co.

—A post-village of Lawrence co.

Fayetteville, in Missouri, a post-village of Johnson co. about 20 m. 8. by E. of Lexington.

Fayetteville, in N. Curolina, a post-town, capital of Cumberland co., on Cape Foar River, about 60 m. 8. of Rielejah.

Ruleigh.

Fayetteville, in Now Fork, a post-village of Manilus township, Onondaga co., abt. 120 m. W. by N. of Albany.

Fayetteville, in Ohio, a post-village of Brown co.

Fayetteville, in Pennsylrenia, a post-village of Franklin co., about 145 m. W. of Philadelphia.

Fayetteville, in Tennsee, a post-town, cap. of Lincoln co., on Elk river, about 75 m. S. by E. of Nashville.

Fayetteville, in Texas, a post-town of Fayette co.

Fayetteville, in Texas, a village of Windham co., co., about 100 m. S. of Montpelier.

Fayetteville, in West Virginsia, a post-village, cap. of Fayette co., about 35 m. S. E. of Charleston.

Fay'mounth, in Michigan, former name of a township of Saginaw co.

Fay'mou..... of Saginaw co. of Saginaw co.

Fayoum, or Faloum, (fa-yoom') a famous valley and prov. of Central Egypt, anciently the name of Arsinoi, and stretching out into the desert, which almost entirely surrounds it. In extent, its length may be taken at 40 m. by a width of 30. Proc. Generally fertile, producing dhurra, rye, barley, flax, cotton, and sugar. Near the cap, large quantities of roses are cultivated, and are converted into rose-water which is highly esteemed. The land capable of cultivation in F. has been estimated at 450 sq. m., of which scarcely the half is at present tilled. Manuf. Woollen, linen, and cotton goods. The communication with F. is carried on by caravans, which set out weekly from the village of Tamich. Cup. Faioum. Ibp. unascertained, but considerable, and chiefly Arabs. Faroum. I'bp. unascertained, but considerable, and chiefly Arabs.

Fays'ton, in Vermont, a township of Washington coun

Fays'ville, in Michigan, a village of Genesee co., abt.

Fays'ville, in Michigan, a village of Genesee co., abt. 9 m. N. of Flint.
Fny'ville, in Massachusetts, a P. O. of Worcester co.
Fazzolet, (fa'tsv-let.) n. [It. fascoletto.] A handkerchief.
F. D. [Abbreviation of Lat. Fidet Defensor, Defender of the Faith.] A title first conferred upon Henry VIII. of England by the Pope, and subsequently retained by his successors on the throne.
Feale, (f2d.) a river of Ireland, in Munster, which, rising in the mountains dividing the cos. Cork and Linnerick, fails, by a title setuary called the Cashin, into the Shannon, 11 m. above Kerry Hoad.
Feal'sy, a. [Fr. fault'; O. Fr. faultief, from Lat. fidelitas—fides, faith.] (Fudal Law.) The oath of fidelity taken by every tenant, on admission, to be true to his superior lord. General F. was that due from the subject to the prince; special F., from tenant to meane lord, F. is said to differ from homage in being due to every new lord.

new lord.

Pear, n. [A. S. fer, fear; aferan, to frighten; Ger. grfahr, danger; akin to Lat. vereri, to be afraid.] Apprehension of approaching evil, danger, or death; solicitude; dread; terror.—The source, cause, or occasion of danger; apprehension or alarm.—Apprehension of incurring the anger of God; feeling of awe and reverence toward the Supreme leing; due regard to the law and word of God; as, the fear of God is the beginning of wisdom.—Iron. ix. 10.

(Med.) This operation upon the mind is often, if uncorrected, attended with the most serious consequences where sickness is present or disease expected. On many

corrected, attended with the most serious consequences where sickness is present or disease expected. On many persons the influence of fear is far more serious in its effect than the worst form of the dreaded malady. In all epidemic diseases, particularly plague and cholera, the terror inspired by either scourge has been quite as fatal as the infection, — paralyzing the system, and robbing the body of the natural elasticity of its nervous stamina, and the mind of the buoyancy of hope, mak-

ing voluntary victims of those who, from age and strength, had the best probability of escaping. There are few medical men who have not had cases of small-pox, where the patient, by his own alarm, has produced the disease, and where no direct contagion to excite it the disease, and where no direct contagion to excite it was possible. Fear is a mental poison, and the most potent of all antagonists to health and medicine; and as faith has cured more diseases than physicians ever prescribed for, so fear is more destructive than the worst form of contagion.

Fear, v. a. To dread; to consider with apprehension or terror; as, "I fair not death."— Dryuen.

—To affright; to terrify; to make afraid.

—To be anxious or solicitous for.

-To be anxious or solicitous for.

-o. n To live in horror; to be afraid; to feel an apprehension, as of some impending evil; to expect with
emotions of slarm or solicitude.

\*Pear\*er, n. One who fears or dreads.

\*Pear\*ful, a. Timorous; timid; easily made afraid; as,

\*he's gentle and not \*farful.\* \*Shaks.

-Awful; to be dreaded; terrible; frightful; impressing

fear.

ludicative of fear; caused by fear.

ear'fully, adv. In a fearful manner; frightfully; timorously. Fear'fulness, n. State or quality of being timorous or afraid; timidity; terror; dread; awe; apprehension

Fear'ing, in Ohio, a post-township of Washington

Fear'less, a. Bold; intrepid; without dread; as, fear

Pearless, d. Bold; intrepla; without dread; as, year-less of danger.

Fearlessly, adv. Without dread; intrepldly.

Fearlessness, s. Freedom from fear; boldness; courage; intrepldity.

Fearlessness, s. A dreadnaught; a thick, heavy woollen stuff.

woollen stuff.
Fearm's Springs, in Mississippi, a post-village of Winston co., abt. 105 m. N.E. of Jackson.
Feasibil'ity, n. [see Franker.] Capability of execution; practicability; a thing practicable.
Fea'sible, a. [Fr. faisable, from faire, to make; Lat. facere, to do.] Practicable; that may be effected; capable of being done or accomplished; as, a feasible undertaking.
Fea'sible, n. Whatever is practicable; as, the feasible differs from the possible.
Fea'siblemess, n. Practicability; capability of being executed.

Fea. ibly, adv. Practicably.
Fea. i, N. Fr. feste; Fr. fête; Lat. festus; Sc. dies, a holiday.] A festival; a holiday; a joyous anniversary; a solemnity.— An entertainment at table; a sumptuous med given to a number of persons; a rich repast;

meal given to a number of persons; a rich repast; a banquet.
(Eccl.) Almost every religion, true or false, has had its solemn feast-days. The ancient Greeks and Romans had them, as well as the Jews and nodern Christians. God appointed several festivals among the ancient Jews, the first and most ancient of which was the Sabbath, or seventh day of the week, commemorative of the creation. The Passover was instituted in memory of their deliverance out of Egypt, and of the favor of God in sparing their first-born, when those of the Egyptians were slain. The feast of Pentecost was celebrated on the 50th day after the Passover, in memory of the law deliverance out of Egypt, and of the favor of God in sparing their first-born, when those of the Egyptians were siain. The feast of Pentecest was celebrated on the 50th day after the Passover, in memory of the law being given to Moses on Mount Sinai. The feast of Tents, or Tabernacles, was instituted in memory of their fathers having dwelt in tents for forty years in the wilderness, and all Israel were obliged to attend the temple and dwell eight days under tents. These were their principal feasts; but they had numerous others; as the feast of Trumpets, the feast of Expistion or Atonement, the feast of the Dedication of the Temple, the Moons, &c. In the Christian Church, no festival appears clearly to have been instituted by Jesus Christ or his apostles, yet Christians have always celebrated the memory of his resurrection, and numerous others were introduced at an early period. At first, they were only appointed to commemorate the more prominent events in the life and death of our Redeemer, and the labors and virtues of the apostles and evangelists; but martyrs came soon after to be introduced, and by the 4th century their number had increased to a very extravagant extent. And not only so, but instead of being spent in devotional exercises, they were employed in the indulgence of sinful passions, and in criminal pursuits; indeed, many of the festivals were instituted on a pagan model, and perverted to similar purposes. Feats are either movable or immovable. Immovable feasts are such as are celebrated constantly on the same day of the year, the principal of which being Christmanday, Circumcision. Espiphany, Candlemas or Purification, Lady-day or the Annucriation, All-Saints, All-Souls; besides the days of the seaveral apoetles, as St. Thomas, St. Paul. Movable feasts are such as are not confined to the same day of the year. Of these, the principal is Raster, which gives law to all the rest, all of them following and keeping their proper distances from it; as Palin-Sunday, Good Friday, Ask-Wednesday, Sexagesima, ascension-day, Pentecost, and Trinity Sunday. Besides these, which are general, there are others which are local or occasional, enjoined by the magistrate, or voluntarily set on foot by the people, such as, in this country, the Annitersary of American Independence celebrated annually on the 4th of July, and Thanksgivingday, also held every year on a day set apart by the President for the occasion.

-v. a. To entertain sumptuously, or magnificently; as, "to feast with great show of favor."

e. s. To eat sumptuously; to eat together on a day of joy; To dine or sup on rich or rare provisions.

"Our church wardens /esst on the silver, and give us the farthings." — Geg.

Feast'elay, n. A holiday; a day of festivity.
Feast'er, n. One who fares sumptuously; one who gives splendid banquets.
Feast'erville, in Pennsyleania, a. P. O. of Bucks co.
Feast'ful, a. Festive; joyful; as, "his feastful friend."

Luxurious; riotous.

"The sultor train
His herbs and flocks in feastful rites devour."—Pope.

Feast'fully, adv. Feattively; joyfully; luxuriantly.
Feast'rite, s. Custom observed at entertainments.
Feast'swom, a. Procured by giving a banquet; bribed by an entertainment.
Feast e fer fait. O Performed to the feature of the feature.

by an entertainment.

Feast, n. [Fr. fait; 0. Fr. faict; Lat. factum, a deed, from facere, to make.] An act; deed of prowess or strength; an exploit; an achievement by strength, akill, or cunning; sa, a feat of arms.

Fea'ther, n. [A. S. fedher; Ger. feder; Icel. feedur; allied to Lat. penna, equiv. to petua, and Gr. petron, from petethiat.] A plume of a bird.—The general name of the covering of birds.—Kind; nature; species; as, "birds of a feather," 1. e., of the same kind or species.—An ornament; a vain or empty title.—A sort of natural frizzling of the hair on the neck or forehead of a horse, rising above the surrounding hair, and resembling the tip of an ear of corn.—A small piece of iron used in splitting stone.

bling the up of an ear of corn.—A small piece of iron used in splitting stone.

(Physiol. and Com.) Feathers are a peculiar modification of the tegumentary system forming the external covering or plumage of birds. Though chemically similar to, and homogeneous with, the hair of mammala, their anatomical structure is in some respects different. their anatomical structure is in some respects different. They consist of the quill, the shaft, and the vance, (Fig. 996.) The quill, a, is a hollow, semi-transparent, borny cylinder, by which the feather is attached to the skin, and terminates below in an obtuse extremity, presenting an orifice, c, termed the lower umbilicus. A second orifice, leading into the interior of the quill, and termed the second umbilicus, f, is situated at the opposite end, where the two vanes meet and unite. It combines strength with lightness in a very extraordinary manner. The cavity of the quill contains a series of conical capsules united together by a central pedicle, forming the membranous remains of the original formation-pulp. The shaft, b b, is qualification.

The shaft, b b, is quadrillow, with a smooth cor, ex surface; it contains a white, dry, and very light with. The ranes, cc, are subdivided duto two parts,—the 5.00 and 3.00 are over the shall are over The sides of the shan are covered with the bark, and each barb forms of itself a small shaft, which is covered in a similar manner with little barls on each edge. These barbules are so firmly bound to each other, that, although in reality separate, they seem to adhere. The feathers of birds are changed at periodical intervals. This is called "moulting." Feathers vary in their ing." Feathers vary in their size, form, and function, and in most cases are accompanied in most cases are accompanied by an accessory plume, which is usually in the form of a small downy tuft. In high northern latitudes, the inhab-itants wear the skins of some birds, with the feathers on, as clothing. In Greenland, clothes made with the skins of elder-ducks are worn with the feath-ers inside. The ancient Mexi-

Fig. 996. — FEATHER.

cans made pictures with the colored plumes of hum-ming-birds, after the manner of mosaic. Feathers form cans made pictures with the colored plumes of humming-birds, after the manner of mosale. Feathers form a considerable article of commerce. The feathers of the ostrich have been held in high estimation from the times of antiquity, and have been used as ornaments of the dans and head-dresses of ladies, the helmets of warriors, and for gay processions. The finest feathers used for beds are those of the elder-duck, which is chiefly obtained in Greenland, Iceland, and Norway. Very fine feathers, especially for quilla, are obtained from Hudson's Bay.—Down, or the first covering of young birds, is also an article of commerce. The down of the swan is brought from Dantzic.

young birds, is also an article of commerce. The down of the swan is brought from Dantzic.

A feather in one's cap, an honor or credit; a mark of distinction. — To show the white feather, to display cowardice. — To be in high feather, to be in exuberant spirits. — To cut a feather, (Naul.) to cause a wake to fee be

spirits. — To cut a feather, (Naul.) to cause a wake behind a vessel in motion; to cause the water to foam by the quick, vibratory action of oars.

-s. a. To dress, fit, or deck with feathers; to cover with foliage in a feathery manner; to furnish with a feather or feathers; as, to feather an arrow, to feather a bonnet — To trend, as a cock.

"He feather'd her a hundred tin To enrich; to deck; to embellish; to adorn; as, he is feathered like a peacock.

To feather one's nest, to provide for one's self, by ab-

stracting a portion of money, property, &c., belonging to another when passing through one's hands, and self-appropriating the same; to accumulate wealth, whether by fair or unfair means; — this expression takes rise from the practice of birds in collecting here and there

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FEBR

Peath'er-alum, n. (Min.) A variety of alum. Same as Halotruchite, q. v.

Peath'er-bed, n. A bed stuffed with feathers; a soft

Feath'er-boarding, n. That kind of weather-boarding in which the edge of one board overlaps that

**eath'er-driver**, s. One who beats or prepares feathers for use by freeing them of extraneous matter and

airing them. airing them.

Fenth'ered, p. a. Covered with feathers; enriched,
fitted, or furnished with feathers, as an arrow; winged.

Furnished with anything similar to feathers; as, land
is said to be feathered with trees.

Fenth'er-edge, n. Boards or planks having one edge
thinner than the other, are called feather-edge stuff.

Fenth'er-edged, a. Having one edge thinner than
another.

Feath'er-few, n. An inaccurate spelling of FEVER

Feath'er-few, n. An inaccurate spelling of FEVER-FEATH'er-grass, n. (Bot.) See STIPA.

Feath'er-ing, n. (Arch.) See FOIL.
(Nast.) In rowing, the act of turning the blade of the ear, while emerging from the water preparatory to being thrown forward for another dip, from a verticate to a horizontal position. The oar thus turned offers less resistance to the wind or to the water, should waves strike it and has a more elegant appearance.

to a horizontal position. The oar must unusual onest less resistance to the wind or to the water, should wares strike it, and has a more elegant appearance.

Feath'erless, a. Unfledged; destitute of feathers.

Feath'erley, or Feathery, a. Having the appearance of feathers; plumose.

Feath'er Ore, n. (Min.) A sulphuret of antimony and lead, in capillary or cobweb crystallizations; a variety of Jamssonitz, q. v.

Feath'er Elver, in California, rises in the E. part of Plumas cs., and flowing generally B.W., enters the Sacramento River, abt. 30 m. above Sacramento City.

Feath'er Elver, in Idaho, enters the S. Fork of the Boist river in Elmore co.

Feath'er-veimed, a. (Bot.) Same as PENNINERVED, q.v.

Feath'er-weight, n. A very light weight, so exact that a feather might turn the scale; the smallest weight that can be put on the back of a horse in a race or other match; the lightest champions among pugilists.

Feat'ly, adv. Neatly; deftly; skilfully; adroltly; desterously.

match; the lightest champions among pugniss.

Fently, adv. Neatly; deftly; skilfully; adroitly;
dexterously.

Fentlmens, n. Neatness: nimbleness; adroitness.

Fentlmens, n. [N. Fr. failure; O. Fr. futture, from
faire; Lat. fadura, from facere, to make.] The cast
or make of the face, or of any single lineament; general appearance of the person; used in the plural for
the antire face.

" It is for hor

The form of any part of the surface of a thing. — The cast or structure, as of a landscape; an essay. — Any prominent point; as, a feature of the law. — Any marked

peculiarity.

Fea'tured, a. Having good lineaments; resembling

n'tureless, a. Not having features, or presenting indistinct ones.

indistinct ones.

Feen's urely, adv. Prominently; showing striking peculiarities.

Fenne, (fill, v. a. [Ger. fasen, to separate, from fase, a sbre or tiread.] To untwist the end of a rope.

—a. State of fretfulness; worry or anxiety; excitement.

Febrie'wille, a. [Lat. dim. of febris, a fever.] (Med.)

A slight fever.

Febrifa'ctent, a. [Lat. febris, a fever, and facers, to produce.] Tending to produce fever; febrific.

—a. [See Suraa.] That which tends to produce, or cause fever.

Sever. The probabilities of the producting fever; febrifacient. Technif mgml, a. [Lat. febrifagalis, from febris, a fever, and fagure, to put to flight.] Tending to mitigate or

cure fever.

Pelv'rifuge, n. [See above.] (Mcd.) A medicine tending to cure, or alleviate fever. As fevers are cured by several classes of medicines, the list of P. would be very numerous, embracing articles from the mineral, vegetable, and animal kingdoms, and comprehending tonics, stimulants, emetics, diaphoretics, purgatives, and diuretics. The term, however, should properly be confined to such substances as exercise a direct and specific action on the chain of morbid actions which constitute the disease, as chechons, quinine, and arsenic.

Pelv'rifuge, a. Anti-febrile; having the quality of curing fever.

curing fever.

Peb'rile, a. [L. Lat. febrilis: Fr. fébrile, from Lat. febris, a fever.] Pertaining to, or indicating, fever; derived from fever; as, febrile action of the pulse.

Peb'ramary, n. [Lat. Februarius, from februare, to purify.] The second month of our year, and containing, ordinarily, twenty-nine, an intercalary day being added. It is so called because in that month funeral lustrations were performed at Rome. It was introduced into the calendar by Nama, who gave it the welfth place; but the decemivir subsequently transferred it to where it now stands.

Fed?eral Hill, in Maryland, a P. O. of Harford co.

materials for their neets.— To feather on oar. (Naut.)
A term used in rowing, signifying the bringing of an oar-blade out of the water into a horizontal position, in such a manuer as to cut both wind and water without resistance from either.

—e. a. To throw or swing into a horizontal position; as, to feather an oar.

—The fusthering oar returns the gleam.—Tickell.

—The fusthering oar returns (Min.) A variety of alum. Same as Halotzucuita, q. v.

—The fusthering oar returns (Min.) A variety of alum. Same bed,

—as Halotzucuita, q. v.

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—The fusthering oar returns (Min.) or the nottice state, and threw a bloody spear within them, having proclaimed war according to a given formula before not less than three adult witnesses. The F, who took the oath in the name of the Roman people in concluding a treaty of peace, was called Pater Patertus. The college of F, said to have been instituted by Numa, is supposed to have been borrowed from the Greaks

The anal fork on which the larves of certain insects

carry their faces.

Fock lens. a. [See EFFECTLESS.] Feeble; weak; imbecile; deficient in spirit.

becile; dencient in spirit.

Fee'ula, n. [Lat. dim. of feets, lees; Fr. fleule.] A name applied to starch obtained from various sources, but more especially to the starch of the potato.—See STARGH.

Fee'ulence, or Fee wienery, n. [Lat. feculentia; Fr. fleulence.] Muddiness; quality of abounding with

lees or sediment.

lees; faces; seliment; dregs.
-lees; faces; seliment; dregs.
-lees; faces; seliment,
-lees; faces; seliment,
-lees; faces; foul; filthy;
-muddy; impure; excrementitious; abounding in impure

substances.

Fe'euméd, a. [Fr. fécond : Lat. fecundus, from the same root with fetus, an embryo; allied to Gr. phuō, to produce; Sanak. bhē, to be.] Fruitful, said of plants and animals; prolific; fertile; productive.

Fee'umédate, r. a. [Fr. fécondr : Lat. fecundare, from fecundus. See Supra.] To make fruitful or prolific; to impregnate.

Let. fecundate, See Supra.]

to impregnate.

Pecundation, n. [Lat. fecundatio. See FECUND.]
The act of rendering fruitful or prolific; fertilization; impregnation.—See Impregnation for fruitful or prolific; fertilization; impregnation.—See Impregnation for Lat. fecundus.]
Fruitfulness; the quality of producing or bringing forth in abundance, particularly the power in female animals of producing their young in great numbers.—Power of bringing forth; fertility; richness of invention; as, the fecundity of his intellect.
Fed. imp. and pp. of FEED, q. v.
Fed. ergal, a. [Fr. fédéral, from Lat. foedus, a covenant.]
Derived from an agreement or covenant: pertaining to a league, contract, or treaty, especially between states or nations; founded on compact by treaty or mutual agreement; as, a federal union of states.

"Courary to all federal right and justice."—Grees.

or nations; founded on compact by treaty or mutual agreement; as, a federal union of states.

"Costrary to all federal right and justice."—Gree.

F. government. A government formed by the union of several sovereign states, each surrendering a portion of its power to the central authority. But the amount of the power thus surrendered varies in different federations. Thus, the government of the German empire as it existed before the French revolution, and that of the United Provinces of the Netherlands, were both termed F.; and the Swiss cantons, under the present Swiss constitution, have retained more of their individual sovereignty than those of the United States of America, inasmuch as they have no permanent federal executive body, and their legislature, or dict, is little more than a meeting of delegates with full powers from separate republics to consider certain common concerns. (See Diet.) The theory of our constitution, on the contrary, recognizes not only unity in respect of foreign relations, but also a common legislature, which alone has the right to impose certain taxes (such as customs), to regulate the management of waste or public lands throughout the Union, &c., as well as a permanent common executive, consisting of the president and his cabinet, charged with the superintendence of those branches of administration which regard the whole community. Feddrealist, and ferralist, and charged them to a certain extent, with hostility to, formed in 1788, who claimed to be the particular friends of the Constitution and the Reperalists, and charged them to a certain extent, with hostility to, or distrut of, the Constitution and the general government. Their opponents, the Republicans, they called Anti-Federalists, and charged them to a certain extent, with hostility to, or distrut of, the Constitution and the general government. The leading F. were Washington, Adams, Hamilton, and Jay, and the leading Federalist States were Massachusetts and Connecticut, supported, generally, by the rest of New England. The "Contrary to all federal right and justice."-G

Ped'eralism, n. [Fr fédéralisme.] The principles of federals, or federalists.
Ped'eralise, v. a. [Fr. fédéraliser.] To make federate; to confederate for political ends and requirements; to unite in league and compact, as states and nations.
Ped'eral Point Light-house, in N. Carolina, on the N. side of the mouth of Cape Fear River. It exhibits a light 48 feet above the sea-level.

\*\*Add-eval-labmersh. in Maruland.a post-village of Carolina househ.

Federav'tion, 'n. [Fr., from L. Lat. federatio.] Confederation: act of joining in a longue.

—A federal or confederate government; a league; a confederacy; a compact; a bond of union.

Fed'erative, a. [Fr. fed'eratif.] Uniting or combining in a league; forming a confederation: federal.

Fe'dia, n. (Bot.) A genue of plants, order Faltrianacez, having a toothed calyx and 5-fid corolla, three stamens, and a 3-locular fruit, crowned with the calyx. The species are annual plants of humble growth, with repeatedly forked stems, and very small flowers, growing in cultivated grounds, &c. F. fagopyrum, the Corn-salad, or Lamb-lettuce, (the Macke of the French, and the Raphazecker of the Germans.) is frequently used in this country as spring-salad. The plant is extremely easy of spring, when vegetables are scarce.

Fedor, or Feedor, Ivanovirch (fai'dor.) the last car of the dynasty of Ruric on the throne of Russia. He began his reign in 1584, and being weak both in body and mind, assigned the government of his affairs to Goudonoff, who seems to have managed them with dexterity and vigor. In his reign the peasants of Muscovy were converted into serfs, and attached to the land. Previously they had enjoyed personal liberty. The conquest of Siberia was achieved by Gondonoff, and many remarkable diplomatic relations with foreign courts were effected; so that this reign may be deemed by us means the least remarkable in the Muscovito annais. D. 1598.

Fe'dor, or Feedor, Alexizvivch, czar of Russia, and

1598.

\*Pe'dor, or Feedor, Alexievivch, czar of Russia, and eldest brother of Peter the Great. He ascended the throne when only 19 years of age, and evinced a strength of will and determination of character, which had be lived, might have anticipated the reforms which his younger brother was subsequently destined to effect among the people over whom he was called to reign. His reign is rendered memorable on account of his calling into his presence the Muscovitz sobles who described in the processor. His reign is rendered memorable on account of his calling into his presence the Muscovite nobles, who desolated the country with broils about their claims of family precedence, and throwing the rolls of the Karriad, or "Arrangement," into the fire. The genealogical records, which did not relate to claims of precedence, were preserved and properly arranged, in accordance with his will. D. in his 25th year, 1682.

Fee. n. [Du. ve; Icel. fe; L. Sax. vee, cattle; Gr. pôii, a flock. The Goth. faths signifies goods, and is derived from fahus, to acquire.] Hire; stipend; reward; compensation for services rendered; recompense, either gratuitous or established by law, particularly for professional services; as, a lawyer's fee, a boatman's fee, &c. "Rothing in courts is does without a he." — Hubber.

(Frud. Law.) A fief: an estate in trust granted by a

(Frud. Law.) A flef; an estate in trust granted by a prince or lord, to be held on condition of personal serices or other condition

(Eng. Law.) Any land or tenement held of a superior on certain understood conditions.

on certain understood conditions.

(Amer. Law.) An estate of inheritance, on which the holder has a full right of proprietorship.

-c. a. To pay a fee to; to reward pecuniarily; to recompense for services rendered; to hire; to engage in one's service by advancing a fee or sum of money; as, to fee a houselver. physician.

"There's not a lord of them but in his house I have a servant feed." —Shaks.

Feeble, (fēbl.) a. [Fr. faible; O. Fr. fieble, from Lat. flebilis, lamentable; in L. Lat. used as equivalent to debilia, debilitated. See Debilit7.] Weak; infirm; debilitated of bodily system; destitute of proper physical strength; sickly; enervated; impotent.

Fee'ble-minded, a. Weak of intellect; defective in

Fee'ble-minded, a. Weak of intellect; defective in constancy or resolution; vacillating; irresolute; as, "comfort the feeble-minded."—I Thess. v. 14.

Fee'ble-minded."—I Thess. v. 14.

Fee'ble-minded."—I thess. v. 14.

Fee'ble-meas, n. Weakness of body or mind; imbecility; want of force or vigor; infirmity.

Fee'bly, adv. Weakly; without strength or force; as, to creep along feebly.

Feed, v. a., (imp. and pp. Frd.) [A.S. fedan, afedan; D. vocdan; Ger. füttern; Goth. fodjan. See Fodden; and Food.] To supply with nutriment; to give food to; te furnish with provisions; as, to feed a child.

"If thise seemy hunger, feed him."—Rom. xii. 30.

"If thine enemy hunger, feed him." - Ro m. xii. 30.

To supply; to furnish with anything of which there is constant consumption, waste, or use; as, to feed a fur-nace with fuel. — To graze; to consume or crop, as grass by cattle.

"Once in three years feed your mowing-lands." — Mortimer To pamper; to glut; to foster; to satiate.

To feed despair, and cherish hopeless love." - Prior.

-To fatten; to make fat or plump; as, well-fed oxen. "I will feed them in a good pasture." — Brek. xxxlv.

v. n. To take food; to eat; to subsist by eating; as, to

To prey; to encroach upon; to sponge; as, to feed on anticipation.

feed with an appetite. — To pasture; to graze; to crop; to place cattle to feed.

"If a man's beast shall feed in another man's field, he shall make resturation "— Exoc xxii. 5.

To prey; to encroach upon; to sponge; as, to feed on anticipation.

"I am not covetous of gold;
Nor care I who doth feed upon my cost."—Shabs.

"eed, n. That which is eaten by beasts, — particularly a certain allowance of provened or of odder devoured by cettle hors. As it of the a hours a feed. Pasture. Feed, n. That which is eaten by beasts, — particularly a certain allowance of provender or fodder devoured by cattle, hogs, &c.; as, to give a horse a feed. — Pasture; grass; needow-land.

"His bounds of feed are now on sale." - Shake.

"His bounds of feed are now on sale." — Sales.

Act of eating; a meal; — generally applied in a vulgar sense; as, we had a capital feed at his house.

Feed'er, n. One who gives food or supplies nourishment: one who fattens cattle for slaughter. — An encourager, exciter, or abettor; as, "thou wast the feeder of my riots." (Shaks.) — A fountain, stream, or channel that supplies a main canal with water. — A branch line of railroad, which furnishes additional business to the main stem

(Mining.) A lateral branch of a vein of ore, running into a lode.

Feed'-head, s. A tank high enough to supply water,

by its own gravity, to the boiler of an engine.

eed'-heater, n. (Mach.) That vessel in which the
water for the boiler of a steam-engine is heated by the

Feed'sheater, n. (Mach.) That vessel in which the water for the boiler of a steam-engine is heated by the furnace before entering the boiler.

Feed'ing, n. A fattening; the act of eating; that which is eaten.—Affording food for animals; pasture-land.

Feed'ing Hills, in Massachusetta, a post-office of Hampden county.

Feed'ee, or Fi'ji, lalands, a group in the S. Pacific, comprising abt. 255, of which 100 are inhabited; Lat. bet. 15° 30' and 19° 30' S., Lon., bet. 177° E. and 178° W. Desc. Vclcanic, with a fertile soil, displaying a flora of remarkable luxuriance. Pop. abt. 150,000, generally in a state of entire barbarism. An American expedition under Lieut. Wilkes explored these islands, 1838-'42; and they passed under the sovereignty of Great Britain in 1874. Total area, 8,034 sq. m. Cap. Suva, on Viti Levu, the largest island.

Feel, v. a. (imp. and pp. Filt.) [A. S. grfelan, felon; Fris. Mel; Get. Thhen; Dan. foele; allied to Lat. palpo, palpdre, to touch softly.] To have perception of things by the touch; to touch; to handle; as, to feel one's way in the dark.

In the dark.

To have sensation excited by contact of a thing with
the body or limbs, or by any of the senses; to have the
sense of, as of pain or pleasure; to suffer or enjoy. Come near . . . that I may feel thee, my con." —Gen. xxvii. 21.

—To be affected by; to perceive mentally; to experience Woes . . . he best can paint who can feel th

To know; to be acquainted with; to have a real and just view of; as, to frel a sense of one's own littleness.—
To try; to sound: to search for; to explore; as, to feel one's way through a difficulty.

-e. s. To have perception of things by the touch; to be gifted with sensation; as, "the meanest thing that feels."—Wordsworth

Wordmonth.

To have the sensibility or the passions moved or excited Those who would make us feel must feel themselves.

"These who would make us feet must feet themselves."—ChruchkuTo give perception; to excite sensation; as, ice feels cold
to the touch. —To have perception in a mental sense.

—n. The sense of feeling; the perception caused by the
touch; as, a greasy feel.
Feel'er, s. An observation or remark, put forth or
thrown out as if casually, in order to ascertain the
views of others.

(Zoti) See Park

(Zoöl.) See PALP.

views of others.
(Zoil.) See PALP.

Feel'img, p. a. Easily moved; readily affected; possessing great sensibility; as, a feeling heart, a feeling sense of favor.— Expressive of great sensibility; sensibly or deeply affected; as, to speak with feeling eloquence.

Feel'img, n. The sense of touch; that power by which the mind through the nerves apprehends certain conditions of external objects or of the body itself.—The state of perception by the touch; the act of apprehending any object whatever; power of action upon sensibility.—Susceptibility; ince sensibility; excitement; emotion; sympathy with the distressed; tenderness of heart; as, a man destitute of feeling, our angry feelings.

(Pid.) Primarily, the feelings denote the perceptions which we have of external objects by the sense of touch; but the term has also come to be applied to our inward sensations: thus a man may have a feeling of pleasure from heat, or from contemplating a beautiful landscape. We have intellectual, moral, sensual feelings into two great classes, the mental and the corporal, or, in other words, into sentiments and sensations. Though, stricty speaking, all consciousness and all F. is only mental words, into sentiments and sensations. Though, strictly apeaking, all consciousness and all F. is only mental, yet there are certain feelings that are clearly marked yet there are certain feelings that are clearly marked out to be in proximate relation to the body; and these he terms sensual feelings, or sensations, while the internal or mental feelings he terms sentiments. The sensations are divided into two classes: those which accompany our perceptions through the five determinate senses of touch, twate, smell, hearing, and sight, and those which are comprised under the common or vital sense, as E of heat and cold, E of health, muscular F, &c. The sentiments may be divided into two classes; contemplative and practical, the former being the concomitants of our cognitive powers, or powers of knowledge, the latter of our powers of cognation, or of will and desire. The feelings are not primitive and independent states, but merely states which accompany the exertion of our faculties or the excitation of our capacities, and take

Fee's, M. [Fee, q.v., and Fr. taillé, cut.] (Law.) An estate descendible by inheritance, but limited to some special heirs.
Feet'leas, a. Wanting feet; as, "fretless birds." Cumden.
Feet'leas, a. Wanting feet; as, "fretless birds." Cumden.
Feete, v. a. and n. Same as Fraze, q.v.
Fehmerm, Fesmerm, (fa'mern, an island belonging to Denmark, lying in the Baltic, bet. Lat. 26°10' N., and Lon. 11° 12' E; area, 70 sq. m. Surface, level; snil, fertile, producing corn. Cattle are abundant. Ind. The inhabitants are mostly engaged in fishing and coastwise navigation. Fop. abt. 8,000.
Fehrbellins, (fere-beliew',) a town of Prussia, abt. 33 m. N.N.W. of Potsdam; pop. about 1,650. In 1675 the Swedes were here defeated by the elector of Brandenburg.
Feta, (fay'a), a large lake of Brazii, 130 m. N.E. of Rio Janeiro, connecting with the Atlantic by the Furado Canal. It abounds with fish.
Fetgm, (fane,) v. a. [Fr. feinder, from Lat. fagere, to

Cand. It abounds with fish.

Feigm, fanc. v. a. [Fr. feindre, from Lat. fingere, to form, to make; the root fig is found in Lat. figura.] To invent; to image by an act of the mind; to imagine; to contrive as an appearance or semblance; to assert by a fiction; to state as if true, that which is not so.

fiction; to state as if true, that which is not so.

To make a show of; to represent falsely; to pretend; to counterfeit; as, to feign lameness; to feign sickness.

Feigmed, (faned,) p. a. Invented; imagined; assumed; pretended; as, a fright friend, i. e., a false friend.

(Law.) A feigned issue is where a case is tried on fictitious presentment before a jury, in order to establish a question of fact subsequently to come up in a real cause.

Feigm'edly, adv. Not really; fictitiously; pretendedly.

Feigm'edness, n. Want of reality; fiction; pretence; deceit.

Feign'er, n. One who invents or devises fiction.

Feign'ing, n. Deceit; pretence; fiction.
Feign'ingly, adv. In a false manner; with assumed and unreal appearance.
Feint, (faint,) n. [Fr. feinte, from feindre. See Frien.]
A pretence; an assumed or false appearance.
(Mi.) A mock attack; as, "his remark was but a feint to clude the argument."

to clude the argument."

(Fencing.) An appearance of alming at one part of the body, when another is intended;—said of certain motions in boxing or fencing.

Feint, v. n. To make a mock or feigned attack.

Feit\*sui, n. (Min.) A stone much prized among the Chinese for making ornaments. Same as JADETR, q. v.

Felth\*ville, in Vermont, a post-village of Windoor co., abt. 65 m. 8.8.E. of Montpelier.

Felde\*gaper, n. (Min.) The common name of a family or group of silicious minerals varying much in appearance, and presenting numerous and complicated crystalline forms. The minerals included in this group are Anon-THITE, LABRADORITE, HYALOPHANE, ANDESITE, OLIGOCLASE, ALBITE, and ORTHOCLASE, all of which are described under their respective heads. The mineral Orthoclase is the common F. The mineral F. is the basis of so many rocks, and is distributed so widely in various forms, that der their respective heads. The mineral Dythoclase is the common P. The mineral P. is the basis of so many rocks, and is distributed so widely in various forms, that it almost ranks as a rock. Hardly any simple minerals, except quarts and limestone, are found in such large masses as feidspar. It is a constituent of granite, gueiss, mica schist, syenite, trachyte, and other rocks. Feld'spathic, or Feld'spathose, a. Of, or belonging to, feldspar.

Feleginya'ssa, a town of Hungary, cap. of district of Little Cumania, between the Danube and Theiss, 65 m. S.E. of Pesth. It is in the centre of a fine, fruitful country, and holds large cattle-markets annually. Pop. 21,362. Felicia'ma, in Kentucky, a post-village of Graves co, about 250 m. W.S.W. of Frankfort.

Felicians, in Louisians. See Eust and West Felicians. Feliciate, v. a. [Fr. filiciter; L. Lat. felicitare, from felix, happy.] To delight, or render very happy; to render prosperous.

—To congratulate; to express joy or pleasure; to compli-

der prosperous.

—To congratulate; to express joy or pleasure; to compliment; as, to felicitate on his marriage, promotion, &c.

Felic'itate, a. [L. Lat. felicitatus, pp. of felicitare, to make happy.] Rendered very happy; as, "I am felicitate in your love."—Shaks.

Felicitation, n. [Fr. felicitation.] Congratulation;

the act of complimenting.

Felic'itous, a. [Lat. felix, happy.] Prosperous; delightful; well selected, or applied; as, a felicitous word

Felic'itously, adv. In a happy manner; appropriately. Felic'itousness, n. Condition of being very apt or

mappy.

Felle'ity, n. [Fr. félicité; Lat. felicitas, from feliz, happy.] Prosperity; blissfulness; blessedness; bestitude; enjoyment of good;—especially applied to the jovs of heaven.

Felic'ity, in Ohio, a post-village of Clermont co., about 42 m. S.E. of Cincinnati.

42 m. S.E. of Cincinnati.

\*eTidee, or Filing, n.pl. [Lat. felis, cat.] The Cat
tribe, a family of carnivorous quadrupeds, including the
domestic cat, lions, tigers, panthers, leopards, and lynxes.
In these animals the destructive organs reach the highest
perfection. The head is short and almost rounded in its
form. The principal instruments of their destructive perfection. The need is short and almost rounded in its form. The principal instruments of their destructive energy are the teeth and claws, their strong, sharp retractile talons, with which all the four feet are armed, and the corresponding destructive nature of the dentary organs constituting the essential characteristics of the family. They have six small incisors in each jaw, the

exterior ones larger than the rest; two canine teeth in each jaw, long, sharp, conical, slightly incurved; eight premolars in the upper jaw, and four in the lower, furpremionar in the upper jaw, and noted in the lower, ini-nished with two roots, compressed, pointed, and serrated; and generally four fiesh-teeth, or true molars, in the up-per jaw, and two in the lower, very large, sharp-edge, and terminated by two or three points. In addition to this formidable apparatus of cutting-teeth, the tongue is covered with small recurved prickles by which they can clean from the bones of their prey every particle of flesh.

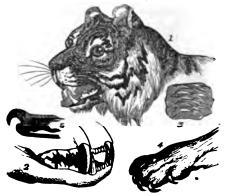


Fig. 997. — CHARACTERISTIC PRATURES OF THE PELIDIE. 1, tiger's head; 2, showing the dentition; 3, portion of tongue; 4, right fore-paw, showing claws; 5, claw, showing tenden.

l, tiger's head: 2, showing the dentition; 3, portion of tongue; 4, right fore-paw, showing claws; 5, claw, showing endoa.

The palate is soft, and that part of the tongue which corresponds with it is smooth; as it advances forward, it is covered with large soft papillse directed backwards; then there are four large fessulate papillse, anterior to which the simple conical papillse continue increasing in size to near the tip of the tongue. These papillse are are no quadrupeds in which the musclesof the jaws and limbs are more fully developed. The skeleton presents a light but well-built mechanism; the hones, though slender, are extremely compact; the trunk, laving to contain the simple digestive apparatus requisite for the assimilation of highly organized animal food, is comparatively slender, and flattened at the sides. The muscular forces are thus enabled to carry the light body along by extensive bounds, and thus it is that the larger felines generally make their attack. The five toes of the fore-feet and the four toes of the hind-feet of cats are armed with very strong, hooked, subcompressed, sharp claws, which are preserved from being blunted by a peculiar arrangement of the phalanges. For this purpose the claw-joint of each toe is drawn back by ligaments attached to the penultimate joint, until it assumes a perpendicular position, when the claw which it supports is completely retracted within a sort of sheath, and is entirely concealed by the fur. When, however, the animal springs upon its prey, the tendons of the fiexor muscles of the toes, overcoming the elasticity of the retractile ligaments, upon which the animal walks; this gives them the noiseless tread peculiar to this family. It will be seen, on reference to any members of the cat tribe, that their mode of walking is different form that of man, monkeys, or bairs The weight of the body rests only on the toes, and not on the entire foot. This manner of walking is termed "digitigrade," from the Lat. digitus, a finger, and gradus, a step. Cats hunt in can hardly be said that mastication is exercised. In the case of the lion, the stomach is divided, by a slight contraction in its middle, into two portions. As in most of the family, its muscular custs are very strong. In the carnivora, the stomach, which is of a cylindrical form, has no cule-de-sac; the esophagus opens at its anterior extremity, and the intestine commences from the posterior; so that everything fayors a quick passage of the food, which receives no mastication, and is retained a



Fig. 998. — the puma, or american panther. (Pelis concolor.)

cat they are 5 to one; but in the wild cat only as 8 to 1. The F. are found in all parts of the world except Australia, but principally in the warmer regions, where alone the larger species are met with.

Paline, a. [Fr. filin, Lat. felinus, from felis, a cat.]
Like a cat; pertaining to the cat tribe; as, feline remarks.

Ferlime, a. [Fr. felin, Lat. felinus, from felis, a cat.] Like a cat; pertaining to the cat tribe; as, feline rapacity.
Felipe, (Sam.) See San Fripe.
Felipe, (Sam.) See San Fripe.
Felipe, (Sam.) See San Fripe.
Felipe, a. [Lat. a cat.] (Zool.) The true Cat, a gen. of feroclous animals, family Filide. The species are described separately under Cat, Leopand, Lion, Ochion, Parvine, Tioga, and Yagoranyal.
Felix, a. [Lat. a cat.] (Zool.) The true Cat, a gen. of feroclous animals, family Filide. The species are described separately under Cat, Leopand, Lion, Ochion, Olivor, Parvine, Tioga, and Yagoranyal.
Felix, Claudius or Antonius, a Roman procurator of Judea, before whom Paul so "reasoned of righteousness, temperance, and judgment to come," that he trembled, saying, "Go thy way for this time: when I have a convenient season I will call for thee."—Felix rose from slavery, having been manumitted by Claudius Casar. To what qualifications he was indebted for his advancement may be surmised from the historian Suetonius, calling him "the husband of three queens or royal ladee." His rule in Judea, notwithstanding its severity, or rather in consequence of it was marked by constant disorders and disaffection; and, but for the interest of his brother (the notorious freedman Pallas) with Nero, the charges carried up against him to Rome would have been his ruin. Drusilla, "the Jewes," his second wife, had been seduced by him from her husband Asima, king of Emesa. Tacitus paints Felix in the darkest colors,—a character confirmed by what is related of him in the New Testament, that he had expected a bribe from Paul, and that, disappointed in this, he left him bound, "to show the Jews a pleasure."—Acts xxiii., xxiv.
Felix I., occupied the pontifical see during the banishment of Liberius, 356. In reply to a proposition for the recall of Liberius, 356. In reply to a proposition for the recall of Liberius, 356. In reply to a proposition for the recall of Liberius, and test selix should reign conjointly; but the people exclaimed, "One

church, and died in 492.

FILLI IV., a native of Benevento, ascended the chair after
John L, in 528. He governed the church with zeal and
piety, and died in 530. He introduced extreme unction.

Felix, in Illinois, a township of Grundy co.

Felix, in Illinois, a township of Grundy co.

Felix, in Illinois, a township of Grundy co.

Felix, in Illinois, a township of Moniteau co., abt. 38

m. W. of Jefferson city.

Felix Har'bor, of Boothia, in British N. America.

See Boothia Friix.

See BOOTHIA FELIX.
[62], a. [A. S. felle; O. Fr. fel, from fal, feale, bad wicked, fala, a grudge; allied to Let. fallere, and Gr sphallein, to deceive.] Cruel; barbarous; inhuman savage; rarenous: bloody.

"The keen hyens. fellest of the fell." - Th

"The keen byena. fellest of the fell." — Thomson.

Fell., n. [A. S. fell; Ger. fell; Icel. vildr; Goth, fill; allied to Lat. pellis, a skin.] The skin or hide of a beast; —used mostly in composition; as, a fell-monger, one who deals in hides or skins.

Fell., n. [Icel. fell, hill, fall, mountain; Sw. fyüll, a ridge of mountains; Ger. fell, a rock, allied to Gr. phella, a stone.] A stony or barren hill.

Fell., n. [From fell, pp. of fall.] The last weft of thread that terminates a piece of cloth in weaving.

Fell., v. a. [A. S. fellam, fyllam, v. causative from feallam, to fall; Ger. fillen.] To knock down; to bring to the ground; to cause to fall; as, to fell an ox. — To hew down; to cut down; as, to fell timber. — To hem or baste in sewing a seam.

Fell'able, a. Capable of being prostrated, or hewn down.

down.

'ellahu, s. pl. [Ar., poor.] The people in Egypt who
live in villages and cultivate the soil. They are the most live in villages and cultivate the soil. They are the most ancient race in that country, and are generally believed to be the descendants of the old Egyptians, their physiognomy resembling that which is found on the ancient sculptures. They are a patient and laborious population, but are heavily taxed, and subjected to great hardships. They form the great bulk of the population of that country.—See Egypt.

Fell'er, s. Oue who knocks or hews down.

Fell'ness, n. [See Fell, Cruen.] Cruen, base rage.
Fel'lor, n. See Fell, cruen.] Cruen, to follow; Icel.
Fel'low, n. [A. S. felaw, from fylgan, to follow; Icel.
felay, a partnership in goods, from fe, money, and lag.
a compact.] A companion with whom we consort: one
united in the same affair; an associate; a sharer; as,
"each on his fellow for assistance calls." (Dryden.)—
One of the same kind: a thing suited to another; as,
"this knave hath not his fellow." (Shake.)—An ignoble, mean,
ill-bred, or worthless man.
"Worth makes the man, the want of it the fellow." - Shake.

-A familiar appellation, usually of contempt; ss, "now. fellows, to your work." — A member of an English col-

fellows, to your work."—A member of an English college, or other incorporated society, sharing in its revenues.—A trustee of a college, (U. S.)
—In composition it indicates association for a purpose, or equality; as, our fellow-members, my fellow citizens.
Fellow-com/momer, n. At an English university, one who has the same right of commons with the Fellows: a student who dines with the Fellows.
Fellow-ereat'ure, n. One made by the same creator.
Fellow-helf, n. A co-heir; a joint-heir; one entitled to the same inheritance.
Fellowless, a. Matchless; peerless; without equal.
Fellowless, a. Matchless; peerless; without equal.
Fellowmen, n. pt. Men partaking of the same common nature.

Fel'lowmen, n. pl. Men partaking of the same conmion nature.

Fel'lowship, n. Partnership; mutual association of
persons for their joint interest. — Familiar Intercourse;
mutual association of persons on equal and friendly
terms; companionship. — State of being together; confederation; as, the fellowship of States.

(Arith.) A rule of considerable use in balancing accounts among partners in trade. Considered as an arithmatical process it is signally a method of dividing a process.

counts among partners in trade. Considered as an artimetical process, it is simply a method of dividing a number into parts which shall have given proportions to each other. Fellowship is either simple or compound. To simple fellowship belongs a question of this sort: "A contribution of \$20,000 is levied on three towns, and each is required to pay in proportion to the number of its inhabitants. Now the first contains 2,000 inhabitants, each is required to pay in proportion to the number of its inhabitants. Now the first contains 2,000 inhabitants, the second 3,000, and the third 5,000; what sum must each contribute?" This question is obviously the same as if it had been required to divide the number 20,000 into three parts, having the ratios of 2, 3, and 5, which is done by dividing 20,000 by the sum of 2, 3, and 5, which is done by dividing 20,000 by the sum of 2, 3, and 5, that is by 10, and multiplying the quotient by each of those numbers separately; the several results are the sums required.—Compound F, is when the parts into which the given number is to be distributed are proportional to more than one set of numbers. This is usually called F, with time, because in distributing the profits of a mercantile transaction carried on by several partners, the share of each must be proportional, both to the amount of the capital which he contributed and to the time during which it was employed. It must therefore be proportional to the product of these two.

Fellowship, v. a. To admit to fellowship.

Fellowship, in New Jersey, a P. O. of Burlington co.

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Fellowship, in New Jersey, a P. O. of Burlington co.

Fellowship, v. a. To admit to fellowship.

Fel'ly, adv. [From fell. See Sural.] Cruelly; fiercely; barbarously.
Fel'ly, or Fri'lon, m. [A. S. felg, felge, or fealga; Dan. felg; Ger. felge, a bending or turning; allied to lat. twicere, to turn, and Sans. para, to turn around.] One of the circular pieces of wood, which, being joined together, form the circular rim of a cart or carriage wheel. Felo-de-see, m. [Lat.] (Law.) A felon of himself: a self-murderer; one who, by premeditation, puts an end to his life; one who loses his life, while engaged in the commission of an unlawful act. As the offender is beyond the reach of human law, he cannot be punished.
Fel'em, m. [Fr. felon; felo, fello; A.S. fel, cruel. See Fill, a.] A cruel, bloodthirsty, and wicked person; one who has been guilty of a capital crime.

(Mod.) A whitlow; an inflammation in the joints of the fingers, or toes.

—a. Malignant; malicious; disloyal; issning from a de-

the fingers, or toes.

a. Malignant; malicious; disloyal; issning from a depraved heart; as, with folon intent.

Felo'nious, a. Wicked; traitorous; malignant; villanous; perfidious, destructive; proceeding from a corrupt heart; as, "a felonious thief."—Shaks.

Felo'niously, adv. (Law.) In a felonious manner. This word is necessarily used in all indictments for felonics, to describe the manner and intent.

Felo'niousness, n. Wickedness of heart; perfidiousness; villany.

ousness : villany.

reis incumens, n. wickedness of near; perindicusness; villany.
Fel'omry, n. The whole body of culprits convicted of capital crimes. — The convicts who remain in the penal colonies, after expiration of sentence. (England.)
Fel'omy, n. (Law.) F. in its general sense comprises every species of crime that occasioned, at common law, the forfeiture of lands and goods. This commonly was accessory to those crimes for which capital punishment either is, or was, liable to be inflicted. Hence, all of ences now capital are in some degree or other felony, as well as many others that are not capital, as suicide, homicide, larceny, &c., all of which are, strictly speaking, felonica, as they subjected the committers of them to forfeitures. The most probable derivation of the word is from the Teutonic or German fee, faf, or fed, and lion, price or value; felony being thus the pretium, fruit the consideration for which a man gives up his fief. — In the U. States the word has no clearly defined meaning at common law, but includes offences of considerable gravity. It is, however, clearly and fully defined by gravity. It is, however, clearly and fully defined by statute in many of the States. 'el'site, n. (Min.) Compact feldspar. See ALERTE.

very short time in the stomach. The intestine has no valves, a small in diameter, but muscular, and the whole canal, when compared with the length of the body, is extremely short, being as 3 or 5 to 1. In the domestic extremely short, being as 3 or 5 to 1. In the domestic

ish. (hmp. Sulph. acid 17-2; alumina 44-1; water 38-7. Fel'spar, n. (Mm.) Same as Feldspar, q. v. Felt, imp. and pp. from Feel, q. v. Felt, imp. and pp. from Feel, q. v. Felt, n. [A. S. felt; Ger. file, wool wrought together; O. Fr. fruitre; Fr. fruitre; Lat. filtrum, allied to Lat. plicare, to fold, and Gr. pilos. wool or hair wrought into stuff.] (Manut.) The material formed by uniting and compressing fibres of wool, fur, and other substances fit for the purpose, into a compact body, by what is termed the felting process. This consists in mixing the fibres of the materials employed until they become interlaced or matted together in the form of a soft, loose cloth or sheet, which is done by the instrumentality of carding- and doffing-machines. The cloth is then wound on a roller, and carried to the felting-machine, in which the fibres are combined and interlaced still more closely by the action of heat and pressure until the loose subthe fibres are combined and interlaced still more closely by the action of heat and pressure, until the loose substance is converted into a close, thick material, possessed of great strength and durability. P. of a fine kind is used for making hats (see HAr); and a coarser description is used for table-cloths and carpets. A stiff rough P. is also manufactured for making roofing for sheds, and coverings for hay-ricks and cornstacks, as well as supplying a lining to the copper sheathing of vessels; and another sort for covering steam-boilers, for which it is well adapted on account of its properties as a non-conductor heat. The last-named material is made of the waste woollen cloths used in paper-mills, reduced to a pulp, and beaten together after being put on the boiler in a wet state. It is then allowed to dry, when it becomes stiff, solid, and utterly impervious to heat. All the other different kinds of F. are made by amalganating the materials by the agency of heat moisture, and pressure. Table-cloths of this material are either embossed, having a raised pattern in one color on a ground of another materials by the agency of heat, moisture, and pressure. Table-cloths of this material are either embosed, having a raised pattern in one color on a ground of another hue, or printed in a variety of tints and designs. Carpets of P. are also printed in colors. In addition to being inexpensive, they are warm and comfortable, the closeness of their texture preventing draughts of air from entering an apartment through crevices in the flooring; they are also tolerably durable, but, on account of the pattern being printed on the surface of the fabric, the colors are apt to fade and become obliterated by constant wear. Roofing-F is rendered water-proof by being soaked with a preparation of tar or bitumen; it is cheap and much used for roofs, being impervious to rain. To preserve it from danger by fire and from the effects of the weather it is covered with coal-tar and a layer of sand or fine, clean gravel. Felt is also used for lining wooden buildings and the walls of rooms that are affected by damp. It is further used for water-tight compariments in ships, for some kinds of heavy clothing, for lining coats and dresses, and a great variety of other purposes. Some ascribe the invention of F. to St. Clement, who found the carded wool, placed in his shoes to protect his feet while on a pilgrimage, worked into a felt by the pressure and moisture; by others it is said to have been invented by the Saracens, who used it as a covering for their tents, and introduced into Europe at the time of the Crusades.

of the Crusades.
'elt, v. a. To make cloth, or stuff of wool, by fulling.

—To surround with felt; as, to felt the driving axle of a mill.

a mill.
Felt'er, v. a. [From felt.] To clot together like felt.
Felt'-graim, n. The grain of timber transverse to the annular rings.
Felt'ing, n. The wool, or wool and fur, from which felt is nade.—The cloth itself after manufacture.—Act

felt is made.—The cloth itself after manufacture.—Act of splitting timber transversely to the annular rings. Fel'tom, in Delacore, a post-village of Kent co. Fel toms wille, in Massachusett, a village of Middlesex co., about 34 m. W.N.W. of Boston.
Fel'tree, Hanai Jacques Guillaune Clare, Duo de, a marshal of France, B. (of an Irish family) at Landrecy, 1766. In 1731 he entered the Military School at Paris; in 1790 he accompanied the French embasy to London, and was, afterwards, imprisoned during the Revolution. He was subsequently employed by Carnot: and the Di-He was subsequently employed by Carnot; and the Directory, in 1795, appointed him general of division. In 807 he became minister of war, and was created Duc de Fitre. Though indebted to Bonaparte for his dukedom, he contributed towards the restoration of the Bourbons, by whom, in 1816, he was created marshal of France. D. 1818.

D. 1818.
Feltre, (fail'tra,) (anc. Feltria,) a partially fortified town of N. Italy, prov. Belluno, on a hill at the foot of the Alps, near the junction of the Colmeda with the Plave, 16 m. 8.W. of Belluno. It is a handsome and well-built place, with some silk manufactures, and the centre of an extensive trade in silk, wine, &c., the produce of the country about. Pop. 5,995.
Feltre, n. A kind of cuines made of wool.

Telts, in N. Car., a
P. O. of Wilkes co.

P. O. of Wilkes co.
Felt's Mills, in
New York, a postvillage of Jefferson
co., abt. 160 m. N.W.
of Albany.
Felue'es, n. [Span.
faluca' ital. feluca.]
A small vessel used
chiefly in the Mediterranean and adja-

terranean and adiant waters for co ing voyages. It has a low, graceful, and



buoyant hull, with a high stem and raking stern, three masts, letern sails, a jib set on a small bowsprit, and long, powerful ours to assist their progress during calms. Before the introduction of steam they were often used

se gunboats.

Fel'wort, n. (Bnl.) See Swerts.

Fe'male, n. [Fr. fémelle; Lat. fem-lla, dim. of femina, a woman.] One of the sex that conceives and brings forth young; as, "male and female of each living thing."

young; as, "male and female of each living thing."

Dryden.

(Bot.) The plant without stamen, but bearing the plattl, which, upon impregnation with the pollen of the staminated flower, becomes productive.

Fermale, a. Noting the sex which produces young; not naise.—Feminine; characteristic of the sex; delisate; effeminate; destitute of manly qualities.

(Bot.) Fistiliate; having no stamens.

Female rhymes, are double rhymes, so called because in French, from which the term is taken, they end in e weak or feminine. ss.

weak or feminine, as,

"The excess of heat is but a fable,
The torrid zone is habitable." — Cowley

The female screw, is the cavity into which the screw

is inserted.

Fe'malis, or female organs, but not with stamens, or male organs of production.

Fe'malist, n. One who dangles after women; a gallant. Fe'maliste, v. a. To effeminate; to render feminine; to make unmanly.

Feme-cov'ert, n. [O. Fr. fome, a woman, covert, pp. of counier, to cover.] (Law.) Same as Coven-barco, q. v. Feme'erell, n. An opening in a roof for the escape of smoke, or for purpose of ventilation.

Feme-sole', n. [O. Fr. sole, single.] (Law.) A single or unmarried woman.

Feme-sole', n. [O. Fr. sole, single.] (Law.) A single or unmarried woman.

Feme-sole', n., pl. [O. Ger. Fem. punishment, and Gericht, court of justice.] The name of celebrated socret tribunals which existed in Westphalia, and possessed immense power and influence in the lith and lith centures. They are said by some to have been originated by Charlemagne, but it is more probable that they were relies of the auxient German courts of justice, which continued to exist in Westphalia after they had ceased in other parts of Germany. The F. first came into notice after the deposition and outlawry of the Emperor Henry the Lion, when all law and justice seemed to be set at defiance, and anarchy everywhere prevailed. In such circumstances the secret tribunals took upon themselves the protection of the innocent and defenceless, and inspired with salutary terror those whom nothing else would keep in check. These tribunals soon acquired great power, and spread themselves over the whole of Germany, though their principal seat still continued to be Westphalia, the red Land, as it was called, probably on account of its clayey soil. The secrecy with which they carried on their operations, and the power they manifested in carrying out their sentences, rendered them the terror of all Germany, and princes and nobles segerly sought administion into their sentences, rendered them the terror of all Germany, and princes and nobles segerly sought administion into their sentences and nobles segerly sought administion into their sentences and nobles s

now bring forward six witnesses in his favor, the accuser might strengthen his oath with fourteen witnesses: and sentence of acquittal did not necessarily follow until the accused had supported his case with the oaths of twenty-one witnesses. The judges were all armed, and dressed in black gowns, with a cowl that covered their faces like a mask. The condemned, as well as those who did not obey the summons, were then given over to the Freischöffen. The first Freischöffe who met him was bound to hang him on a tree; and if he made any resistance, it was lawful to put him to death in any other way; and a knife was left by the corpse, to indicate that it was a punishment inflicted by one of the Freischöffen. The punishment, however, was rarely inflicted on those who readily appeared, the judges being satisfied with cautioning the offender to redress the wrong he had been guilty of. At length a great outcry was raised against these courts, and in 1461 various princes and cities of Germany, as well as the Swiss Confederates, united in a league to resist the free judges, and to require that the trial of accused persons should take place in open day. Their influence, however, was not entirely destroyed until the public peace was established in Germany, and an amended form of trial and penal judicature introduced. Gethe, in his Götz oon Bertichingen, has given an account of the workings of those secret tribunals; but the best historical account of them is by Paul Wigand, Das Fehmgericht Westfalens, Hamm., 1825. Femm'imal'sty, n. Female nature.

FENC

sex.
Feminal'ity, s. Female nature.
Femine'ity, s. Quality or nature of the female sex.
Fem'inime, a. [Fr. feminis, feminise; Lat. feminises
from femina, a woman.] l'ertaining to women,—the
opposite of masculine.—Soft; tender; delicate; effeminate; destitute of the manly qualities.

" Her form more soft and feminine.

"Her form more soft and fundates."—Mileo.

Frining grader. See GENDER.

Fem'ininely, adv. In a manner peculiar to a woman.

Fem'inineness, n. Quality of being like a woman.

Femme Grage, fem-out, in Missouri, a post-village
of St. Charles co., abt. 45 m. W. of St. Louis.

Fem'oral, a. [Fr. femoral; Lat. femoralis, from femur,
the thigh.] Belonging to the thigh; as, the femoral artery, the femoral vein.

Feynman, n. of France. [Lat. the thigh.] (Anat.) Or

the thigh.] Belonging to the thigh; as, the femoral artery, the femoral vein.

Fe'muse, n.; pl. Femora. [Lat, the thigh.] (Anat.) Os femoria, the first bone of the leg or pelvic extremity. Bee Thioh, and Leo.—The first joint of the leg of an insect, which is long, and usually compressed.

(Arch.) The interstitial space between the channels of the triglyphs in the Doric order. These femora are sometimes called the logs of the triglyphs.

Fen, n. [A. S. fen, fenn; Ger. fenne; Icel. fen, allied to Fr. fange; L. Lat. phanus; Sansk. panka, mud; W fynn to abound.] Muddy land; land partially or entirely covered with water, but producing sedge, coarse grass, and other aquatic plants; bogy land; a moor; a marsh; a bog; a swamp where water stagnates.—Used frequently in compound words, as fen-fowl, fen-land.

Fem-beffy, n. A species of blackbery.

Femee, n. [From fend. Ois. Lat. fendere, fensus. See Defyen.] That which guards, protects, or defends; a security; a cover; a shield; as, "there's no fence against inundations."—Inclosure; mound; hedge; fortified boundary; anything to restrain entrance or approach.

inundations." — Inclosure; mound; hedge; fortified boundary; anything to restrain entrance or approach. — Skill in the arts of manual defence; especially applied to skill and readiness with the sword; hence, defence in argument; quickness at repartee. — A man who receives knowingly stolen goods; the place where such goods are kept. (Cant.)

To be on the fence, is said of a person who has not committed himself to either political party on any matter or question.

question. emee, v. a. To defend; to guard; to inclose with a wall or anything that prevents the entrance or escape of cattle; to secure by an inclosure; as, "a sheep-cote fenced about with olive-trees." — Shaks.

Jeneeu about with olive-trees."—States.

To give security to; to fend off danger from; as, "to fence my ear against thy sorceries."—Milton.

Fence, v. n. To practise the art of fencing; to fight and defend by giving and avoiding blows and thrusts.

"He will fence with his own shadow."- Shake.

"He will fence with his own shadow."—Shake.

To raise a fence; to act on the defensive; to guard against; to make secure; to avoid danger; as, to fence a field, to fence a question, &c.

"Viec... is in the first place to be fenced against."—Locks.

Fence-leas, a. Without a fence; exposed.

Fence-month, n. (Law.) The month during which, in England, hunting in any forcet is prohibited.

Fen'cer, n. Une who fences; one who teaches or practises the art of fencing or sword-play.

"Conning fencers suffer heat to tire."—Herbert.

"Cunning fencers suffer heat to tire."—Herbert.

"Canalag fencers suffer heat to tire."—Herbert.

Femce'-roof, n. A defensive covering.

Fem.'cible.a. That may be defended; capable of defence.

—n. pl. (Mil.) Soldiers enlisted for the defence of a state or country, but without liability to be sent abroad.

Femc'ing, n. The art of using skilfully, in attack or self-defence, a sword, rapier, or bayonet; but usually taken to mean address in the use of the second of these weapons. In the school of fence the foil is wielded. The foil is a circular or quadrangular rod or blade of pliable, highly tempered steel, blunted and covered with leather nighty tempered steel, blunted and covered with leather at the point, so as to prevent accidents in its practice. From its nature, the foil can only be employed in thrusting, and, being edgeless, it can be handled without listing, and, toutting wounds. In length it varies between 31 and 38 inches, and, for the purposes of the art, it is divided into two parts,—the forts, which occupies the half of the blade ending with the hilt, and the faible, which occupies the other half terminating with the button. During the pastime, the fencers wear a strong wire mask upon their faces as a defence against accidental thrusts, &c. P. was cuntivated by the ancients; the Boman gladiators instructed the soldiery of that period; but as their weapons differed so materially from those of the present day, and as they defended themselves by shields and armor, their methods were infinitely less complicated and efficient than those of the present day. During the period comprised within the Middle Ages, P. became greatly neglected, and this was owing most likely to the fact that there was a great improvement in the armor worn by knights in battle; from which circumstance battle-axes and other ponderous weapons of offence were substituted for the aword. When metal casing became somewhat, if not altogether disused, F. came once more into vogue; and as all gentlemen worre-awords, and quarrels were matters easily yot up, it was absolutely necessary that all should have some knowledge of the "fence." The peculiar state of society in Italy made this even more needed than in any other country, and it followed that the Italians became the best fencers in Europe. Spain next found the art necessary, and soon France, in which latter country it created such a favorable impression that a school was established for its prosecution, and new improvements were found out every day in the science. The early Italian and Spanish schools taught the management of the sword, aided, generally, by the dagger or the mantlet; the shifting of the position of the fence was also necessary to swoid attack but since the habit of wearing the dagger and mantlet has been aliandoned, and the velocity of attack and defence become so great, instruction in P. has been strictly limited to the foli, and shifting position would be fatal to one engaged. In F. there are three openings or entrances, —the inside, comprising the whole breast from shoulder to shoulder; the outside, which can be attacked by all the thrusts made above the wrist on the outside of the sword; and

A system or succession of fences, as of a railroad, &c.

Fem-cricket, n. (Zoz.) Same as Moleculeur, q. r.

Femd, v. a [Ois. Lat. fendo, root of defendo.] To defend; to guard, to keep off; to shut out; to debar from - sometimes followed by off; as, to fend of a entrance: boat alonguide.

entrance; — sometimes followed by off; as, to fend of a boat alongside.

—v. n. To act on the defensive, or in opposition; to resist; to counteract; to parry; to shift off a charge.

Femder, n. That which defends or wards off; particularly a detachable device used on the front of a trolley car, consisting of a metal frame-work, with rubber buffer, springs, and a net, to pick up and remove obstacles from the track; also a frame-work of steel, brass, or iron used to prevent live coals from an open grate from rolling forward upon a hearth or floor.

—pl. (Nast.) Pieces of old rope, or billets of wood, hung over the sides of ships to prevent injury or chafing from contact or collision with other ships alongside.

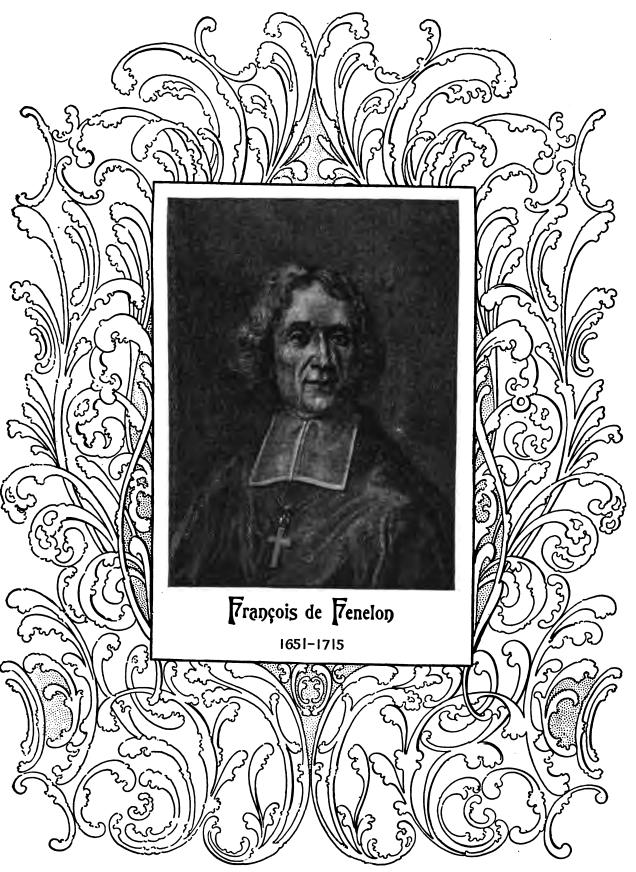
Fem'der-bolts, n.pl. (Nast.) Iron plus placed in the sides of ships, to protect the timbers.

Fem'der-biles, n.pl. Wooden piles driven to protect work either on land or in water.

Fem'duck, n. (Zoil.) A common name for a wild duck, as a shoveller, that lives in marshy ground.

Fém'élem, François de Salignac de La Moure, Archishop of Cambral, was B. in 1651, at the châtean de Fénélon, in Périgord, of a family illustrious in church and state. He studied at Cahors and Paris, where he made such progress in the most difficult studies, that, in

and state. He studied at Cahors and Paris, where he made such progress in the most difficult studies, that, in list 15th year, he preached with great applause. At the age of 24, F. took holy orders, and commenced his regardler ministerial functions in the parish of 8t. Sulpice He was afterwards appointed chief of a mission for the conversion of heretics in Saintonge and Aunis; and on his return he became known to the public as a writer, by a work, Sur le Ministère des Pusteurs, and a treatise, De l'Education des Pilles. In 1639, Lonis XIV, intrusted to him the education of his grandsons, the dukes



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of Burgundy Anjon, and Berri. F. was successful in forming the mind of the young duke of Burgundy, heir-presumptive to the throne of France, and sowed the seeds of every princely virtue in his heart; but his premature death blasted the pleasing anticipations entertained respecting him. In 1694, F. was created archbishop of Cambrai; soon after which, a theological dispute with Bossuet, his former instructor, respecting the devotional mysticism of the celebrated Madame Guyon, whose opinions F. favored, terminated in his condemnation by Pope Innocent XII., and his banishment to his Idiocess, sustaining the venerable character of a Christian philosopher, and scrupulously performing his sacred duties. His works in the departments of philosophy, theology, and the belies-lettres, have immortalized his name. He was familiar with the best models of ancient and modern times, and his mind was animated by a gentle spirit of benevolence. In person and manners F. was one of the most attractive of men. He wrote many excellent works: among the chief of which may be recknot his Dialogues of the Dead, Dialogues on Eloquence, &c. But his most celebrated production is his Adventures of Telemachus, in which he endeavored to exhibit a model for the education of a prince; and more pure and elevated maxims were never woven into a tale either of truth or fiction. His death was accelerated exhibit a model for the education of a prince; and more pure and elevated maxims were never woven into a tale either of truth or fiction. His death was accelerated by the overturning of his carriage, which brought on a fever, and the amiable and virtuous prelate expired in Jan, 1715.

Pem elow, in Ohio, a village of Stark co., about 8 m. N.N.W. of Massillon.

N.N.W. of Massilion.

Femelom Falls, a post-village of Ontario, co. of Viotoria, about 16 m. N. of Lindsay.

Femestel'lm, n. [Lat. dim. of fenestra, window.] (Eccl.)

The niche at the side of an altar containing the piscina, a vessel for holding water to wash the hands of the official property. officiating priest.
(Arch.) A little window.

(Arch.) A little window.

Femes'tra., N. [Lat., a window.] The name of two apertures in the stony portion of the temporal bone appertaining to the internal ear.— See E.A.

Femes'tral. a. [From Lat. fenestra.] A window-blind or casement covered with cloth or paper in lieu of glass.—a. [Lat. frenestralis, from fenestra; W. ffenestr, an opening.] Pertaining or relating to a window.

Femes'srate.a. [Lat. frestratus.] Having the appearance of being perforated with large holes,—generally applied to the transparent spots observable on the winzs of some insects. wings of some insect

s'trated, a. (Arch.) Possessing or chara by windows

by windows.

Fenestration, n. (Arch.) Processing or characterized by windows.

Fenestration, n. (Arch.) The system of construction and node of design marked by windows;—in contradistinction to columniation. Fenestration and columniation are so far antagonistic and irreconcilable, that P. either interferes with the effect aimed at by columniation with insulated columna, as in a portice or colon-inde, or reduces it, as is the case with an engaged order, to something quite secondary and merely decorative. Astylar and fenestration on the theorems; but as they are not, that of columnar fenestration has been invented, to denote that mode of composition which unites fenestration with the semblance, at least, of the other. Employed as a collective term, P. serves to express the character of a building or design with regard to windows generally; thus it is said the P. is excellent, or the contrary,—ornate or meagre, well arranged or too crowded,—which last circumstance is a very common fault, and is destructive both of grandeur and of repose.

grandeur and of repose.

Fenks, n. The ultimate refuse of the blubber of the whale.

whale.

Fe'miams, n. pl. The name adopted by an Irish secret society formed in the U. States for the purpose of subverting British supremacy in Ireland. The origin of the name cannot with any degree of positiveness be determined, but we find, according to tradition, that the Feniams, Fenia, or Finams, were a national militia established in Ireland by Finn, Fingal, or Finnu (McCoul) the son of Cumbal, and son-in-law of King Cormac, (a. b. 213-253.) Other authorities regard the ancient F. as a distinct Celtic race, who migrated at an early period from Germany into the North of Scotland and Ireland; and others conjecture that the word is a corruption of Pheenicians. "Sir Walter Scott, quoting a Celtic poem, speaks of the "bare-armed Feniams." — (Antiquary, ch. xxx.)

Fen sace, n. (Zoll.) A beautiful little animal, genus

ch. xxx.)

en'mee, n. (Zoöt.) A beautiful little animal, genus

Fulpea, family Cunide. It is of a slight build, and

seidom measures more than a foot in length, exclusive

of the tail, which is fox
like and bushy, and

measures eight inches

in length. Its color is

very pale fawn with a Fen'nec

in length. Its color is very pale fawn, with a slight touch of jetty black at the base and extremity of the tail. Although without doubt a carnivorous animal, the F. is especially fond of the fruit of the datepalm, and is said to be able, and frequently to exercise his ability, to Fig. 1000. — NUBIAN FENNEC. climb the lofty trees, and gather the dates.

Bruce, who claims the honor of introducing the F. to mollowing elegance executable in high circum.



soblogical science, asserts that it builds its next in trees. In later times, however, it has been certainly ascer-

tained that it burrows like the foxes. It is of nocturnal habit.

em mel, n. [A. S. finol; Ger. fenchel; Bohem. fenikl; Lat. feniculum, dim. of fenum, hay.] (Bot.) See Funi CULUM.

Fen'mel-flower, n. (Bot.) See Nickla.
Fen'mer, in New York, a post-township of Madison co., abt. 112 m. W. by N. of Albany.
Fen'mersville, in Panayleania, a post-village of Monroe co., abt. 110 m. N.E. of Harrisburg.
Fen'mimore, in Wisconsin, a post-township of Grant

Fem'mimore, in Wisconsin, a post-township of Grant co.

Fem'mish, a. Full of fens; fenny; marshy.
Fem'mis, or Fenn; a town of Ireland, on an island of the same name, which separates Ballyheigue and Tralee bays, abt. 8 m. W.N.W. of Tralee.
Femn's Bridge, in Georgia, a village of Jefferson co., about 40 m. E. of Milledgeville.
Femn'ville, in Michigan, a post-village of Allegan co.
Fem'nya, a. Growing in fens; boggy; marshy; moorish; as, a "fenny brake." — Frior.
Fem'sucked, (-sātt,) a. Sucked out of marshes.

"Fen-suck'd fogs, drawn by the powerful sun." — Shaks.

Fem'tom, a town and par. of England, co. Stafford, 3 m S.W. of Newcastle-under-Lyme. Manuf. Earthenware tiles, &c. Pop. abt. 6,227. Fem'tom, in Michigan, a flourishing township of Gene-

enton, in *Missouri*, a post-village of St. Louis co., abt. 16 m. 8, W. of St. Louis.

16 m. S.W. of St. Louis.

Femton, in Ohio, a post-office of Wood co.

Femton ville, in Michigan, a post-village of Genesee co., abt. 50 m. N.W. of Detroit.

—A village of Jackson co., abt. 10 m. S. of Jackson.

Femton ville, in New York, a P. O. of Chautanqua co.

Femtress, in Tennessee, a N. co., bordering on Kentucky; area, abt. 570 sq. m. Rivers. Obey's River, and other smaller streams. Surface, elevated, and in some parts mountainous; soil, moderately fertile. Min. Stone coal. Cm. Jamestown.

other sindine attents. Surjuce, reversed, and in some parts mountainous; soil, moderately fertile. Min. Stone coal. Ctp. Jamestown.
Fen'ugreek, n. (Bot.) See Fenum Greecum.
Feodal, (füdal,) see Fenum.
Feodal, (füdal,) see Fenum.
Feodary, (füda-try.) See Fenum.
Feodary, (füda-try.) See Fenum.
Feodary, (füda-try.) See Fenum.
Feodary, (füda-try.) See Fenum.
Feodary, (füfa-try.) See Fenum.
Feodar, (fif, v. a. [L. Lat. feofare; Fr. fefer. See Feel, (fef, v. a. [L. Lat. feofare; Fr. fefer. See Feel, (Law.) To give or grant to any one a corporeal hereditament; to enfeoff; to invest with a fee or feud.

-n. (Law.) A fief.
Feoffer, (fef-fe/, n. [L. Lat. feofator.] (Law.) One in whose favor a feoffment is made
Feoffer, Feoffer', n. [D. Fr. feofor.] (Law.) One who enfeoffs.
Feoffer at the first function of see or corporeal hereditament, as land, honors, or other immovable things: also, the instrument of conveyance of same.

(Eng. Law.) The gitt of grant of a tee, or corporeal hereditament, as land, houors, or other immovable things: also, the lustrument of conveyance of same.

Feracious, (fe-ra/shus). a. [Lat. ferux, from fere, to bear.] Abundantly fruitful, prolific, or productive.(a.)

Feree, (fere,) n.pl. [Lat., wild beasts.] (Zoll.) The name given by Linuseus to an order of Mammalia, nearly corresponding to the Carnicora of Cuvier.—See Carnivora. A term applied to animals, such as foxes, wild ducks, &c., in which no one can claim property.

Fe'ral a. [Lat. fradis.] Funereal; deadly; fatal; as, "feral maduess." — Burton.

Fer'berite, n. (Min.) A tungstate of iron with a little manganese; massive, granular, of black color, and imperfectly vitreous lustre. Hard. 4:1/2. Sp. gr. 6:801. Occurs in the Sierra Almagrena, Spain.

Fer'dimand. [From Ger. cerdienen, to merit.] The name of several European monarcha, of whom the following are the most noticeable:

are the most noticeable:

## EMPEROR OF AUSTRIA

EMPERON OF AUSTRIA.

FREDIMAND I., son of Francis, ascended the imperial throne of Austria in 1835, and continued to pursue the policy of his father, leaving the chief direction of affairs in the hands of Prince Metrzennes, q.v. In his reign, the republic of Cracow was annihilated, and a portion of it added to the empire. During the Revolutionary War of 1848 he dismissed Metternich, and made several concessions which were found insufficient. Vienna revolted in May, and P. at length retired to Olmütz, and on Dec. 2, 1848 abdicated, having no children, in favor of his nephew, Francis Joseph I.

EMPERORS OF GERMANT.

FERDINAND I., younger brother of Charles V., was B. at Alcala in 1503. He married, in 1521, Anna, daughter of Ladislaus, king of Hungary and Bohemia, became king of Bohemia in 1527, and at the same time contended with John Zapolski for the crown of Hungary. The war-lasted many years, and was terminated by an unsatifactory treaty. F. was elected king of the Romans in 1531, took the title of emperor on the abdication of his brother, Charles V., and was recognized by the electors in 1558. As the pope Paul IV., refused to acknowledge his title, it was resolved that the pope's consent should be thenceforth dispensed with in the election of the emperor. F was a moderate and just ruler, and especially aimed at reconciling the conflicting religious parties in the empire. He sent ambassadors to the council of Trent, which he saw closed the year before his death. D. at Vienna, 1564.

FERDINAND II., grandson of Ferdinand I., was B. in 1578.

He was crowned king of Bohemia in 1617, king of Hungary in the next year, and was elected emperor on the death of his council Matthias in 1619. His Bohemian

gary in the next year, and was elected emperor on the death of his cousin Matthias in 1619. His Bohemian

subjects revolted and chose for their king Frederick V., elector palatine, who reluctantly accepted the crown, and lost it by his defeat at the battle of Prague in 1620. Thus began the famous Thirty Years War, Catholics and Protestants contending for the supremacy—Tilly and Wallenstein distinguishing themselves at the head of the Imperial armies, Gustavus Adolphus, Bernhard of Sax-Weimar, generals Horn and Bannier, at the head of the Protestants. The bigotry and intolerance of F. led him, at the beginning of the war, to take the most violent measures against the Bohemian Protestants, and 30,000 families quitted the country. D. at Vienna, 1637.
FERDINAND III., the son of the preceding, B. 1608, was made king of Hungary in 1625, of Bohemia in 1627, and succeeded his father in 1637. Sweden and France being in alliance, gained several advantages over the Imperialists, which terminated with the peace of Westphalia in 1648. D. 1657. subjects revolted and chose for their king Frederick V.

succeeded his father in 1837. Swelen and France being in alliance, gained several advantages over the Imperialists, which terminated with the peace of Westphalis in 1848. D. 1857.

FERDINAND I., KING OF NAPLES, succeeded Alphonso I. in 1458. His false and cruel character provoked a civil war, in which John of Anjou took part with the barona, and the king was aided by the pope, Sforza, duke of Milan, and by Scanderbeg. The king defeated his rival in 1402, and made peace; but breaking his word, war broke out again. Again the king won, and established order by terror. He afterwards joined with the pope against the Florentines; but Lorenzo de Medici, by the bold step of a personal visit to Naples, succeeded in detaching him from that alliance, and negotiated a treaty of peace. He died in 1494, aged 70, detested for his debaucheries and cruelties, and at the very time that Charles VIII. of France was setting out on his celebrated expedition for the conquest of Naples. Frankand II., King of Naples in 1495; D. 1496.

FERDINAND III., is the same as Ferdinand V. of Spain, q. s. Frankand IV. of Naples, and I. of the Two Sicilles; B. 1751. He ascended the throne in 1759, and reigned in peace and security until the outbreak of the French Revolution in 1792, when, after the death of Louis XVI., F. joined the coalition engaged in the general war against France (1793-6). The victory gained at Aboukir by Lord Nelson again brought F. into a hostile attitude against the French, who summarily drove him from his kingdom, and inaugurated the Parthenopean Republic, in 1799. In the same year, however, his troops regained possession of the capital. In 1806 F. was again forced to abandon Naples, the crown of which Napoleon I. conferred first on his brother-in-law, Murat (q. v.), F., however, continuing to reign in Sicily under English protection. In 1814 the Congress of Vienna finally established F. sa fing of the Two Scilizs. Revolutionary movements, set affoat by the Carbonari (q. v.), compelled the establishment of a constitution, a Aberdeen in 1851, evoked one sentiment of indigitation and disgust throughout Europe. Even the most absolute of European sovereigns shared in this feeling, and grave remonstrances were addressed to him at the Congress of Paris in 1856. These proving unavailing, France and England proceeded in the same year to recall their ambassadors, and suspended all diplomatic intercourse, D. at Naples in 1859, execrated by the world at large.—See Bowl. See BOMBA.

Boe Bossa.

KINGS OF PORTUGAL.

FERDINAND, succeeded his father, Peter, in 1367. On the death of Peter the Cruel, king of Castile, he assumed the latter title, which produced a war between him and Henry of Transtannara, who ravaged Portugal, and forced Ferdinand to make peace and marry his daughter. This marriage he afterwards disconned, and entered into an alliance with John of Gaunt, duke of Lancaster, who laid claim to the Castilian throne. This war proved very disastrous to the Portugal-sea, and Ferdinand was obliged to sue for peace. Another war was entered into in which he was supported by the English, and was for a time successful, but was at last under the necessity of making peace. D. 1383.

FERDINAND, infant of Portugal, son of John I., passed into Africa, at the age of 14, to attack the Moors, and laid slege to Tangier. He was, however, made prisoner by the Moors, and spent the remainder of his life in

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captivity, dving of chagrin, 1443. — This prince's misfortunes have formed the subject of a great number of tunes have forme legends and tales.

KINGS OF SPAIN

legonds and tales.

Fird I., King of Casille and Leon, called the Great, was the second son of Sancho II., king of Navarre. By the death of Bermudo, in 1037, he became king of Leon. He then made war against the Moors, from whom he took several cities, and pushed his conquests as far as Portugal. He next declared war against his brother, Garcias III., king of Navarre, in which that prince lost his kingdom and his life. D. 1085.

Fird III., son of Alphonso VIII., king of Leon and Castlie, gained great advantages over the Portuguese, and made their king, Alphonso Henriquez, prisoner, whom he used with moderation. D. 1188.—In the reign of this prince the military order of St. James was instituted, for the purpose of defending the dominious of the Christian powers against the Saracens.

Fird III., son of Alphonso IX., obtained the crown of Castlie by the abdication of his mother, Berengere, in 1217, and that of Leon by the death of his father in 1230. He took many places from the Moors; but while he was projecting an expedition against Morocco, died, in 1252.—He was canonized by Pope Clement X., and is regarded as the founder of the university of Salamanca.

First III.—In 1309 Gibraltar was taken from the Moors by the Spanlards. This prince, in a fit of sniger, caused two noblemen to be precipitated from a high rock. Just before undergoing this fate, they told him that he would appear before God in thirty hours from that time. Their prediction was verified, and thence he obtained the name of the "Summoned."

before undergoing this fate, they told him that he would appear before God in thirty hours from that time. Their prediction was verified, and thence he obtained the name of the "Summoned."
FERDINARD V., called THE CATHOLIC, son of John II., king of Navarre and Aragon, was B. 1452. He married, in 1469, the Princess Isabella of Castile, in whose right he succeeded, on the death of her brother, Henry IV., to the throne of Castile. A rival claimant, Joanna, was supported by Alfonso, king of Portugal, who invaded Leon, and was defeated by F. at Toro, in 1476. Three years later F. succeeded his father in the kingdom of Aragon, thus reuniting the two crowns of Castile and Aragon, thus reuniting the two crowns of Castile and Aragon, it applied himself to the reform of the great abuses in the administration, and in 1490, at the instigation of Torquemada, established the Inquisition at Seville, and, after courage.ous resistance on the part of the people, at Saragossa also. One of the greatest events of this reign was the conquest of Granada. The war with the Moors began in 1483; victory after victory attended the arms of F., and in 1492 the capital city was taken after a siege of eight months. The "two kings," as they called Ferdinand and Isabella, made their entrance in January, 1493. The dominion of the Moors in Spain had lasted 800 years. By a cruel edict of the same year, 1493, the Jews in Spain were commanded to receive baptism, or quit the country in four months. Multitudes of them, counted at from 30,000 to 170,000, became exiles and the prisons were filled with those who remained. It was at this period that Columbus, with vessels furnished by F. and Isabella, made his memorable voyages and discovered America, which the Pope Alexander VI. assumed anthority to give to those sovereigns. The great Cardinal Ximence was then confessor to Isabella, and was at this period that Columbus, with vessels furnished by P. and Isabella, made his memorable voyages and discovered America, which the Pope Alexander VI. assumed anthority to give to those sovereigns. The great Cardinal Ximenes was then confessor to Isabella, and in 1493 was made archibishop of Toledo. In 1500, Gonaalvo was sent to make the conquest of Naples, which, partly by the sword and partly by the most uncurapulous perfidy, he effected. On the death of Isabella, in 1504, the kingdom of Castile passed to Philip, son-in-law of F: but on Philip's death, two years later, P. again assumed the government. In 1507 Ximenes became first minister, labored successfully for the conversion of the Moors, and achieved the conquest of Oran. The infamous League of Cumbray was concluded in 1508. Soon after Navarre was conquered and united to Castile and Aragon. P. D. in 1516 and was interred in the cathedral of Granada with his Queen Isabella. Of F's four daughters, one was married to the Archduke Phillip two in succession to Einanuel, king of Portugal, and the fourth, Catharine, first to Prince Arthur of England, and afterwards to his brother, Henry VIII. The brilliant History of the Reigns of Perdinand and Isabella, by Prescott, the American historian, is well known.

FERDINAND VII., son of Philip V., ascended the throne in 1746, and during the thirteen years of his reign was one of the most just and humane monarchs who ever ruled the Spanish destinies. He promoted the internal welfare of fils country, recognized the navy, encouraged manufactures, and by his judicious political conduct placel his elder brother on the throne of Naples, and another under the ducal canopy of Parma. D. 1759. The destruction of Quito, Lima, and Lisbon, by earthquakes, occurred in this reign.

FERDINAND VII., B. 1783, succeeded his father Charles IV. in 1808. Upon the entry of Napoleon's troops into Spain, P. was taken prisoner and carried to Valençay, where he and his family remained till 1813, when he was restored to his kingdom. After h

Don Carlos—an act that led to a long and disastrous civil war. See Carlists. Fer'dimand, in *Illianis*, a post-vill. of Bock Island co. Fer'dimand, in *Indiana*, a post-village and township

Fer'dinamd, in Illisois, a post-vill. of Rock Island co. Fer'dinamd, in Indissu, a post-village and township of Dulois co. Pop. of township about 1,000.
Fer'dussi, or Fradus, one of the greatest of the Oriental poeta, a in Persia, 916. His talents attracted the notice of Mahmoud, the reigning sultan, who received him with honor at his court, and employed him to write a metrical history of the Persian sovereigns. This work, which is called the Schahnameh, contained 60,000 counsists and compiled the root 30 ways during which work, which is called the Schahnameh, contained 60,000 couplets, and occupied the poet 30 years, during which long period F's enemies succeeded in prejudicing Mahnoud against him. Instead of being rewarded, according to promise, with 60,000 pieces of gold, the same number of the smallest silver coin was sent to him, which the poet indignantly distributed among the menials, wrote a severe satire on the sultan, and fied to Bagdad, where he D. 1020. Although the "Schahnameh" her before a value it is still unper read by his has little historical value, it is still much read by his countrymen for its poetic beauties and the excellence of its language and style. A complete edition of the works of F. was published at Calcutta, by Turner Macau,

in 1625.

\*\*ere'tory\*, n. [Lat. feretrum, a bier, from Gr. pheretron

—phero, Hob. pārā, Sansk. bhri, to bear or carry.] A
place in a church for a bier; a movable chest or shrine
in which bones or relics of a dead person were inurned.

place in a church for a bier; a movable cheat or shrine in which bones or relics of adead person were inurned. Ferenti me, (anc. Ferentiaum,) a town of Italy, 6 m. N.W. of Froshnone; pop. 8,714.

Ferghama, see Khokan.
Fergus I., king of Scotland, was the son of Fergus, king of the Irish-Scots, and was invited to Scotland to repel the Picts, and for this was chosen king. Drowned in his passage to Ireland, about 305 s. o.
Fergus, a river of Ireland, which rises in co. Clare, and, after a course of 30 m., embouches Into the Shannon, by a wide restuary, 10 m. from Ennis Fergus, a village of Untario, county of Wellington. Fergus, a village of Untario, county of Otter Indicated by Judith and Carrow rivers and Box Elder creek. Surface, mountainous. Miss. gold, silver and coal. Pop. (1897) about 4,800. Cap. Lewiston.
Fergus Falls, in Missesota, a city, cap. of Otter Tail co., on G. N. and N. P. R. Rs., 215 m. W. by S. of Duluth. Pop. (1880) 4,897.
Ferguson, Adam, a Scottish philosopher and historian, born in Perthabire, 1724. He was professor of moral philosophy in the Edinburg University, and is the author of Prisciples of Moral and Political Science, &c. The former of these has been often reprinted, and translated, and adopted as a text-book in some foreign universities; its principle is the admission of a noral sense. Died 1816.
Ferguson, in Missouri, a post-village of St. Louis co.

sense. Died 1810.

'err'guson, in Miscouri, a post-village of St. Louis co.

'errguson, in Pennsylvense, a township of Centre co.

-A township of Clearfield co.

'err'gusomite, s. (Mis.) A columbate of yttria, in tettagonal, hemihedral crystals. Lustre dull, externally brilliantly vitreous and sub-metallic on fracture. Color, brownish-black. Hard. 5:5-6; sp. gr. 5:538. Oc Cape Farewell, Greenland, and Ytterby, Sweden.

Fergusonville, in New York, a P. O. of Delaware co Fergusonville, in New York, a P. O. of Delaware co.
Ferguson, Jans., au English architect and author,
B. 1808. His principal works are, Illustrations of the
Rock-cut Temples of India; The Pulaces of Nineveh and
Persepolis Restored; and the Handbook of Architecture
(1855). F. is the architect of the Nineveh Court in the
Crystal Palace, Sydenham, near London. D. 1886.
Fergusson, Siz William, Bart, F. R. S., an eminent
English surgeon, B. 1808, and sducated at Edinburgh
University. Sir William was esteemed one of the leading consulting surgeons in Europe. is the author of A

Crystal Falax, Systems, and Crystal Falax, Systems, and Milliam Ras Fa. R. S., an eminent English surgeon, B. 1808, and educated at Edinburgh University. Sir William was esteemed one of the leading consulting surgeons in Europe, is the author of A System of Practical Surgery, which is held in the high-est estimation by the profession; and is the inventor of numerous surgical instruments, embodying ingenious improvements. P. was created a baronet in 1865, "in consideration of distinguished merit and eminence as a surgeon." D. Feb. 10, 1877.
Fe'rise, n. pl. [Lat.] (Roman Antiq.) Solemn religious festivals. The most celebrated were the Ferix Latine (Latin holidays), celebrated on the Alban Mount by all the states of Latium in common. This festival is said to have been originally instituted by the second Tarquin. At first it lasted for one day only; but in process of time it was extended to four. It was observed by the consuls regularly before they set out for their provinces.

ovinces.

provinces,
Fe'rial, a. [L. Lat. ferialis.] Belonging, or having
reference, to holidays.
Fe'rime, a. [Lat. ferinus, from fera, Gr. phēr, phēros,
a wild beast; probably allied to Heb. paratz, to rend.
Pertaining to wild beasts; wild; untamed; savage; fe-

Pertaining to wild beasts; wild; untamed; savage; ferocious.

—n. A wild beast; an animal of prey.

Ferish'ta, Mohammed Cassin, a Persian historian, who flourished in the 16th and 17th cent., was B. at Astrabad in Persia, but went early to India, and settled at Ahmedneggur in the Decean. He was liberally patronized by the Sultan of Visipore, under whose anapices he published his History of Hindostan under the Mussulmans, a work of acknowledged merit for impartiality and truth. An English translation by Col. Briggs appeared in 1829.

Fermanagh, (fermān'ā.) an inland co. of Ireland, prov. Ulster, having S. Cavan, B. and N. Monaghan.

Tyrone, and Donegal, and W. Leitrim. Area, 471,348 acres. Of this area, 48,797 acres are absorbed by Lough Erne and other waters. Surface, mountainous, and with a good deal of boggy land interspersed. Other parts are well wooded. Soil, tolerably fertile, producing

oats, barley, wheat, flax, and potatoes. Many cettle are reared. Iron-ore is found, but is little worked. Longh Erne (see E. xz) divides this co. into two nearly equal portious, and is celebrated for its romantic Leanty. Cop. Enniskillen.

sempore emocilianment.
For'ment, n. [Lat. fermentum, for ferreinentum—ferce, ferree, to boil up, to foam. See Ferrers.] That which causes fermentation, as yeast, leaven, &c. Intestine motion, or commotion; tumult; heat; agitation; as, one's blood is in a ferment.

"Bubdue and cool the ferment of desire." - Re-

"Babdas and cool the forment of desire."—Repure.

(Chem.) The substance which is essential to the process of fermentation. It is either naturally present in
the fermentable juice, as in the grape; or it is added,
as in the manufacture of beer, where yeard constitutes
the ferment. Ferments are of an albuminous or glutinous
character; the presence of nitrogen seems essential in
their composition; hence they are classed by chemists
among azotized compounds. Their modus operandi is
still unexplained. still unexplained.

still unexplained.

erment', v. a. [Lat. fermento, from fermentum.] To cause to boil up, rise or swell, by exciting into motion or agitation: to set in internal emotion; to heat; as, to erment

ferment liquors.

"Ye vig'rous swains! while youth forments your blood." - Pope . w. To rise and swell by internal commotion ; to work inwardly; to effervesce; to be in motion, or to be excited into sensible internal motion.

—To palpitate with rage or anger; to become in a state of active excitement; as, "a fermenting intellect." — De Q. Fermentabil'ity, n. Capability of being fermented on batch.

Ferment'able, a. Susceptible of fermentation, as a liquor.

ermenta'tion, n. [Fr.; L. Lat. fermentatio.] Act or process of fermenting. — Active or excited state of the mind or senses. "It puts the soul to for n and activity.

"It puts the soul to formentation and solivity." — Taylor.

(Chem.) The conversion of an organic substance into new compounds in the presence of a f-ranest. This ferment acts simply by its presence in the substance undergoing fermentation, and does not tak- anything from oradd anything to it. Certain extraneous conditions are necessary in all cases of F, for instance, the presence "water and a moderately warm temperature. There are various kinds of F, designated according to their products. In visious F, sugar, or any substance capable of being easily converted into sugar, is resolved into carbonic acid and alcohol, 45 parts of sugar yielding 22 of carbonic acid and alcohol, 45 parts of sugar yielding 22 of carbonic acid and 23 of sloohol. Thus when the juices of plants or fruits containing sugar are kept at a temperature of 70° for several hours, the liquor becomes turbid, and small bubbles of gas make their appearance; in common language, it has begun to work or ferment. Under the combined influence of warmth, noisture, and oxygen, the albuminous matter has become decomposed and a change has commenced, which, after it has once oxygen, the albuminous matter has become decomposed and a change has commenced, which, after it has once begun, continues until the whole of the gas has been eliminated. If the gas is collected, it will be found to consist of carbonic acid only, and on distilling the fer-mented liquor, a spirit lighter than water passes over, which is readily recognized as dilute alcohol. If the

consist of carbonic acid only, and on distilling the fermented liquor, a spirit lighter than water passes over, which is readily recognized as dilute alcohol. If the liquor be further examined with a microscope, it will be found to contain a number of oval organized bodies in the form of cells. These cells will be fully described under the head of Yasar. This yeast is the ferment in this case, and if dried at a low temperature, it will preserve its power of exciting P. for a long time. This power is stopped by several chemical agents, such as strong mineral acids, the alkalies, excess of sugar, certain corrosive metallic salts, creosote, carbolic acid, and the essential olls. The change taking place in the sugar may be made plain by the formula:

Grape-sugar — Carb. acid Alcohol.

C.H. 10-2 ACOs — 2(C.H. 10-2) ferments easily, but the process takes place most easily in fruit-sugar passand it is probable that both grape and cane-sugar passand fruit-sugar before they undergo the change of P. When P. is complete, 100 parts of fruit-sugar are resolved into 51:12 of alcohol and 48:88 of carbonic acid, so that the ferment adds nothing to and takes nothing from the elements of the sugar. The change that dough undergoes in bread-making is only a modification of the starch and sugar contained in the flour. (See Braza.). The change which commonly takes place when milk is allowed to ferment is the transformation of milk-sugar into lactic acid. This is the lactic acid P. The caseine of the milk acts the part of a ferment and induces the change in the sugar of milk. Other animal bodies are capable of effecting the same change in a shorter time; the use of rennet being a femiliar example. By fermenting a mixture of sugar, cheese, and chalk with the milk, a second stage of the process is reached, in which butyric acid is formed, called the butyric acid P. Liquoro containing sugar often pass into a ropy or thick condition, from the transformation, in part, of the sugar into a muriliarious substance resembling sumars of thic co outsping sugar often pass into a ropy or thick condi-tion, from the transformation, in part of the sugar into a mucilaginous substance resembling gum-arabic. This change is called viscous F. Ferments are of two classes,

Digitized by GOGIC

soluble and organized. The commonest of the former is colable and organized. The commonest of the former is distance, occurring in malt. Pepsin in gastric juice is another. The organized ferments are minute plants, which feed upon and decompose sugar or other substances in solution, and yield the products of F. Fermen'tative, a. [Fr. fermentatif.] Causing, or having power to cause or produce, fermentation; consisting in fermentation: as, a fermentative method. Ferment tailveness, n. State or condition of being fermentative

Fermentes'cible, n. A constituent of a fermenting body.

FERN

o, a walled city of Central Italy, until 1860 Fer'mae, a walled city of Central Italy, until 1880 cap of a delegation of same name, forming part of the States of the Church, prov. Ascoli, 3 m. from the Adriatic, and 32 S.S. & of Ancona. Its harbor on the Adriatic, called Forto di Fermo, is small, and but little frequented. Exp. Corn, silk, and woollens. F. was founded by the Sabines lefore Rome existed, was colonized by the Romans towards the beginning of the First Punic War, and was repratedly sacked by the Goths and other barbarians. In the 8th century the city was transferred to the Holy See. Php. 20,895.

See. Pop. 20,895.
Fermey', a thriving town of Ireland, co. Cork, on the Blackwater, 118 m. S.W. of Dublin. F., formerly a village, has, of late years, owing to the establishment of a barracks for troops, developed into a handsome town. Manuf. Paper. Pop. 9,575.
Ferm. or Farme, fallands, a group of 17 rocky islets of the N.E. coast of England, co. Northumberland; Lat. 55° 37' N., Lon. 1° 30' W. Two light-houses are found here, a vicinity noted for its perils to mariners. St. Cathbert died here, and his stone coffin is still pointed out. The "Forfarshire" steamer was wrecked here in 1838, when 9 persons were saved by the heroism of Grace Darling, the daughter of a light-house keeper, and the "Ida Lewis" of England. The islands are the haunt of myriads of eas-birds.
Ferm. a. (A.S. fears; Ger. and O. Ger. farn; allied to Gr. pt-ron. a feather.] (B.t.) See FILICES.
Ferman des. NAVARSTER, surnamed El Mudo, or "the Dumb," an eminent Spanish painter, S. 1526. He was

\*\*PFMAN\*GES, NAVARETTS, surnamed Et Mudo, or "the Dumb." an eminent Spanish painter, B. 1526. He was one of the most distinguished of Titian's pupils, and became painter to Philip II., for whom he adorned the Escurial with some of its finest pictures. Among his chief works are a Martyrdom of St. James, a Nativity of Christ, St. Jerome in the Desert, and his chef-d'œuvre Abraham with the three Anyels. F., whose brilliant coloring earned for him the name of the Spanish Titian, p. 1579.

D. 1579. Ferman'dez, (Juan.) See JUAY FERNAYDEZ. Ferman'dez de Ta'oz, in New Mexico, a post-village cap, of Taws co. Now called Taos. Fermand'ma, in Florida, a city, cap. of Nassau co. on Amelia Island, 33 miles N.N.E. of Jacksonville. Populational Computational Co

(1897) about 3,200.

on Amelia Island, 33 miles N.N.E. of Jacksonville. Pop. (1897.) about 3,200.

Permando-de-Apure, (Sam.) in Venezuela. See San Fernando-de-Apure, (Sam.) in Venezuela. See San Fernando-de-Apure, (Sam.) in Venezuela. See San Fernando-de Norom'ha, an island in the S. Atlantic Ocean, belonging to Brazil; Lat. 3° 50′ 4″ S., Lon. 32° 25′ 5″ W. It is 8 m. long, by a mean breadth of 2 m., and has a rugged, mountainous, wooded surface. It is used as a penal settlement for Brazilian offenders.

Ferman'do Po, an island in the Bighot Glinfra, 20 m. from the African coast, and about 40 in length by 20 in breadth; Lat. between 3° 10′ and 3° 44′ N., Lon. between 8° 22′ and 8° 54′ E. Dec. Mountainous in the interior, and presenting a rich and varied aspect of beauty and fertility. A large portion of its surface is covered with deuse forests of valuable timber, while the land gradually rises from the steep and rocky coasts into two peaks, culminating upwards of 10,000 ft. above sea-level. It is well watered, and the sugar-cane grows in spontaneous abundance. Yams form the staple food of the natives. Birds, some varieties of animals, and fish, are plentiful. Climate. Very unhealthy. Chief Stillement. Clarence Town. This island was discovered in 1471, by the Portuguese, who ceded it to Spain in 1778. The Spaniards eventually abandoned it, and the British, in 1824, selected it as a suitable military depot and naval station. They, in their turn, abandoned it in 1834, on account of its insalubrity. The Spaniards again took possession in 1844, and called the island Puerto de Island. It is now used by them as a penal settlement, to which, in 1869, seveni Cuban patriots were deported, as being political prisoners. s being political prisoners.

as being political prisoners.

Ferm Creek, in Kentuc:y, a P. O. of Jefferson co.

Ferm Creek, in Kentuc:y, a P. O. of Jefferson co.

Ferm Creek, in Kentuc:y, a P. O. of Jefferson co.

Ferm'Greek, in Culifornia, a post-rillage of Humboldt
co., abt. 15 m. S.E. of Kureka.

Ferm'ery, a. A place or building expressly devoted
to the culture and preservation of ferns.

Ferm'ery, a village of France, dep. Ain, 5 m. N.W. of
Geneva. This place not merely owee its celebrity, but
even existence, to its having been for a lengthened
period the residence of one of the greatest writers of
modern times. Voltaire purchased this estate in 1768,
and conferred the greatest advantages on F. Out of a
paltry village, consisting of a few miserable cottages, he
constructed a neat little town, in which he established
a colony of industrious artisans, principally consisting constructed a neat little town, in which he established a colony of industrious artisana, principally consisting of watchmakers from Geneva. The château, to which a fine small theatre was attached, was fitted up in a style of elegant simplicity; and his hospitalities were on the most liberal scale. Voltaire resided here, with little interruption, for more than 20 years. During the whole of this period, P. was to the literary and refined what Mecca is to the Mohammedan world; and the most distinguished personages of the time eagerly resouted to P. from all parts of Europe, to pay their respects to its illustrious master. Voltaire quitted P. for the last time, on the 6th of Feb., 1778. The inhabitants

cious beast, a ferocious look.

Ferociously, adv. With savagery or cruelty;
fiercely; rapaciously; as, he looked at me ferociously.

Ferociousness, n. Quality of being ferocious; savageness; ferocity; fierceness; cruelty.

Ferocity, n. [Fr. férocité; Lat. ferocitas, from ferox, fierce.] Savage wildness or fierceness; fury; cruelty; as, the ferocity of a Highland chieftain, ferocity of mien.

mien.

Feronia, (fero'ne-a.) (Myth.) A goddess at Rome, who presided over the woods and groves.

Feronia, n. [From the above goddess.] (Bot.) A genus of plants, order Aurantiacce. The species F. clephantum is a large tree, growing in India. A kind of guns, closely resembling gum-Arabic, exudes from its stem, and it is very probable that this constitutes part of the gum imported from the East Indies. The young leaves have an anise-like odor, and are used by the native ductors of India for their stomachic and carminative effects. The fruit is known as the elephant ative effects. The fruit is known as the elephant or wood-apple.

wood-apple.

Fe'rous, a. [Lat. ferus, wild.] Savage; untamed.

Fe'rous, a. town of Hindostan, British pres. Bengal, 24 m. E. of Agra; pop. abt. 10,000.—Also, the name of several minor places in India, Persis, &c.

Ferozepore', a town of N.W. Hindostan, dist. Sishind, near the Suti-j, 85 m. W. of Loodianah.—Another, prov. Agra, 6 m. 8.8 W. of Delhi.

Ferozeshah', a village of Hindostan, in Lahore, 10 m. E.N.E. of Ferozepore. Here, Dec. 21st and 22d, 1845, a British force of 16,700 men and 69 guns, under Lord Gough, utterly defeated a Sikh army of 50,000 men, with 108 pieces of cannon, which were nearly all captured. The British lost 2,415 men killed and wounded. tured. The British lost 2,415 men killed and wounded. Ferram'dline, n. A cloth composed of wool and silk. Ferram's, (fuir-ram'a,) a famous fortified city of Central Italy, cap. prov. of same name, and formerly an independent duchy under the rule of the House of Este, is situate in a low marshy plain, on the left bank of the Volano, 5 m. S. of the Po, and 28 N.N.E. of Bologna. Under the rule of its native princes, F was the seut of one of the most polished and refined of the Italian courts, and is said to have had from 90,000 to 100,000 inhabitants. But it has long been in a state of decay, and numbers is said to have had from 90,000 to 100,000 inhabitants. But it has long been in a state of decay, and numbers of its splendid palaces are uninhabited. The Duomo, or cathedral, was built in 1135, and is a vast but tasteless edifice. F. contains a great number of other churches, a university, and a fine public library (in which are deposited the MSS, and other relics of the poets Ariosto and Tusso), and one of the finest theatree in Italy. Its manufactures and trade are inconsiderable. The celebrity of F, is almost wholly derived from its association with two of the greatest names in the literature of Europe. Ariosto resided here, where, in 1516, was published the first edition of his immortal "Orlando;" and here, too, in 1533, he breathed his last. The house published the first edition of his immortal "Orlando;" and here, too, in 1533, he breathed his last. The house in which he lived is still carefully preserved. F., besides being the birthplace, is also memorable as being the place of imprisonment of the poet Tasso, (q. v.) Guarini, author of the Pastor Fido, and Cardinal Bentivoglio, were also natives of F. From a small town F. became a walled city, A. D. 670. The family of Este possessed it first as chief magistrates, and afterwards as hereditary sovereigns, from abt. 1039 to 1597; when, on the death of its last duke, and the extinction of the male line of the house, it was taken possession of by the pope. In 1796, the French entered F., and made it the cap. of the dep. of Basso Po. In 1814 the Church again recovered it, but in 1859 it became a part of the new kingdom of Italy. The most thoroughly tempered were stamped with the name of the manufacturer, Andrew Ferrara, and were called Andrew Ferraras.

with the name of the manufacturer, andread a ferrara, and were called Andrew Ferraras.

Ferrarese', a. Pertaining to Perrara, in Italy.

Ferrarese', n. sing. and pl. An inhabitant of Ferrara, the whole body of its inhabitants.

Ferra'ri, Lupovico, an Italian mathematician, B. 1522

et Bolorus, where he became the ferrary. He was a publication of the property of th

at Bologna, where he became professor. He was a pupil of Cardan, and the discoverer of the method of resolving bi-quadratic equations. D. 1506.
FORTELEA, (fer-rira,) ANTONIO, a poet ranked by the Portuguese as one of their classic authors, was B. at Lishou, 1528. He carried to perfection the elegiac and epistolary style, and his lnex de Castro is the second registrolary style, and his lnex de Castro is the second registrolary style.

epistolary style, and his Inzz de Castro is the second reg-ular tragedy that appeared after the revival of letters in Europe. D. 1560. Fer Treuz; Lat. ferreuz, from ferrum, iron.] Made of, or pertaining to, iron; like iron. Ferre'raas, Juan Dz, a Spanish historian, E. 1652. He wrote works on philosophy, theology, &c., but his chief performance is his History of Spain, 10 vols. 4to. He also aided the compilation of the great Spanish Dic-tionary. D. 1735.

still cherish the remembrance of their benefactor, and admirers of Voltaire still make pilgrimages to Ferney, although the castle in which he lived has undergone so many alterations that it contains but few relics of him. Ferm Leaf, in Kentucky, a P. O. of Mason co.

Ferm's leaf, in Kentucky, a P. O. of Mason co.

Ferm's likele, n. A term applied to the goat-sucker.

Ferm's likele, n. A term applied, in some parts of England, to a freckle on the skin, appearing like the smaller; its usual length being about 13 inches, exclusive of the tail, which is about five. It has a very shart nessenbles the Polecat, but is rather smaller, its usual length being about 13 inches, exclusive of the tail, which is about five. It has a very shart nessenble the weasel. In its general form it resembles the Polecat, but is rather smaller; its usual length being about 13 inches, exclusive of the tail, which is about five. It has a very shart nessenble the weasel. In its wild state it is a native of Africa. The cold of European winters is so severe for it, that it becomes necessary to kept lin a warm box, with wool or some other swatch is the procious; bloodthirsty; betokening cruelty; as, a fero-cious beast, a ferocious look.

Fero-ciousness, n. Quality of being ferocious; savances is expected.

Fero-ciousness, n. Quality of being ferocious; savances is expected.

Fero-ciousness, n. Quality of being ferocious; savances is expected. to the rabbit; and

Buffon affirms, that whenever a dead rabbit is



upon it in an instant, and bites it Fig. 1001.—FERRET, (Mustela furo.) with great fury; but if it be alive, he seizes it by the throat, and sucks its blood. When sent into the burrows of rabbits, he F. is always muzzled, that he may not kill the rabbits in their holes, but only drive them out to be caught in the nets prepared for them. The F. is tame without attachment; and such is its appetite for blood, that it has been known to attack and even kill children in their cradies. It is of an irascible nature, and when irritated, the odor it emits is very disagreeable, and its bite is not easily cured. The female has two broods in the year, each consisting of from six to nine. She not unfrequently devours her young as soon as they are born. Few'ret, n. [Fr. feuret, coarse silk.] A sort of narrow tape made of coarse spun silk.—The iron used by glass-blowers to test the liquefied matter, to see whether it is yet fit for working, and to make the circular protuberance at the mouth of bottles.—c. a. To drive out of lurking-places; to find out by patient and laborious effort; as, to ferret out a crime. In the latter sense, it is most frequently used with out.

Ferret Cols, (ferra.) a pass of the Pennine Alpe, in Switzerland, connecting Orsières, in the latter country, with Cormayeur, in Piedmont. Height 7,646 feet above see-level.

sea-level.

One who searches for, or hunts patiently,

\*\*Per\*reter, n. One who searches for, or hunts patiently, a person or thing.

\*\*Per\*ret\*to, n. [1t. dim. of ferro, from Lat. ferrum, iron.]

A material used in glass-coloring, composed of copper and white vitriol.

and white vitriol.

For riage, n. [See Ferry.] The fare to be paid for conveyance in a boat, over a river, strait, or other water.

For rie, a. [Fr. ferrique; Lat. ferrum, iron.] Pertaining to, or extracted from, iron; as, ferric acid.

Fer rie Acid, n. [Lat. ferrum, iron.] (Chem.) An unstable teroxide of iron known only in combination with bases as ferrates. If one part of sesquioxide of iron and 4 of dry nitre be fused together for an hour in a covered crucible, a brown mass is obtained, giving a violet-colored solution, containing ferrate of potash. Solutions of the ferrates of the earths may be formed by mixing ferrate of potash with solutions of their salts.

F. A. has never been obtained in a free state. Form.

F. A. has never been obtained in a free state. Form. FeH O<sub>4</sub>.

Ferricya'mogen, or Ferricyanogen, n. [Lat. ferrum, fron, and cyanogen] (Chem.) A radical derived from cyanogen, but which has never been isolated. It gives rise to salts known as ferricyanides, a good example of whick is the ferricyanide of potassium, or red prussiate of potash of commerce. This salt is formed by passing chloride through a solution of ferrocyanide of potassium. The liquid assumes a brown color, and, when evaporated, deposits beautiful red rhombic crystals. Ferricyanide of potassium is prepared in large quantities for the use of the calico-printer. The splendid dye known as Turnbull's blue is formed by mixing it with a solution of protosulphate of from. Form. for F. C. N. 18 Fe.

Ferricer, Janz, a Scottish novelist, z. at Edinburgh, 1132. She was an intimate friend of Sir Walter Scott, and of some of the most eminent literation for day. She wrote three novels, which are still popular, viz.: Marriage; The Inheritance; and Destiny, or the Chief's Daughter. They are vigorous and lively pictures of Scottish life and character. D. 1854.

Ferrifferous, a. [Fr. ferrifere, from Lat. ferrum, iron, and ferre, to bear.] Producing or yielding iron. Ferris, in Michigan, a post-township of Montcalm to, about 50 m. W. of Saginaw City.

Ferres. See Canari Islands. FeH.O4. \*\*Cerricya'nogen, or Ferricyanogen, s. (Chem.) A radio

pelier.

Fer'ro. See CANABI ISLANDS.
Ferrocal'cite, n. (Min.) Calcite containing carbonate of iron.

ate of iron.

Ferroco'baltite, n. (Min.) Cobaltite (or Cobaltine, q. v.) containing iron.

Ferrocy'anate, n. [Lat. ferrum, iron, and Gr. kinns, n dark-blue substance.] (Chem.) Same as Ferrocyanite, q. v.

Ferrocy'anide, n. (Chem.) See Ferrocyanogen.

Digitized by GOGIC

For rocyan'ogen, n. [Lat. ferrum, iron, and cyanogen.] A radical derived from cyanogen that has never ben is olated. It gives rise to salts known as ferrory-anides, of which the ferrocyanide of potassism, or yellow prussite of potash, is an example. This salt is manufactured on a very large scale for the use of colormakers and calico-printers, by heating dried blood, bones, parings of hides, and other nitrogenous aninal matter, with an equal weight of carbonate of potash, and ½ of iron-filings. The fused mass is heated with water in open boilers, when a yellow solution is obtained, which, after evaporation, yields truncated pyramidal crystals offerrocyanide of potassium, containing 3 equivalents of water. It is very soluble in water, but insoluble in alcohol. It contains the elements of prussic acid when in solution, but is not poisonous. Distilled with sulphuric acid it yields prussic acid in large quantities. It is much used in calico-printing and color-making for the production of a fine blue color known as Prussian blue (q. v.), with the persalts of iron. When protosalts of iron are used, a dirty, greenish-white precipitate falls down, which constitutes one of the distinguishing tests between the per- and proto-salts of iron. It is also used in the manufacture of cyanide of potassium. With the salts of copper it forms a characteristic purple-brown precipitate, and is used as a test for salts of that metal. With salts of cobalt it gives a yellowish-green precipitate.

with saits of cobait it gives a yellowish-green precipitate.

Fer'rol, a fortified scaport-town of Spain, on the N.W. coast of Galicia, prov. of Corunna, and one of the 3 naval deps. of the kingdom. It is situated on the N. arm of the Bay of Betanzos, 12 m. N.E. of the city of Corunna, and 25 S.W. of Cape Ortegal; Lat 43° 29' 30" N., Lon. 8° 15' W. The harbor of F. is one of the best in Europe in point of depth, capacity, and safety, and is approached by a narrow channel only admitting one vessel at a time, and which is commanded by strong forts. This port being intended for the royal navy, general commerce and all foreign merchant-ships are excluded. It was captured by Marshal Soult in 1809. Pop. 19.144.

Fer'romount, in New Jersey, a village of Morris co., about 10 m. W.N.W. of Morristown.

Ferrotit'anite, n. (Min.) Same as Schorlornite, q. v.

Ferruginated, a. [See Inval.] Having the properties of oxide of iron.

erties of oxide of iron.

Ferrugineous, or Ferruginous, a. [Fr. ferrugineux; Lat. ferrugineux, from ferrugo, oxide of iron.]
Of the color of rust, or oxide of iron.

Partaking of iron; containing particles of iron.

Ferrugine, a. [Lat., iron rust, from ferrum, iron.] A disease in certain plants, commonly called Rusr, q. v.

Ferrugine, (ferric, or ferrowl.) n. [Fr. virole, from Lat. virola, a little bracelet; dim. of viriz, an ornament for the arm.] A ring of metal put around the end of a cane, staff, or other thing, to strengthen it.

Ferruminate, v.a. [Lat. ferruminare, from ferrumen, cement for brazing.] To braze, solder, or unite metals.

Ferruminate, n.a. [See Supra.] The brazing, or soldering of metals.

cement for brazing.] To braze, solder, or unite metals.

Ferrus man't 60ms, n. [See Supra.] The brazing, or soldering of metals.

Ferry, n. [A.S. far, faru, a passage, from faran, to pass.] A liberty to have a boat upon a river for the transportation of men, horses, and carriages with their contents, for a reasonable bill.—Also the place across which such vessel passes.—In the U. States, ferries are established by legislative authority, exercised either directly or by a delegation of powers to courts, commissioners, or municipalities. Without such authority no one, though he may be the owner of both banks of the river, has a right to keep a public ferry. The owners of ferries are common carriers, and liable, as such, for the carriage of the goods and persons that they receive on their boats. They may determine when and how often, and upon what terms, their boats shall cross the river, and what they will transport; but all these things they must do by general rules, without favoritism or arbitrary exception.

—The term is also commonly applied to the vessel for ferrying, or ferry-boat.

Fer'ry, r. a. [A.S. ferian, to cause to pass, from faran, to go.] To convey, or carry over a river, strait, or other water, in a boat.

— n. To pass over a stream, or strait, in a boat.

valer in a boat.

v. n. To pass over a stream, or strait, in a boat.

Fer'ry, in lowa, a post office of Mahaska co.

Fer'ry-boat, n. A boat for conveying passengers acros

FEST

origin of the drug.

Ferula'ceous, a. [Lat. ferulacrus, from ferula, the giant fenuel.] Having a stalk like a reed, or resembling the giant fennel; as, the ferulaceous plants.

Ferula, a. [Lat. ferula, from fero I, a trike.] A little flat piece of wood for punishing children at school, by striking them on the palm of the hand. It is often applied, also, to a species of came used for the same purpose of castigation.—In the time of the Eastern empire, the ferula was the name given to the emperor's sceptre. It consisted of a long stem with a flat head, and is often seen depicted on old medals.

Ferule, v. a. To punish with a ferule.

Ferule, v. a. To punish with a ferule.

Ferule, v. a. To punish with a ferule.

Ferule, v. a. To find; ardor; eagerness; plous ardor or zeal; warmth of devotion; as, when you pray, let it be with ferency.

Ferule, a. [Lat. fervent, from fervere, to be aglow.] Glowing; boiling; burning; hot; as, the fervent summer.

Warm in feeling; hot in temper; ardent; excited; animated; glowing with religious zeal; flaming with devotion; as, a fervent desire to do good, a fervent

Fer'vently, adv. Ardently; zealously; eagerly; ve ventness, s. The quality of being zealous

vehement.

vehement.

\*\*Fervee'cent, a. [Lat. fervescerr, incept. from fervere, to boil, to glow.] lieginning to grow hot.

\*\*Fer'vid, a. [Lat. fervidus, hot, from fervere.] Hot; burning; boiling; as, the fervid rays of the sun.

--Vehement; eager; zealous; as, you have my fervid wishes.

wishes.
Fer'vidly, adv. With glowing warmth; very hotly.
Fer'vidness, n. Glowing heat; ardor of mind; war

Fer'vidiness, n. Glowing heat; ardor of mind; warm zeal.

Fer'vor, n. [Lat., from ferrere.] Heat; warmth; as, the ferror of the day.—Heat of mind; zeal; ardor of piety; as, the ferror of his devotion.

Fess, (fd'sa.) a town of Persia, prov. Farsistan, 78 m. 8.E. of Shiraz. Manaf. Silks, cottons, woollens. Pop. estim. at 18,600.

Fes'ceenmine Verses, n.pl. (Anc. Potry.) A kind of rude licentions pockry, common in ancient Italy, and said to have derived their name from Fescennium, an Etrurian city where they had their origin. They were in the form of dialogues between two persons, who satirized and ridiculed each other's follies and vices. They were sung on feative occasions, as the harvesthome and weddings. The emperor Augustus prohibited them, as tending to corrupt the public morals. They are chiefly remarkable as giving rise to Satire, q. v. Fesch, (fzsh.) JOSEPH. Cardinal-Archbishop of Lyons, and brother of Letitia Ramolino, mother of Napoleon I., B. at Ajaccio, Corsica, 1764. He was educated in France for the Church; in 1700 he was appointed by his nephew, Gen. Bonaparte, commissary-general of the army of Italy, in which capacity he realized a princely fortune. He afterwards resumed his clerical studies, and adopting the profession, was, in 1802, consecrated archbishop of Lyons. In the year afterwards, F. received a cardinal's hat, and was sent to Rome as French ambassador. In 1804 he accompanied Pius VII. to Paris, to assist at the emperor's coronation, and in the following year was created for and Almoner of France. A spresident of the Council of Paris, he energetically opposed his nephew on many occasions, and especially espoused the cause of the unfortunate pope. He finally fell into diagrace

created Grand Almoner of France. As president of the Council of Paris, he energetically opposed his nephew on many occasions, and especially esponsed the cause of the unfortunate pope. He finally fell into diagrace with the emperor, and retired to Rome, where he passed the remainder of his life in dignified case and affluence, possessing the finest library and picture-gallery that even Rome could boast of. D. 1838.

Fes'cue, R. [Fr. fetu; O. F. festu, from Lat. festuca, a grass.] A small stick, stalk, wire, or the like, used to point out the letters to children learning to read.—a. a. To point out the letters with a fescue.

Fes'cue-grass, n. [Bd.) See Festuca.

Fes'cue-grass, n. [Rd.) See Festuca.

Fes'cue-grass, n. [Fr. fascoles: Lat. phaseolus; Gr. phasiolus, the kidney-bean.] A kind of base grain.

Fess, or Fesse, n. [N. Fr fasca: Lat. fascia, a band.] (Her.) One of the memorable ordinances, consisting of lines drawn horizontally across the shield, and containing the third part of it, between the honor point and the nombril. It is supposed to represent the waist-belt or girdle of honor, which was one of the insignia of knighthood.—Ivr Fess. A shield, or charge in a shield, is said to be party per fess, when it is horizontally divided through the middle, or, as the French say, simply coupt.— Fessions is said of a charge placed in fess; that is to say, horizontally across the shield.

Fess'-point, n. (Her.) The exact centre of an excutcheon.

Fes'fall, a. [Lat. festalis, from festum, a feast. See Fer'ry-boat, n. A boat for conveying passengers across a ferry.

Fer'ry-land, a town on the S.E. coast of Newfoundland, about 33 m. S.W. of St. John's.

Fer'ry-man, n. One who, for hire, transports goods or passengers across a stream or strait.

Ferry Point, in Culifornia, a village of Del Norte co, about 65 m. E. of Crescent City.

Fer'ry-burg, in Michigan, a post-village of Ottawa co, on Grand River, about 2 m. from Lake Michigan.

co, on Grand River, about 2 m. from Lake Michigan.

Fer'ry-ville, in Misconsin, a P. O. of Crawford co.

Fertile, (fer'ili.) a. [Fr. fertile; Lat. fertilia, from ferre, to produce.] Fruitful; productive: inventive; as, a fertile mind, a country fertile in mineral, a fertile flock.

(Bid.) Capalle of producing fruit. Stamens are also said to be fartile when their anthers contain good polen.—A fertile floor is one having pistils.

Fer'tileiy, adv. In a fertile manner.

Fer'tileiy, adv. In a fertile from mineral, refertile inventing in abundance; abundant resources; fertile inventing in abundance; a

to become corrupt or purulent: said of wounds or sores. To become malignant; as, the quarrel festers in his

breast.

—e. a. To cause to grow virulent.

—s. An inflammatory tumor discharging matter.

Fes'terment, s. The condition of rankling, as of

the passions.

The discharge of matter, as of sores or wounds.

Festime, n. (Logic.) The third term of the second figure of the syllogism, the first of which is a universal negative proposition, the second a particular affirmative, and the third a particular negative; as,

"Fas. No bad man can be happy;
Ti. Some rich men are bad men; erge,
No. Some rich men are not happy."—Oraig.

Fen'tival. n. [Lat. feativus, joyous, gay; from festum, a feast.] Time of feasting; an anniversary day of civil or religious joy. — See Frant.

—a. Pertaining to a feast; joyous; mirthful.
Fen'tive, a. Gay; mirthful; joyous.
Fentively, adv. In a feative manner.
Fentiv'ity, n. [Lat. feativitas, a holiday.] Joyfulness; gayety; social joy, or exhilaration of spirits at an entertainment; as, the feativities of this holiday time.

—A time of rejoicing; a feative celebration.
Fen'tivous, a. Pertaining to a feast; joyous; mirthful.
Fentoon', n. [Fr. featon, from Lat. featum, a feast.] Something in imitation of the garland or wreath much used by the Italians on the church-doors, at the celebration of their feasts; a wreath hanging in a dependent curve.



Fig. 1002. — PERTOON. m St. Mark's Library, Venice.)

(From 8t. Mark's Library, Vesice.)

(Arch. & Sculp.) An ornament composed of flowers, fruits, and leaves interwoven or twisted together, suspended at each end, and falling down in the form of a curve or arch.

-v. a. To form into, or deck with garlands, thickest at the middle and suspended by the two extremes.

Festoomed', p. a. Adorned with festoons.

Festu'ea, n. (Bot.) The Fescue, a genus of plants, order Graminacce, having in some species a loose, in some a contracted panicle; the spikelets many-flowered, with two unequal glumes, which they much exceed in length; each floret having two lanceolate palee, the outer palee each floret having two lanceolate palee, the outer palee two unequal glumes, which they much exceed in length; each floret having two lanceolate palese, the outer palese rounded at the back, and acuminate or awned at the summit; the stigmas growing from the apex of the germen. The species are numerous, and are very widely diffused over the world, both in the northern and southern hemispheres. Among them are many of the most valuable pasture and fodder grasses. None are more valuable than some of the British species. — Meadow Fescuse (F. pratessis), a species with spreading panicle and linear spikelets, from two to three feet high, introduced in fields and pastures, is perhapse excelled by no meadow or pasture grass whatever. It is suitable both for alternate husbandry and for permanent pasture.

for alternate husbandry and for permanent pasture.

es'tus, Porcus, pro-consul and governor of Judge, before whom St. Paul was accused by the Jews; but the fore whom St. Paul was accused by the Jews; but the apostle appealing to the emperor, Festus sent him to Rome. — Also, a celebrated Latin grammarian, whose age is not accurately ascertained; but he is believed to have lived in the 3d century. He compiled some voluminous works on his favorite science, and is classed by Scaliger among the best or most useful etymologists for understanding the language of ancient Rome. Porcius Festus lived in the 1st Century, A. P. Fettal, a. [From Freus, q. v.] Belonging to a festus. Fetantion, m. The formation of a festus. Fetch, [cch.] v. a. [A. B. fecan, g-fecans, Fris. faka, to prepare; Icel. fake, haste; Dan. fage, quick, fieet.] To got and bring, or simply to bring; to bring or draw; to get; as, to fetch a book.

"And with a corded ladder fatch ber down." — Shaka.

In strictness, the term fetch expresses the coving to a

(In strictness, the term frich expresses the going to a place for the purpose of bringing something thence; but the distinction is often colloquially lost sight of, and

fetch and bring are thus used synonymously.)

To obtain as its price: to sell for; as, the goods fetched a handsome proft. — To make: to perform; to do; to accomplish; as, she fetched a deep sigh, to fetch one a blow in the face, to fetch a turn in a cable.

The fox fetched a hundred leaps at a cluster of grapes." I Bairs.

To reach: to arrive at; to come to; to attain; -- sometimes before up.

Says the hare, I can fetch up the tortoise when I please," L' Estra -To bring back or recall, as to consciousness; as, to fetch

-To pring pack or recall, as to consciousness; as, to frich a person out of a swoon.
-To reduce; to throw; as, to be fetched down by a push. To fetch a pump. (Naut.) To pour water into in order to make it suck. — To frich way. (Naut.) To be crankly, or inclined to be hove from one side to the other;—said of a ship.

of a sing.

-e. n. To move or turn; to rescue.

-e. n. To move or turn; to rescue.

to windward.

-n. [A. S facen, facen, fraud, guile; Ger. fazen; Icel.

fyz. cunning. See Fox.] A stratagem by which anything is indirectly performed, or by which one thing

"The very fetch and ghost of Mrs. Gamp, b

Fetch'er, n. One who fetches or brings.
Fête, (fdt) n. [Fr. See Frast.] A festival; a celebration; a merrymaking; a festivity.
Fête, v. a. To entertain; to feast; to give a festival in

bonor of; as, to file royalty.

Ste-champetre, (fdi-shampd'tr.) n. [Fr.] A festival held in the open air; an al fresco entertainment; a

Peth'ard, a town of Ireland, co. Tipperary, 8 m. 8.E. of Cashel; pop. 4,306.

Pe'tieh, Pe'tinh, n. [Fr. fitiche, from Lat. factitius. An object of idol-worship among certain of the African tribes

negro tribes.

Fetichism, Feticism, (fit'i-shism,) n. [Fr. feti-chisms,] The worshipping of a fetich. The word fetich is said to be derived from the Portuguese word fetiso, bewitched, or possessed by fairies, and was applied by them

to the object worshipped by the ne-gross of Af-rica. Hence the term has come to be me w ... serally re-ved, and is generally re-ceived, and is applied to anything in nature or art to which a magical powas stones, carved images, &c. Fet-ichism is the



FRICHES AND AMULETS.

ages, 2c. Fetichism is the FETICHES AND ANULETS.

worship of
material substances, and prevails very extensively among barbarous nations, especially those of the negro race. Among them, tribes, families, and individuals have their respective fetiches; which are often objects casually selected, as atoues, wespons, vessels, plants, &c., and the rade worshipper does not hesitate to chastise, or even throw away or destroy his fetich, if it does not seem to gratify his desires. "To transfer," says Mr. Grote, "to inanimate objects the sensitive as well as the willing and designing attributes of human beings, is among the early and wide-spread instincts of mankind, and one of the primitive forms of religion; and although the enfargement of reason and experience gradually displaces this elementary fetichism, and banishes it from the regions of reality into those of conventional fictions, yet the force of momentary passion will often suffice to supersede the acquired habit, and even an intelligent man may be impelled, in a moment of agonizing pain, to kick for beat the lifeless object from which he has suffered."

History of Greece, vol. v.

History of Greece, vol. v.
Fe'tieide, n. [From fastus, and Lat. codere, to kill.]
(Med.) The act or process of killing the feetus in the

vone.
(Law.) The act of causing abortion.

Fe'tid, a. [Lat. fastidus, from fateo, to stink.] Having a strong or rancid scent; possessing noxious or offensive smell; stinking; as, a fatid breath.

"Cairo's flith and fatid fields."—Thomson.

Fetiduces, s. Quality of being fetid, or of smelling offensively; fetor; putrescent stench.
Fetiforous, a. [See Favus.] Bringing forth young, as

animals. Fe'tish, m. Same as FETICH, q. v. Fe'tleck, m. [From feet and lock.] The tuft of hair that grows behind on a horse's foot; also, the joint on which such hair grows: the part of a leg where a tuft of hair grows behind on horses.

d steeds fret fellock deep in gore." - She

"Their wounded steeds fret festock deep in gore." — Sheks.

Feter, n. [Lat. festor.] Stench; stink; an offensive smell; a putrescent odor; fetidness.

(Med.) The term is generally confined to the offensive gases given off from decomposition, the result of inflammation, as in cases of sloughing or mortification after wounds and injuries; also from the decay of the teeth, or a depraved state of the stomach, tainting the breath, when the person is said to have a fetid breath; and also from the exhalations given off from the mouth and body in typhus or low putrid fever; and finally, in cases of salivation, where the breath becomes highly disagreeable from the absorption of the mercury.

Fett'bel, n. (Min.) Same as Chionopai, q. v.

Anything that confines or restrains from motion or ac

tion; as, the fetters of love.
"Passions too Seroe to be in fetters bound." — Pope

a. To put fetters upon; to shackle or confine, as the et with a chain; to bind.

"My beels are fettered, but my fist is free." — Milit

To confine, as action; to restrain motion; to impose checks or restraints upon; as, fettered by obligations. "My conscience! thou art fetter'd more than my shanks or wrists."

Fet'terless, a. Unshackled; free from fetters.
Fet'termam, in W. Virginia, a post-village of Taylor
∞, abt. 100 m. S.E. of Wheeling.

seems intended and another is done; as, "It is a fetch of wit." (Shaks.) — A wraith; the apparition of a living person.

Fet'tle, v. a. [From O. Fr. failure.] To repair; to manage; to set to rights; to put in order. (In extensive provincial use in England.)

FEUD

" Pretend to fettle about the room

v. n. To do job-work; to manage small matters.

Fet'ile, n. Act of fettling or putting to rights; a placing in order. (Prov. English.)

Fett'steim, n. [Ger, fat-stone.] (Min.) Same as Nz-

in order. (Prov. English.)
Fettastein, n. [Ger., fat-stone.] (Min.) Same as NaPRELITS, q. v.
Fe'tus, n.; pl. Fruuses. [Lat. fatus, from the root feo,
implying fruitfulness, increase.] The young of an animai in the womb after being perfectly formed.
Fet'wash, n. [Ar.] A decision rendered in writing by
a Turkish nufti.
Feuch'tersle'bem, Eddard, Bardy Von, an eminent
German physician and lyrical writer, R. at Vienna, 1806.
He graduated in medicine at the university of that city
in 1838, and in 1845 was appointed dean of the Medical
Faculty. His principal works are, Lehrbuch der Urstlichen Seelenkunde (1845), which has been translated
into English, and Zur Dittetik der Seele (1838), which
has ron through not less than 28 editions. F. wrote
many "Burschenlieder," (student-songs,) one of which,
Es ist bestimmt in Gottes Rath, is very popular in Germany. His complete works, in 7 vols., were published
by Hebbel, Vienna, 1851-3. D. 1849.
Feund, Gidd, n. [A. S. fachthe, vengeance; Ger. fehde;
Dan. fejde; leel. fued, amothered anger. Root Sansk,
pid, to pain.] A deadly quarrel; hatted or contention,
to be terminated only by death; a contention, broil,
contest, strife, or quarrel; particularly families or parties in a state.

"In former ages it was a policy of France to raise intestine
feeds and discords in Great Britain."—Addison.

in order ages it was a policy of France to raise intesting and discords in Great Britain."— Addison.

A combination of persons, connected by ties of blood or descent in common, to revenue any affront or injury done or offered to one of their race, on the offender and all his kindred: a vendetta.

"As ferce and lasting as a Highland fend." Marguis of Montroes.

Feud, n. [From L. Lat. fendum; It. fendo, for; Fr.
fef.] (Law.) Same as FEE, q. v. See, also, FEUDAI

System.
Feudal, (fü'dal,) a. [O. Fr.] Pertaining to feuda, fiefa, or fees; as, held by feudal tenure. — Consisting of feuds or fiefs; embracing tenure by military services; as, the feudal system, the feudal system.
Feu'dalism, n. The feudal system.
Feu'dalist, n. One versed in feudal laws; one who advocates the feudal system.
Feudality, n. [Fr. fedalith] State or quality of

advocates the found system.

Foundal'ity, n. [Fr. fedalité.] State or quality of being feudal; feudal form or constitution.

Foundalization, n. Act of reducing to feudal tenure.

Foundalize, v. a. To reduce to a feudal state or tenure.

Foundaliy, adv. In a feudal manner; after the feudal

laws.

Poudal System, n. (Hist.) That constitutional system which was introduced into Europe by the northern nations after the fall of the Roman power, and which has left important traces of its existence in most European countries. The constitution of feuds had its origin in the military policy of the Goths, Huus, Vandals, and other northern nations, who overran Europe at the declension of the Roman Empire. The term feud is of very doubtful derivation, but most probably it is formed from the Tentonic fee or feh, wages or pay for service, and oth, or od, property or possession; a feud, then, being the property or possession given as wages for service. In order to secure their newly acquired possessions, and at the same time to reward their deserving followers, the conquering generals were wont to allot laws service. In order to secure their newly acquired possessions, and at the same time to reward their deserving
followers, the conquering generals were wont to allot
large districts, or parcels of land, to the superior officers
of the army, and these were by them again dealt out in
smaller allotments or parcels, to the inferior officers
and soldiers. The condition annexed to these holdings
was that the possessor should do service faithfully, both
at home and in the wars, to him by whom they were
given; for which purpose he took the oath of fealty
(juramentum fidelitatis), and in case of the breach of
this condition and oath, by not performing the stipulands were again to revert to him who granted them.
The ownership of the land, therefore, properly remained
in the hands of the superior, and probably at first was
resumable by him at pleasure, or at least on the death
of the holder; but in most countries, lands soon came
to assume an hereditary character, the rights of a superior, on the death of a vassal, being confined to the exaction of certain dues from his son and successor, as a
consideration for confirming to him the feud which his
father had held. Where the land descended to a female,
the superior was entitled to control her marriage, for
the purpose of procuring a trustworthy vassal, a privinger which, like the other, was afterward converted into
a pecuniary payment. According to this system, every
receiver of land, or feudatory, was bound, when called
upon, to serve his immediate lord or superior, and to do
all in his power to defend him. Such lord or superior was
likewise subordinate to, and under the command of, a upon, to serve his immediate ford or superior, and to do all in his power to defend him. Such lord or superior was all kewise subordinate to, and under the command of, a higher superior or lord; and so on upwards to the prince or general hinself. The several lords were also reciprocally bound in their respective gradations to protect the possessions they had given. Thus the connection between lord and vassal was made to wear all the appearance of a mutual interchange of benefits—of bounty and protection on the one hand, and of gratitude and service on the other. In this way the foudal connection was established, and an army was always at command, ready to fight in defence of the whole or of any part of the newly acquired territory. The wisdom of these measures became evident to the other princes of Europe, and many of them who were independent

adopted this system as a means of strengthening their power, parcelling out their royal territories, or persuading their subjects to surrender up and retake their own landed property under the like feudal obligations of military feality. Thus the feudal constitution, or doctrine of tenure, extended itself over all the Western world; and the feudal laws drove out the Roman, which had hitherto universally prevailed. This system was adopted in most countries of Europe from the 9th to the end of the 13th cent; but it differed in various particulars in the different countries. Though there can be no doubt that feudal principles prevailed to a considerable extent in the polity of the Saxons in England, yet it was only when that country was conquered by the Normans that it was regularly established. In some respects, however, the system of feudalism established in England differed from that of France, from which it was taken. One of these was that the king was the universal lord and original proprietor of all the lands in his kingdom, and that no man could possess, or hold, any part of it, but what was mediately or immediately derived from him, to be held mediately or immediately derived from him, to be held mediately or immediately derived from him, to be held mediately or immediately to him; and thus the inferior vassals were under two oaths—the one of fealty to the king, the other of fealty to their immediate superior. It has been remarked, however, that when the two interests came into collision, the vassal rarely failed to obey his lord rather than his king. A country, under the feudal law, was divided into *knights' fees*, the tenant of each of which appears to have been obliged to keep the field at his own expense for forty days, whenever his lord chose to call upon him. For smaller portions of land, smaller periods of services were due. Every great tenant exercised a jurisdiction, civil and criminal, over his immediate tenants, and held courts, and administered the laws within his lordship, like a sovereign pr others, to injure his person or fortune, or to violate the anctity of his roof.

sanctity of his root.

Fou'dary, a. Holding land of a superior, or by feudal
service; a feodary.

Fou'datary, Fou'datory, a. [O. Fr. feudataire;
Sp. feudatairio.] Holding from another on some conditional tenure.

oftional tenure 'feu-de-chied',) s. [Fr., fire of joy.] A bon-fire lighted in public places and in villages to celebrate any important event or feetive season. These feux-de-jour were known among the Romann, as Romulus instituted a species of them, particularly in honor of the building of the city of Rome. The term few-de-join is also often applied to a salute fired on any particular occasion, in celebration of festivals, &c.

Feu-dist, n. A writer on foudal law.

Feu-chach, PAUL JOSEPH ANSLIE, (forer-bak) an em-

Femerbach, Paul Joseph Ansele, (foi'er-bak,) an eminent German writer on criminal law, B. at Frankforton-the-Maine, 1775, who became successively professor at the universities of Giessen, Jena, Kiel, and Landahut. Although he wrote a number of able papers on criminal jurisprudence, his fame did not become established till he produced his Review of the Pandamental Principles and Ideas of Fenal Law. This work, in conjunction with another which appeared shortly afterwards, excrised a great influence on German criminal legislation, and placed F in an eminent position in the eyes of his countrymen. In 1808 he became a privy councillor in Bavaria; in 1817 second president of the court of appeals at Bamberg; and in 1821 first president of appeals at Anspach. To these offices his sphere of action was entirely confined throughout the rest of his life. D. 1833. Femiwratelin, s. [Ger., fire-stone.] (Min.) Same as FLINT, q. e.

Feur erstein, w. [Ger., firestone.] (Ann.) Same as Film, q.e., (fdl'yath.)n. [Fr., from feuille, Lat. folium, a leaf.) A bunch of leaves; foliage.

Fentilant Club, n. (French Hist.) During the Revolution, a club in Paris, first called the club of 1789, that assembled in the old convent of the Feuillants (1791), was named after them. A ministry composed of their leaders assumed power in June, 1792. The Jacobius conspired against them, and the F. C. was closed in July, 1792.

July, 1792.

Feuillantines, n. pl. (Eccl. Hint.) An order of nuns, subject to the rule of the Feuillauts (q.r.), was founded in 1890, and possessed a house in Paris, established in 1820 by Anne of Austria.

Feuillants, (fu-'ydns,) n. pl. (Eccl. Hint.) A reformed branch of the Cistercian order of monks. It was founded by Jean de la Barrière, abbot of the Cistercian monastery of Yeuillants near Toulouse, in 1877, who, being opposed to the great laxity of discipline that then prevailed, introduced a much more austere mode of life He soon found many followers, and they were declared independent by Sixtus V. in 1886. They were afterwards divided, in 1830, into two congregations by Pope Urban VIII., who separated the French from the Italians, and gave them two generals. They practized great austerities, going barefoot, and living only on herba

Fouilleton, (fulr)'ye-lon(g), n. [Fr.] (Lit.) A small leaf; but it is generally applied to that part of a political newspaper which is devoted to news of a non-political character, as criticisms on literature and art, &c., and which is commonly, in French newspapers, to be found at the bottom of the page. The F. is an invention of the Journal des Debats, which, in 1800, introduced the system of giving literary criticisms in this form. In the years immediately preceding the revolution of February, whole romances were spun out in the F., and in particular, the Constitutionsel made large sums from the social romances of Eugene Sue, which it first published in this way. The French system has been imitated in England and Germany, though not to the same extent, and with less marked success. In fact, the F. proper seems only to be in its natural element in France. The language and the character of the people are particularly fitted for imparting that grace, point, neatness, and vivacity, that give a particular charm to the higher productions of this class of literature, and which draw additional power from their many-sidedness and frequent changes.

are particularly fitted for imparting that grace, point, neatness, and vivacity, that give a particular charm to the higher productions of this class of literature, and which draw additional power from their many-sidedness and frequent changes.

Few'ra Bush, in New York, a railroad station of Albany co, about 22 miles N. of Athens.

Fewe'da, in Washington, an island in the Gulf of Georgia, lat. 49° 41' N. Lon. 124° W. It is 32 miles long by about 2 miles wide.

Fe'wer, n. [Fr. flevre; Ger. fleber; Lat. febris, allied to fervere, to be hot, to glow.] (Mod.) A disease affecting the entire system; characterized by an accelerated pulse, with increase of heat, impaired functions, diminished strength, and preternatural thirst. The subject of fever has given rise to endless medical discussions and theories, and the definitions of the disease, given by different writers, are not less varied than numerous. In fevers there is generally great constitutional derangement, unaccompanied by local or perceptible organic disease. Fevers generally begin with languor of body and mind; chilliness amounting to shivering, though the skin often at the same time feel hot; the pulse is quicker than it should be; respiration hurried or labored; pains are complained of in various purts, and especially about the head, back, and loins; the appetite fails off, or there is nausea and vomiting; the mouth is dry; the bowels generally irregular; and the urine small in quantity and deep in color. These, which constitute the first stage of ordinary febrile symptoms, are succeeded by flushings, a quicker pulse, and by mental anxiety and wandering, which, under many aspects and modifications, constitute the second stage. They are succeeded by the third stage, in which the leading appearances are a cleaner tongue, a more natural pulse, a moist skin, calm mind, the urine becoming more copious in quantity, and depositing a sediment as it cools. The symptoms of fever generally undergo an increase every evening, which is called a remittent; fit he fever

verous." — Stat's.
—Tending to produce fever; as, feverous weather.
Fe'ver-root, n. (Bot.) Same as fever-wort.

TRIGETUM.

Fe'versham, in England. See FAVERSHAM.

Fe'vershore, n. (Mcd.) The common name of a species of caries or necrosis.

Fe'ver-weedl, n. (Bot.) A plant of the genus Extrago,

Few, a. [A. S. feawa; Icel. fa; Fr. pru; Lat. paucus.]

Not many; small, or confined in number;—sometimes used with ellipsis of the noun; as, faw know it.—In few, meaning, in few words, is found only in the more ancient poets.

Few meet, or Furmet, n. [Lat fimus, dung; compare Fr. fumier, a dunghill.] The dung of a deer.

Few meess, n. Smallness of number; paucity.

Fess, (properly Fix.) a walled city of Morocco, and, next to the city of Morocco and Mequinex, the principal in that empire, cap. of the prov. as it formerly was of the kingdom of the same name, and residence of a Kaid or

governor. It is singularly and beautifully situated in a funnel-shaped valley, open only to the N. and N.E., the sloping sides of which are covered with fields, gardens, orchards, and orange-groves, 95 m. from the Atlantic, 225 N.E. of Morocco, and 80 m. S.E. of Tangler; Lat. 349 69 3" N., Lon. 59 1' 19" W. F. contains about 100 mosques, the chief of which, called El Carubin, is a fine-structure, and possesses a covered place for women who may choose to participate in public prayers—a circumstance unique in Mohammedan places of worship. Public baths are numerous and good.—Manuf. Morocco leather, woolles fabrics, silks, gauzes, gold and silver stuffs, jewelry, arms, copper goods, &c. Twice a year caravans go from F. across the desert to Timbuctoo. This city has always been considered one of the chief seats of Moslem learning. Old Fez was founded in 793 by Edris II, a descendant of Mohammed, and continued the cap. of an independent kingdom till 1548, when it was, together with its territory, conquered, and annexed to Morocco. F. has always been held so sacred by the Arabs and others, that when the pligrimages to Mecca were interrupted in the 10th cent, the Western Moslems journeyed to this city, as the Eastern did to Mecca; and even now none but the Faithful can enter F. without express permission from the emperor.—Pop. Estim. at 60,000. of which about three-fourths are Moors and Arabs, and the remainder Berbers and other cognate tribes, Jews, and Negroes.

Fez. n. A red, rimless cap, worn by Turks, Egyptians, &c. See Fig. 916.

Fez man, (anc. Phasania Regio, and the country of the Garamantes.) accountry of Central Africa, immediately S. governor. It is singularly and beautifully situated in a funnel-shaped valley, open only to the N. and N.E., the sloping sides of which are covered with fields, gardens, orchards, and orange-groves, 95 m. from the Atlantic, orchards, and orange-groves, 95 m. from the Atlantic, 225 N.E. of Morocco, and 80 m. 8.E. of Tangler; Lat. 340 for the size of a small rabbit, and of a reddish-brown color; its feet are partly webbed; and its tail and the size of a small rabbit, and of a reddish-brown color; its feet are partly webbed; and its tail and the size of a small rabbit, and of a reddish-brown color; its feet are partly webbed; and its tail and the size of a small rabbit, and of a reddish-brown color; its feet are partly webbed; and its tail and the size of a small rabbit, and of a reddish-brown color; its feet are partly webbed; and its tail and the size of a small rabbit, and of a reddish-brown color; its feet are partly webbed; and its tail and the size of a small rabbit, and of a reddish-brown color; its feet are partly webbed; and its tail and the size of a small rabbit, and of a reddish-brown color; its feet are partly webbed; and its tail and the size of a small rabbit, and of a reddish-brown color; its feet are partly webbed; and its tail and the size of a small rabbit, and of a reddish-brown color; its feet are partly webbed; and its tail and the size of a small rabbit, and of a reddish-brown color; its feet are partly webbed; and its tail and the size of a small rabbit, and of a reddish-brown color; its feet are partly webbed; and the size of a small rabbit, and of a reddish-brown color; its feet are partly webbed; and the size of a small rabbit, and of a reddish-brown color; its feet are partly webbed; and the size of a small rabbit, and the size of a sm

FIBB

&c. See Fig. 916.

\*\*PETERM\*\*, (anc. \*Phasania Rogio\*\*, and the country of the Garamaniaes\*\*,) a country of Central Africa, immediately S. of Tripoli, to which pashalic it is trilestary. It is supposed to reach from about 23½° to 31° N. Lat., and from 12° to 16° E. Lon. But its true boundaries are ill defined, and its area is, consequently, uncertain. Fezzan is, as far as has been ascertained, the largest oais, or cultivable tract in the Great African Desert of Sahara by which it is surrounded on three sides, having W. the country of the Tuaricks, and S.E. that of the Tibboos. A great portion of this region consists of an extensive valley bounded by an irregular circle of mountains on all sides ex-

all sides ex-cept the W., where it opens into the desert; but a great part of the mountainous territory to the E., as well as of the desert to the W., are nominally in-cluded within its limits. One of these ranges is called the Black Mountains, and is composed of basalt, nearly black and of a shining or polished ajpearance.— Rivers. No



Fig. 1004. - Mode of travelling in

Fig. 1004. — MODE OF TRAVELLING IN Rivers. No streams (properly so called), but water is plentifully found at a depth of from ten to twelve feet below the surface of the soil. A tew small lakes, incrusted with carbonate of soda, are dotted here and there. — Zoöl. The ostrich and antelope are commonly met with, while to the ordinary domestic animals, camels may be added. — Clim. In summer, the temperature is insupportably hot, and, on the other hand, the cold of winter is sufficiently severe to be acutely felt by the natives. — Prod. Some wheat is raised, but maize and burley form the staple grains. Dates, figs, legumes and pomegranates form an abundant source of food to the denizens. — Manuf. None. F. derives its chief importance as being a depôt for the great caravan traffic between Egypt and Barbary, and the countries to the E. and S. of the Niger. Since 1842, F. has belonged to Turkey. Cap. Mouzouk. Pop. Unknown.

1842, P. has belonged to Turkey. Cup. Mourzouk. Pop. Unknown.
F. G. S., Fellow of the Geological Society.
Flacre, (fé-ak'r.) n. [Fr.] A kind of French hackney-coach,—so called as having been introduced by Savage, who lived about 1650, in the Hotel St. Flacre.
Flars, n. pl. A word of Gothic origin, signifying, in Scotland, the prices of grain for the current year in the different counties, fixed by the sheriffs respectively in the month of February, with the assistance of juries.
Flasco, (fê-arko.) n. [It.] A word borrowed from the Italian theatre. It signifes a failure to please on the part of an actor or singer, and is thus the opposite of furore; although why the word, which simply means a bottle, should come to be thus applied, is more than anybody knows.

somewhat flattened. It has four very strong cut-ting teeth, of which those in the lower jaw are nearly an inch long; the fur on the whole body is soft

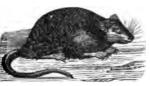


Fig. 1005. - MUSERAT. (Piber zibeth

and glossy,
and beneath is a fine fur or thick down, as in the
beaver. It has also similar instincts and dispositions;

the whole body is soft (Piber sibethicus.) and glossy, and beneath is a fine fur or thick down, as in the beaver. It has also similar instincts and dispositions; living in a social state in the winter, in curiously constructed huts, built near the edge of some lake or river. These huts are about two feet and a half or three feet in diameter, plastered with great neatness in the inside, and covered externally with a kind of basket-work, of rushes, &c., carefully interluced together so as to form a compact and secure guard, impermeable by water. The entrance to them is under water, for the purpose of procuring food, which consists entirely of roots and vegetables. In summer these creatures wander about in pairs, feeding voraciously on herbs and roots: at this season they become extremely fat, and are much sought after, partly for their flesh, but chiefly for their skins, which are valuable. Their door resembles that of musk; and the skin, when taken from the body, still retains the scent. This musky odor is owing to a whitish fluid deposited in certain glands near the origin of the tail. The fur is used in hat-making.

Fibere, (Fibr), n. [Fr., from Lat. fibra.] A filament, or thread, the minute part of either animal or vegetable substances. The scientific use of fibre will be described with regard to the animal kingdom under Muscle and Tissue; and with regard to the vegetable kingdom, under Viortables the hair and wool of quadrupeds, the threads of the cocoons of silk-worms, &c.; the fibres of the leaves of plants and of their innor hark, the elongated cells or hairs connected with the seeds of plants, and the ordinary materials used in making cordage and textile fabrics. Mineral substances are called fibrous in structure, even when it is impossible to detach the apparent fibres. The only fibrous mineral which has been used for textile fabrics is Amianhus, a variety of Aalestus (or i, but hat only to a very limited extent. The animal substances used are divided into two classes—the first including hair and wool o cotton-fibre, like the wool and hair of animals, exist naturally in a separate state, and only require to be collected and cleaned. Among the useful vegetable fibres, those of flax, hemp, and cotton have long held the first place. The principal additions, of late years, have been New Zealand flax, jute, Sunn or Sunn hemp, cair, Pita flax, Abaca or Manilla hemp, Chinese grass, and some others. One of the most important uses of vegetable F. is in the manufacture of paper. Among exogenous plants whose fibres are used for economical purpuses, are species of greatering which produces cetting the Zealand is in the manufacture of paper. Among exogenous plants whose fibres are used for economical purpuses, are a species of gossypium which produces cotton; the Bombaz rillosum, which produces silk-cotton, or vegetable silk; and the Asclepias syriaca, producing the silk-like down of Virginian silk. These three substances are obtained from the fibres of the fruit. Those obtained from the inner bark include the following: several species of Hibiscus, producing Deckanee hemp; the Corchorus olitorius, from which jute is obtained; the Limmu unitativasimum, producing flax; several species of the Crotolaria: together with other leguminous plants, producing Sunn. Jubblipore hemp, &c.; several species of Rehmeris, one of which produces China-grass fibre; the Canabis sativa, producing hemp; and the inner bark and roots of some species of pine and fir. Among the endogenous plants from which fibres are obtained, are the Phormium tenax, yielding New Zealand flax; Agars Americana, yielding Pita flax; some species of Musa, from the leaves of which are obtained Abaca or Manilla hemp, and plantain fibre; several species of Bromelia,

Digitized by GOOGLO

acea, q. v. Fi'bred, a. Having fibres.

Pibred, a. Having fibre.
Pibreles, a. Destitute of fibres.
Pibril, n. [Fr. fibrille; L. Lat. fibrilla, dimin. of fibra, a fibre.] The branch of a fibre; a very stender thread.
Pibrillated, a. Formished with fibres; fringed.
Pibrillation, n. The condition of being reduced to

from which are obtained pine-apple fibre, &c.; the husk of the cocus-out and the fibre of the stem yield coir; and mate, chair-bottoms, and other important articles in general use, are obtained from the fibre yielded by the leaves of the cotton-grass and other species of the order Cypersec.e., q. v.

Pibrela, a. Having fibres.

Pibrila, m. Fr., fibrille: L. Lat. fibrilla, dimin. of fibra, a fibre.] The branch of a fibre: a very slender thread fibral lated, a. Furnished with fibres: fringed.

Fibrilacted, a. Furnished with fibres.

Fibrilacted, a. Furnished with fibres: fringed.

Fibrilacted, a. Furnished with fibres in fibred.

Fibrilacted, a. Furnished with fibres: fringed.

Fibrilacted, a. Furnished with fibres in fibred.

Fibrilacted, a. Furnished with fibres.

Fibrilacted, a. Furn Pibrilla 'tion, n. The condition of being reduced to fibrea.

Pibrillose, a. (Bot.) Covered with appendages like hair, as the under portion of some licens.

Pibrillose, a. [Fr., from Lat. fibra, a fibre.] (Chrm.) A term applied to muscular fibre when cleaused by washing from all adhering impurities; or to the coagulum of the blood when the whole of the serum and coloring-matter are washed out of it. It is whitish, insipid, and inodorous. Its composition is given as follows: carbon 527, hydrogen 69, nitrogen 154, oxygen 235, sulphur 1:3, phosphorus 0:3. In the fresh state F. forms long, white elastic filaments. When dried in racue, or at a gentle heat, it loses about 80 per cent. of water, and becomes translucent and horny. It constitutes a large portion of muscle, arranged in bundles of fibres; whence its name. When gluten is boiled with alcohol, one portion does not dissolve, which has been named vegetable fibrine. Fibrineus, a. Containing fibrine, or relating to ft. Fibrecertillage, n. (Anal.) An organic tissue, paraking of the nature of the fibrous tissue, and of that of cardiage. It is dense, resisting, elastic, firm, supple, and Bexible. It serves chiefly to form sheaths for the silding of tendons; to form a junction between two bones; or as moulds to certain parts, as the alse nead and cyolids.

Fibrecartillage'imous, a. Pertaining to fibrocarti-

eyelids.

Fibrecartilag'inous, a. Pertaining to fibrecarti

lage.

Fibrefer'rite, m. [So called from its fibrous structure.]

(Mis.) A delicately fibrous sulphate of iron, of a silky, pearly lustre, and pale-yellow or nearly white color.

Translucent. Hard. 1:5-2; spec. gr. 1:84. (Comp. Sulphuric acid 29:30, seequioxide of iron 35:15, water 35:55. Occurs at Copiapo, Chili, and in the mines of Paillieres, in dep. Gard, France.

in dep. Gard, France.

Fib'relite, m. [So called from its fibrous structure.]

(M.n.) A silicate of alumina, occurring in fibrous or columnar masses, or in long siender crystals. Lustre, vitreous. Color, from a hair-brown to a pale olive-green. Transparent to translucent. Hard. 6-7; pp. gr. 3-2-3-3. Ossp. Silica 36-8, silumina, 63-2. Identical in composition with cyanite. It is found in gneiss, mica schist, and related metamorphic rocks. F. was much used for stone implements in W. Europe in the "Stone Age."

Fibrouss. a. [Fr. Freez.; L. Lat. fibrous, from fibra, a fibre.] Consisting of fibres; containing fibres.

Fibrousses, m. State of being fibrous.

Fibrius, n.; pl. Fibrule. [Lat., that which classe, — contracted for figibula, from figere, to fasten.] A class; a buckle.

Fibrala, n.; pl. Fir'ule. [Lat, that which clasps,—contracted for figibula, from figere, to fasten.] A clasp; a luckle.

(Anal.) The outer and lesser bone of the leg, much smaller than the tibla.—See Lio.

(Sarg.) A needle for making sutures.

Ficellier, (A-ect'et.) n. [Fr. ficele, pack-thread.] A roller for pack-thread.] A roller for pack-thread.

Fichte, Johann Gottler, (feeth'th.) one of the greatest philosophers of modern times, R. at Rammenau, in Upper Lusatia, 1762. He entered Jena University in 1789, where his study of dogmatic theology led him directly to the higher philosophical speculations. About 1790, while at Zurich, F. first began to study the philosophy of Kant, which took him, as he says, into a new world, and in 1791 he visited Kant at Königsberg. F's first work, the Oritique of all Revication, was published in the following year. In 1794 he became professor of philosophy at the university of Jena, where his influence, especially as a moralist, became immense. Among his friends were Gosthe, Schiller, Novalia, the Schlegela, and many others of the distinguished men of that age. A charge of atheism was brought against F in 1799, in consequence of which he left Jena, and settled in Prusia, where he applied himself to the further development of his philosophy. In 1805 he was appointed professor of philosophy at Erlangen. The French occupation of Berlin drove F for a time to Künigsberg and Copenhagen. On his return to the Prussian capital in 1807, he was intrusted with the task of organizing the new university established by Frederick William. F's voice was heard at this time, like that of a pruphet, in the famous Addresses to the German People, calling them to shake off the foreign yoke, and re-establish the independence of their country. In 1810 he was elected rector of the university, and D. in 1814. — Whatever be the value of F's philosophy, there is no question of the Scholar; The Destination of Man; and The Characteristics of the Present Age, and the Way lowords the Blessed Life.

Fielm'tellit

FICU

Hermiryacca, Tetragoniacea, and Scleranthacca.

Fleoid'esc, n. pl. (Bot.) A synonym for Meskmbertaces.

O.v.

Fletile, (Rc'til.) a. [Lat. Actilis, from Actus, pp. of Angers, to make or form.] Moulded into shape by art; made of clay; manufactured by the potter; as, Ictile vessels.

Fletion. (Rc'tahan) n. [Fr. from Lat. Actio, derived from Actus, pp. of Angers, to form.] The act of imagining, inventing, or feiguing; as, "a mere Action of the mind." (Stillinghet.)—The thing feigned, Invented, or imagined; as, "the Actions of the poets." (Stidney.)—A lie; a fabrication; a fable.—Fletitious literature or writings.—See Novels, and Romancs.

(Law.) A P. of law [Lat. Actio juris] is a supposition of law that a thing is true, without inquiring whether it be so or not, that it may have the effect of truths for as is consistent with equity. The utility of such fictions is merely, by substituting the imaginary for the true state of the case, to pass more rapidly over those parts of the subject which were not disputed, and arrive at the points really at issue. The fictions of the Roman law apparently had their origin in the edictal power, and they were devised for the purpose of providing for cases where there were no legal provisions. Fictions must be framed according to the rules of law, and there ought to be equity and possibility in every legal fiction. "These fictions of law," says Blackstone, "though at first they may startle the student, he will find, upon further consideration, to be highly beneficial and useful; especially as this maxim is ever invariably observed, that no faction shall extend to work an injury; its proper operation being to prevent a mischief, or remedy an incommendence that might result from the general rule of law."

Flectionist, n. One who writes works of fiction.

Flectionist, n. One who writes works of fiction.

rule of law."

Fictionai. a. Same as Fictitious.

Fictionai. a. One who writes works of fiction.

Fictitiouss, a. [L. Lat. fictitius.] Feigned; imaginary; not real; counterfeit; false; not genuine; as, "he needs no trappings of fictious fame."—Dryden.

Fictitioussy, ade. By fiction; falsely; counterfeitly.

Fictioussy, ade. By fiction; falsely; counterfeitly.

Fictious, a. [Fr. ficti; L. Lat. fictious, from fiction; formed.] Feigned; pretended; simulated; as, "fiction formed.] Feigned; pretended; simulated; as, "fiction formed.] Fiction, n. [Lat., from fingers, to form. See Supra.] One who models statues and reliefs in any plastic substance.

Ficus, n. [Lat., a fig.] (Bot.) A genus of plants, order Moraces. They are trees or shrubs, distinguished by having the flowers—male and female mixed—within an almost closed, top-shaped, fischy receptacle, which enlarges to form the fruit, and encloses numerous one-seeded carpels, imbedded in its pulp. There are more than 100 species, some of them very large trees. Almost all belong to tropical and sub-tropical countries, of the vegetation of which they often form a most important feature. The most notable species are the Banyan, v.; the Prepul., v.; the Stoamors, q. v.; and the Common Fig. F. carion, a native of Asia Minor, but now culti-



Fig. 1006. common pig (Ficus carica). , male flower, magnified; b, male flower, natural size; c, fer flower, magnified; d, femule flower, natural size.

vated in all the southern countries of Europe, and in our Southern States. It is seldom to be seen farther N.

than Philadelphia. The fig is a low, decidnous tree or shrub, with large, deeply-lobed leaves, which are rough above, and downy beneath. The branches are clethed with short hairs, and the bark is greenish. The fruit termed Syconus, is produced singly in the axis of the leaves, is pear-shaped, and has a very short stalk; the color in some varieties is bluish-black; in others red, purple, yellow, green, or white. The varieties in cultivation are numerous. In warm climates, the fig yields two crops in the year — one from the older wood (midsummer shoots of the preceding year), and a second from the young wood (spring shoots of the same year); but in colder regions the latter never comes to perfection. Fig-trees are propagated by seed, by suckers, &c.; very frequently by layers or by cuttings. Dried figs form an important article of food in the Levant; in more northern regions they are used for dessert, or for medicinal purposes, being applied to gum-boils and other sores, and also administered in pulmonary and nephritic affections, and to relieve habitual constipation. The pulp contains about 62 per cent. of a kind of sugar-called-'ugar of Figs. Figs are either dried in the sun or in ovens built for the purpose. The best are mostly brought from Smyrna, and are known as Turkey figs, of which those called Eleme or Elemi are most highly esteemed. In the Levant and Portugal, a spirit is distilled from fermented figs. Though subjected to a very high duty ad ralorem, figs are an important item of importation for the year 1868 was \$242,465, for which the Customs received the large sum of \$205,706. — The milky juice of some species is bland and alundant, as of F. Saussweana. In others it sacrid. That of the Common Fig produces a burning sensation on the tongue. That of F. toxicaria, a native of the Malayan Islands, is used for poisoning arrows. Lac is gathered from some species. The leaves of F. politoria are so rough that they are used for polishing wood and ivory in India.

Fids, n. [From Lat faders, fidi, to divide.] (

ported mast cannot be lowered.

Fidal go, n. [Port., contracted from filin de alguiem;
Lat. filius alicujus, son of somebody] The lowest title
of nobility in Portugal, corresponding to the Spanish

Hidalgo. in Alaska, a large harbor on the S. coast, Lat. 60° 50′ N., Lon. 145° 45′ W.
Fid'alle, n. [A.S. Adhele: Ger. Asdel: Icel. Alhia: L. Lat. vidula, a stringed instrument. Compare Lat. Ades, Adis: Gr. sphide, cat-gut.] A stringed instrument of nussic; a Violin, q. v.
To play second Addle. To take a secondary or subordinate part in anything. (Colloq.)
Fid'alle, v. a. To play on a violin or fiddle.
—v. n. To play the fiddle, or violin. — To trifie: to shift the hands often and do nothing, like a fellow playing the fiddle.

the fiddle.

the hands often and do nothing, like a fellow playing the fiddle.

Fiddle-block, n. (Nast.) A block with two sheaves, the smaller being underneath.

Fiddle-dee-dee', saterj. An exclamatory word, signifying, trash, nonsense. (Low.)

Fidddle-dee-ks. n. (Bot.) See Runex.

Fidddle-dee-ks. n. (Bot.) See Runex.

Fidddle-findddle, n. Trifies: trifling talk. (Colloq.)

Fidddle-findddle, n. To talk trifling.

Fidddle-findddle, n. (Nast.) An ornament on the bow of a ship, underneath the bowsprit, — so called from its being curved like the head of a violin.

Fidddle-lipped, Fiddle-shaped, a. (Bot.) Inversely ovate, and deeply hollowed out on both sides.

Fidddle-lipped, Fiddle-shaped, and having one claw much shorter than the other.

Fidddle-sticks, n. The bow and hair which a fiddler draws over the strings of his instrument.

Fidd'dle-string, n. The string of a fiddle fastened at the extremities, and raised towards one end on the bridge.

the extremities, and raised towards one end on the bridge.

Fid'dletown, in Culforsia, the former name of Olera, a post-village of Amador co. The vicinity abounds in gold mines.

Fid'dling, p. a. Playing on a fiddle: trifling.

Fid'dling, p. a. Playing on a fiddle: trifling.

Fid'dling, p. a. Act or manner of playing on the violin; as, "I do not like his Addling."

Fide'd commiss'snum. [Lat., committed to the trust.] (Civil Law.) Something given, usually by will, to one in confidence that he will convey it or dispose of it for the good of another. The obligation was not created by words legally binding, but by words of request: as, role, I wish, pelo, I ask; and hence, originally there was no legal means of enforcing its fulfilment till the time of Angustus, when a practor was appointed whose sole business it was to see to the Addi commissa. The person intrusted with the property was called fiduciarius, and the one to whom it was intended to be conveyed, fider commissarius. Fidei commissa were either particular or universal, the former being the bequest of a particular subject, the latter of the whole estate. They seem to have been introduced in order to evade some legal restriction, and to give the inheritance or a legacy to a person who was either incapacitated from taking it directly, or who could not take as much as the donor wished to give. In some parts of Europe, as in Germany and Holland, the F. C. forms an important feature in the conveyance of heritable property, resembling the kaws of entail, q. v.—A person receiving

"i'de-jus'sion. [Lat. fldrjussio.] (Ciril Law.) A suretyship, or act by which any one, called Fidrjussor, or guarantor, engages himself for the debt of another, promising to pay in case the original debtor should make default. his deeth. Fi'de-jus'sion.

make default.

Fidel'ity, n. [Fr. fdélité; Lat. fdélitas, from fdes, faith or trust, fidere, to confide.] Careful or exact performance of duty or adherence to obligations; firm adherence to a person or party to which one is united, or bound; loyalty. — Veracity; honesty; adherence to one's promise or plades. promise or pledge.

"The thing required in a witness is fidelity." — Hot Adherence to the marriage-contract; as, she proved

Adherence to the marriage-contract; as, she proved her fidel'ity to her marriage-row.
Fidel'ity, in Missouri, a post-office of Jersey co.
Fidel'ity, in Missouri, a post-office of Jasper co., abt.
8 m. 8. of Carthage.
Fidel'ity, in Ohio, a post-office of Miami co.
Fides, [Lat., faith.] (Myth.) The Roman goddess of faith and honesty. Numa was the first who paid her divine honors.

divine honors.

Fidget, (fij'tt) r. n. [Dan fige; Icel. fika, to hasten.

Cf. Fickle.] To move quickly and irregularly; to move
by fits and starts.

Fidget, n. Quick and irregular motion; motion by fits
and starts.—In the pl. this word signifies nervous restlessness, with resultant, frequent change of position.

Fidgetimess, n. State of being restless, or uneasy.

Fidgety, a. Restless; uneasy.

Fidgit, or Fiji, Islands. See FRIME.

Fiducial, a. [L. Lat. fiducials, from fiducia, trust.

The root is found in fides, faith.] Confident; firm; undoubting; as, "fiducial reliance on the promises of God."

Hammond. nises of God.'

Hammond.

—Having the nature of a trust; as, Aducial power.
Fidureially, adv. With confidence.
Fidureiarry, a. [L. Lat. Aduciarius. See Fiducial.]
Confident; steady; undoubting; unwavering; firm; as, a fiduciary assent.

-Holding in trust; held in trust; as, fiduciary powers

 --notang in trut; neld in trust; as, Manciary powers, a fiduciary estate.
 Fie, interj. [A. S. flan, Agan, to hate.] An exclamation denoting contempt or dislike.
 Fief, (fref.) n. [Fr.] The French name for an estate in lands held of a foudal superior: — corresponding to the English fre, also termed feud by writers on feudal jurisprutence. dence.

Field, n. [A. 8. and Ger. feld.] (Agricult.) A portion of land enclosed by a fence, or rendered distinct by some line of separation, so as to adapt it for culture. In former times, and until within the last two centuries, almost all the land cultivated with the plough throughout Europe was unenclosed; and the term field was then applied to the lands under culture by the plough. Subsequently, when farmers enclosed and sub-divided a portion of the lands near the farmyard, these portions were called fields, the more distant portion which remained open being called open field, or common field; while grass lands unenclosed were called commons. In the present improved state of agriculture, every farm mained open being called open peak, or commons. In the present improved state of agriculture, every farm is divided into fields, either simply by lines of demarcation, which are sufficient when no animals are to be grazed on the farm; or by lines of separation which will act as fences, such as walls, hedges, ditches, &c., where cattle are to be grazed.

"In open country, as opposed to house or quarters; as, "at home or in the field"—An open space; free scope; an unrestricted opportunity; a wide expanse; as, "fields of light." (Dryden.)—The ground or blank space on which figures are drawn; as, the field of a picture.—The ground where a battle is fought; the battle or action itself; as, "a field may be dispatched and fought." (Her.) The whole surface or continent of the escutcheon or shield. It is so called, according to some, because it represents the field of battle on which the achievements or charges represented on it are supposed to have

it represents the field of battle on which the achievements or charges represented on it are supposed to have been gained. In blazoning, the tincture or metal of the field must be the first thing mentioned.

A field of ice, a large body of floating ice.—The field of vice, the range of a telescope or microscope.

Field, in South Carolina, a post-office of Pickens co.

Field, beadl, n. (Bot.) A plant of the genus Thymus.

Field'-bed, n. A folding-bed; a bed readily portable and suitable for campaigning.

Field Bend, in Pennsylvania, a post-office of Pike co.

Field'-book, n. A book in which surveyors or civil engineers set down the admeasurements of angles, stations, distances, &c., taken in the field.

engineers set down the admeasurements of angles, stations, distances, &c., taken in the field.

Field'bore, in N. Carolina, a post-office of Greene co.
Field'-colors, n. pl. Small flags to mark out the ground for the maneuvring of a regiment or larger body of troops, on occasions of review or muster; markers.

Field'-duck, n. (Mil.) A day when troops are drawn out for instruction in field-exercises and evolutions.

Field'-duck, n. (Ornith.) The little bustard. See Oris.

Field'-equipage, n. (Mil.) All the apparatus necessary for field-service or active duty.

Field'er, n. That one of the cricket-players who stops the balls.

Field'fare, n. [A. S. faran, to go or wander.] (Zoil.)
The Terdus pilaris, an English bird of the family
Turdides.

Field's lass, n. A species of telescope, used for the purpose of observing the movements of armies and operations during a military campaign. — Also the term applied to the lens usually placed between the object-glass and eye-glass of a microscope. Field'-gun, n. (Mil.) Same as FieldPiece, q. v.

the use of certain lands during his life, on condition of transmitting them unimpaired, in a certain line, after his death.

Field'ing, s. The act of stopping the balls at the game of cricket.

Field'ing, or Field'ing, in P. O of Jersey co. Field'ewerks, n. pl. (Mil.) Temporary works thrown sor, or guarantor, engages himself for the debt of another, promising to pay in case the original debtor should make default.

He was of a noble family, deriving its descent from the line and the promising to pay in case the original debtor should make default.

The common meadow-mouse.—See Field'ewerks, n. pl. (Mil.) Temporary works thrown belieging or defending a place.

Field'ing, Henry, to England, in 1714.

He was of a noble family, deriving its descent from the line and the promise of the plant of the plant in the promise of the plant in the common meadow-mouse.—See Field'ewerks, n. pl. (Mil.) Temporary works thrown up to be eleging or defending a place.

Field'ing, Henry, to England in 1714.

He was of a noble family, deriving its descent from the line and the plant in the promise of the land the plant in the promise of the land the plant in the plant guage, was born in Somersetahire, England, in 1714. He was of a noble family, deriving its descent from the Imperial House of Hapsburg, and was educated at End Coll. and Leyden. On his return to England, F., then

Coll. and Leyden. On his return to England, F. then in his 21st year, began writing for the stage, a pursuit in which he was unsuccessful. He subsequently studied law, but tiring of this, he embarked upon a literary career, and in 1742 produced his Joseph Andrews, a novel full



Fig. 1007. - BIRTH-PLACE OF FIELDING. (Sharpham Hall, Eng.)

(Sharpham Hall, Eng.)
of humor, and admirable delineations of human nature.
In 1749 his genius attained its climax in the wonderful novel of Tom Jones, or the History of a Foundling,—a work which such authorities as Gibbon, Byron, Macaulay, and Thackeray, have prononneed to be the finest prose epic in the English language. This book was, in 1751, followed by Amelia, of which Dr. Johnson said that "It is perhaps the only book of which, being printed off betimes one morning, a new edition was called for before night." The same great moralist also affirmed that he read the work through without stopping. For this novel F. received the then extraordinary remuneration of \$5,000. As regards "Joseph Andrews," F. tells us himself that it was written as an imitation of the style and manner of Cervantes; and it cannot be denied that he has well succeeded in copying the humor, the gravity, and the exquisite satire of his master. Of "Tom Jones," Gibbon declared (in allusion to F's consanguinity to the House of Austria), "that it was a nobler monument of human genius than the Escurial, and would outlive the imperial dynasty of so many hundred generations." Indeed, "taking him for all in all," it may be assumed that F. will continue to be that which Byron calls him, which Byron calls him. -

"The proce Homer of human nature."

"The press Homer of human nature."

F., being obliged to seek a warmer climate owing to filhealth, D. at Lisbon, 1764.

Field'ite, n. (Min.) A variety of Tetrahedrite, q. v.

Field'-marshal, n. (Ger., feld-marshall.) The highest military rank in Germany and in Great Britain. It is occasionally conferred on general officers for distinguished services in the field, and on princes of the blood-royal in virtue of their position and connection with the sovereign. It is rather a title of honor in the British service than one which implies any particular duty to be discharged by the holder, like those of commander-in-chief, general of division, general of brigade, &c. It corresponds to the French title of Marchal de France.

Field'-maice, n. pl. (Zozi) Arvicola, a genus of the family Maride, characterized by small size, soles naked anteriorly, tail rather short, cylindrical, and hairy. There are in the U. States more than 20 species, the most common of which are the Red-backed Mouse of the U. States, the Meadow-Mouse of the N. and Middle States, the Gray Mouse and the Upland Mouse of the E., and the California Arvicola.

States, the Gray Mouse and the Upland Mouse of the E., and the California Arvicola.

Field'-mint, n. (Bot.) See Mentha.

Field'-officer, n. (Bit.) An army officer above the rank of captain and below that of general.

Field of Mars. (Hist.) See Champ de Mars.

Field of the Cloth of Gold. (Hist.) Henry VIII. of England, and Francis L of France, held interviews between Guisnes and Ardres, near Calais, June 7-24, 1520. Such was the magnificence displayed that the place of the meeting was called the Field of the Cloth of Gold.

of Goa.

Field'plece, n. (Mil.) A cannon of light calibre, capable of being transported from place to place, according to the movements of an army on service, for use in a

"The pasha planted his field pieces upon the hills."-

"The pasha planted his field-pieces upon the hills."—Knolles.
Field'-preacher. n. An itinerant preacher who goes about preaching in the open air, in a field, &c.
Field'-preaching, n. Preaching practised in fields, or in the open air.
Fieldd'-borough, in D-laware, a P. O. of Newcastle co.
Fieldd'-spaniel, n. (Zoil.) This variety of dogs has very long hair in some parts; it is generally white, with large, brown, liver-colored, or black spots, of irregular size and shape; the nose is sometimes cleft, and the ears are very long and pendulous, and covered with long hair like its body. The F. S. is useful for shooting in field-sports, like its congener the setter.—See Spanie.
Field'-sport, n. Open-air diversion, as hunting, shooting, hawking, coursing, &c. (Used chiefly in the pl.)

Fiend'-fraying, a. Terrifying the infernal beings. Fiend'ful, a. Full of evil beings; full of malignant

Fiend'ful, a. Full of evil beings, ian or practices.
Fiend'fully, adv. In a malignant manner.
Fiend'ishiy, adv. In a fiend; malignant.
Fiend'ishiy, adv. In a fiendish manner.
Fiend'ishiness, m. Maliciousness.
Fieree, (fers, la. [Fr. furouche; Lat. ferox, fersus, savage; akin to Gr. ther, a wild beast | Violent; outrageous; not to be restrained; passionate; as, their anger was ferox.—Savage; ravenous; easily enraged; as, a ferox lion.—Passionate; angry; furious: as, "a ferox mind."

Locky.

Strong: forcible; violent; rapid: as, the fiere winds.

Fierce'ly, adv. Violently; furiously; with rage; as, to look fercely.

Fierce's minded, a. Of a vehement, furious, or violent temper.

temper.
Fierce/ness, n. Ferocity; fury; savageness; eagerne
for blood; quickness to attack.—Vehemence; keenne

for blood; quickness to attack.—Vehemence; keenness in anger or resentment; violence; excessive passion.

Fie'ri-fa'clas, s. [Lat., you may cause to be done.]
(Law.) A judicial writ, commanding the sheriff to make good a sum already adjudged the plaintiff, out of the lands, goods, or chattels of the defendant.

Fi'erily, adv. In a hot or flery manner.

Fi'erimess, s. Heat; acrimony; heat of temper; irritability.

Fieriness, n. Heat; acrimony; heat of temper; irritability.

Fi'ery, a. [From fire, q. v.] Consisting of fire; hot, like fire; as, a fery gulf.—Vehement; ardent; active; unrestrained; as, a fery steed.—Easily provoked; irritable; passionate; outrageous; as, the firey duke.—Heated by fire; as, "a fery wound."—Ipp.
Fi'ery-ehammber, n. (Hist.) See Chamer Addity.

Fi'ery-eross, n. The rallying symbol of the Highlanders of Scotland in any sudden emergency. It was also called Crantara, from the Gael. Cren tariph (the cross of shame), because disobelience to what the symbol implied was considered infamous.

Fi'ery-costed.a. Easer for motion; swift in motion;

implied was considered infamous.

Fi'ery-footed, a. Eager for motion; swift in motion; as, "a frey-footed, a. Eager for motion; as, "a frey-footed team"—Spener.

Fieschi, Joseph, (fe-et'ke,) a Corsican, and the author of one of the most terrible conspiracies of which history has preserved the remembrance. Having conceived a hatred for the French king, Louis Philippe, in consequence of the deprivation, by the prefect of the Seine, of a situation which he held, he constructed an infermal machine of about 100 gun-larrels fixed in a frame, which he discharged simultaneously, by means of a train of gunpowder, from a house in the Boulevard-du-Temple, during a review of the National Guard, July 28, 1836.

The king escaped unhurt, but Marshal Mortier and 17 people were killed, and many more wounded. F., with his accomplices, Pepin and Morey, was guillotined, Feb. 16, 1836.

people were killed, and many more wounded. F., with his accomplices, Pepin and Morey, was guillottined, Feb. 16, 1836.

Fies'ee Comspir'acy. (Hist.) Glovanni Luigi Fiesco, Count of Lavagna, disliking the republican government established at Genos by the Admiral Andrew Borla, formed a plot for his assassination and the establishment of an oligarchy. The insurrection took place Jan. 2, 1547, when Borla was compelled to flee, and his grand-nephew Giannetino was put to death; but the leader, F., at the commencement of the outbreek, slipped while stepping from a galley, and being overweighed by his armor, sank in the waves and perished.

Fiesole, (fies-shia), (anc. Fixular,) in antiquity, a considerable city of Etruria, now a small though celebrated town of Central Italy, prov. Florence, on a precipitously steep hill commanding a fine view of the Val d'Arso. 4 m. N.E. of Florence. It is dotted with many beautiful villas belonging to the Florentine citizens. After the fall of Etruria, F. was colonized by the Florentines. 10p. 3,887.

Fieso'le, Fra Giovanni Da, commonly called Fra Angelico, B. at Mugello, 1387. His family-name was Gaiso; his surname of Fiesole he acquired from the order of predicants at that place, whom he joined in 1409. He died in 1455. — Fra Angelico was distinguished for his pious life, and the same sentiment pervaded all his works; he was remarkably methodic in his habits, he commenced every picture with prayer, and invariably carried out the first impression, looking upon it as a species of inspiration. His principal works are some freeces in the convent of San Marco at Florence, and other in the chapel of San Lorenzo in the Vatican. His chief merit is a refined sentiment and high order of expression, in which qualities Fra Giovanni was, as it were, the type of his successors, the model of the qualtrocento school of painters.

Fife, n. [Fr. Afre; Ger. pfrife; Icel. pipe; W. pib. See of painters.

of painters.

Fife, n. [Fr. Afre; Ger. pfrife; Icel. pipa; W. pib. See
Pipk.] (Mus.) A wind-instrument, resembling a small
flute in its form and method of performance, seldom having any keys, and never more than one. Fifes are of
three kinds, called respectively A, B, and C. They are
made from ten to sixteen inches in length, with or without a joint. The B fifes are the longer and lowest in
tone, while those tuned to the key of C are the shortest
and highest, and are much oftener use 1; they have a
compass of two octaves. When employed for military
purposes, or open-air performance, the fife is a very purposes, or open-air performance, the fife is a very pretty as well as useful instrument; but its tone is too harsh and acute to be pleasant in chamber-music.

Digitized by GOOQ

Fife, v. s. To play on the fife; as, to fife the live-long day.

-r. a. To play on the fife, as a time.

Fife'-major, s. (Mil.) The chief of the fifers of a regiment; he who directs the fifers of a regimental band.

Fifer, s. One who plays on a fife.

Fife'-rail, s. (Naul.) A rull around the mast of a ship, in which the belaying-pins are ranged, and where the loose cordage belonging to the rigging of that mast is called. is coiled.

is couled. Fifes hire, a maritime co. of Scotland, consisting of the peninsula lying between the Frith of Forth on the S., the German Ocean on the E, and the Frith of Tay on the N.; having W. the cos. of Perth, Kinross, and Checkmannon. Area, 513 sq. m. Desc. This is one of the best situated and most beautiful of the Scotlish and Chekmannon. Area, 518 ag. m. Delectina of the best situated and most beautiful of the Scottish counties, exhibiting every variety of surface and soil, from the mountain to the level plain, and from moss and gravel to the finest loams. Rivers. Eden and Leven. Prod. Cerest crops. The Fife breed of cattle are well-known and highly estermed. Min. Copper, iron, coal, lime, &c. Mansy. Linens. Prin. towns. Cupar (the cap.) Dunfermline, Kirkaldy, and St. Andrews. Pop. 170,247. Fife-Nems. a cape on the E. coast of Scotland, co. Fife projecting into the North Sea, in Lat. 589 17' N., and Lon. 29 38' W. Beyond it is the dangerous reef, known as the Carr Row.'s, extending for some distance into the sea. Fife-s., in Virginia, a post-office of Goochland co. Fife. S., in Virginia, a post-office of Goochl

containing one part in fifteen.

a. One of the 15 equal parts into which any unit may be

a. (Inc. divided.

(Mus.) An interval of two octaves; also, a name given to a stop on the organ, a double octave above the diapason, as its name imports.

Piffkia, a. [A. S. Afa. See Five.] The ordinal of five the next in order after the fourth; containing one particular.

Fifth, z. One of the five equal parts into which any

Fifth, a. One of the five equal parts into which any unit may be divided.

(Mus.) A distance comprising four diatonic intervals, that is, three tones and a half. It is the second of the consonances in the order of their generation. As consecutive fifths do not produce a good effect, they are not allowable in harmony. There are three kinds of fifths:

viz. the perfect fifth (C.—G), consisting of three whole tones and a semitone; the flat, diminished, or imperfect fifth (R.—R), consisting of two whole tones and two semi-

PICE

tones and a semitone; the flat, diminished, or imperfect fifth (B—F), consisting of two whole tones and two semitones; and the extreme sharp, or superfluous fifth (C—G sharp), composed of four whole tones.

Pifthary, adv. In the fifth place.

Piftha-meen archy-meen, n. pl. (Eng. Hist.) A set of fanatics who formed a principal support of Cromwild during the Protectorate. They considered his assumption of power as an earnest of the foundation of the fifth monarchy, which should succeed to the Assyrian, the Persian, the Gresian, and the Roman, and in which Jesus Christ should reign with the saints on earth for the space of a thousand years. Upon the restoration of the royal family, and the return of the kingdom to its former principles in Church and State, a party of these enthurinciples in Church and State, a party of these enthu-asta, headed by a man of the name of Venner, made a desperate insurrection in the streets of London, which was put down with the slaughter of a great number of

them. Fif tieth, a. [A. 8. Aftectha, Aftigetha.] The ordinal of fifty; the next in order after the forty-ninth; containing one part in fifty.

Fif tieth, a. One of the fifty equal parts into which any unit may be divided.

Fifty, a. [A. 8. Aftig, from Af, five, and tig, ten.] Five times ten.

First, a. [A. S. Man, from M., and any ten.] Five times ten.

Fiffy, a. The product of five by ten; the symbol that is used to represent this number, as 50, or L.

Fig. a. [A. S. Ke; Ger. Feige; Lat. Scus; Cf. Gr. sykon.]

(Bot.) The fruit of the fig-tree.—See Figure.

Anything valueless; an expression of contempt; as, not to value it a Ag.

(Fig. v. a. To insult with contemptuous motions of the fingers.

Fig. v. a. To insult with contemptuous motions of the fingers.

Fig. annula

fingers.

Fig-apple, s. An apple having no core or kernel.

Figwre, (Lit. and Mus.) A dramatic character, brought by Beaumarchais on the stage in Paris about 1785, in his two dramas, the Barbier de Seville, and Muriage de Figero. Since that time, Mozart, Paceiello, and Rossini have made the name celebrated in classic operas; and now the term is frequently used to denote an adroit and cunning accumuling accumuling accumuling.

Figence, (freshick) a town of France, dep. Lot, cap. arroad., on the Colé, 31 m. N.E. of Cahors. Manuf. Linen and cotton fabrics, &c. It is the birthplace of Champollion, the Egyptian traveller and archeologist. Pop. 9210

Fight, (fir.) v. n., (imp. and pp. rought, (fawt.) [A.S. feshtan; Ger. fechten; Icel. fikta;— allied to Gr. pykteme, to box, from adv. pyx, with clenched fist.] To strive, or contend for victory in battle or single combat; to contend in arms; to battle; as, to fight against our country's foes. — To strive; to struggle; to resist; to check: to oppose.

e.a. To carry on a contention against; to maintain, as a struggle for victory over enemies; to contend with in battle; to war against; as, to fight the enemy in battle.—To cause to fight; as, to fight cocks, to fight a

-m. A struggle for victory; a battle; an engagement; a combat; an encounter; a duel; as, millions ranged for fight, to slay in single fight.

Fight'er, s. A combatant; a warrior.

Fight'ing, p. a. Qualified for war; fit for battle; as, fighting men.—Occupied in war; being the scene of war; as a fighting field.

Aghting men.—Occupied in war; being the scene of war us, a fighting field.

—n. Contention; strife; quarrel.

Fighting Island, an island of L. Canada, in the De

Fighting Island, an island of L. Canada, in the Detroit River, about 3 m. below Sandwich.
Fight'ingly, adv. Pugnaciously.
Fight'-wite, n. (Eng. Law.) A fine anciently imposed upon such persons as, by fighting or quarrelling, disturbed the public peace.
Fig'-leaf, n. The leaf of the fig-tree. — Any thin or scanty covering, — alluding to the garments of our first parents.

parents.

Fig'-marigold, n. (Bot.) See MESKMERYANTERMIUM.

Fig'-ment, n. [Lat. hymentum, from fingere, to form or shape.] An invention; a fabrication; something feigned or imagined; as, the figments of idle brains.

"It carried rather an appearance of Agment and invalid in the state of the state of

Fig-pecker, n. (Zoll.) A bird, the BECATICO, q. v. Fig-shell, n. (Conch.) A univalve shell shaped like a fig. Fig-tree, n. (Bol.) The Ficus carica. See Ficus. Figueira, (fegueira) a town of Portngal, prov. Beira, at the mouth of the Mondego, 24 m. S.W. of Coimbra;

pop. 5,375.

Figueras, (fe-gair'as.) a town of Spain, near the N.E. corner of Catalonia, prov. Gerona, 71 m. N.N.E. of Barcelona. The citadel or castle of San Fernando, near the ceiona. The citadel or castle of San Fernando, near the town, is one of the finest fortresses in Europe. It will serve as an intrenched camp for from 16,000 to 17,000 men. It was, however, taken by the French three times successively, in 1808, 1811, and 1823. Manuf. Linen and woollen goods, leather, soap, corks, oil, wine, &c. Pop.

11,383.

Fig'ulate, or Fig'ulated, a. [Lat. figulatus, pp. of figulare, to shape, from figulus, a potter; root fig, found in fingere, to form.] Moulded; shaped; made of potters clay. (a.).

Figurablifity, n. Capacity for taking and retaining

certain form

a certain form.

Fig urable, a. [Fr.; L. Lat. \*\*fgurabilis\*, from \*\*fgura\*
shape.] That may be brought to a certain fixed form.

Fig ural, a. [See Figurars.] Represented by delineation; consisting of figures; as, "the \*fgural\* resemblances of various regions." — \*\*Browne.\*\*

Figurant, n. [Fr., pp. of Aguerer, to represent, to dance in figures, from Lat. Aguera.] An operatic dancer who never performs alone. — An accessory on the stage, who appears in the scenes, but takes no part in the dialogue. — One who appears on any scene, without taking other than a very subordinate part.

Figurante, n. [Fr.] A female figurant.

—One who appears on any scene, without taking other than a very subordinate part.

Figurante, a. [Fr.] A female figurant.

Figurante, a. [Fr.] A female figurant.

Figurate, a. [See Figura.] Of a determinate form; as, \*garate plants.

—Resembling anything of a determinate form; as, \*fg-wrate stones retain the form of shells into which they were formed at the delugs."—Johnson.

Figurate counterpoint. (Mus.) That which contains a mixture of discords together with the concords.

Figurate or \*fgurat numbers. (Math.) A series of numbers, formed from an arithmetical progression having a unit for its first term, and a whole number for the regular difference—by taking the first term and the sums of the first two, first three, &c., as terms of a new series, from which another may be formed in the same way, and so on; the numbers in all the resultant series being such that if they be represented by dots or points, such dots can be readily arranged into geometrical figures, as triangles, squares, pentagons, &c.

Figurated, a. Having a determinate figure or form.

Figurated, a. Having a determinate figure or form.

Figuration, n. [Lat. \*fguratio, from \*fgurations.] Representing something else: representing by resemblance; typical; as, "his, they will say, was \*fgurative." (Hooker.)

—Not literal or direct: changed from the direct meaning; as, a \*fgurative sense, a \*fgurative expression.—Abounding with tropes and figures of speech; as, a

— Not literal or direct; changed from the direct meaning; as, a figurative sense, a figurative expression.— Abounding with tropes and figures of speech; as, a highly figurative description. Figuratively, ade. By a figure or type; not literally. Figuratively, ade. By a figure or type; not literally. Figurativeness, n. State of being typical; not literal. Figure, (figur), n. [Fr.; Lat. figura, from fingo, to shape, to form. Exponential.] A form, shape, to form. Exponential. A form, shape, to find the form of anything as expressed by the outline or terminating extremities; semblance; structure; appearance.

Doing in the foure of a lamb the feats of a lion."

Person; distinguished or elegant appearance; distinctive trait presented to one's observation or knowledge; as she was the finest figure there, to look a sorry figure, &c. "I was charmed with the gracefulness of his figure and de-ery."—Addison.

Astatue; an image; representation in painting, model-ling, carving, &c.; as, a figure in ivory, bronze, &c. A design or representation woven in, or painted on cloth; any design or fanciful ornamentation stained or drawn on paper, or wrought out in any manufactured

"A coin that bears the Agure of an angel."-SA

A character denoting a number; a digit; a numeral; as 1, 2, 3, &c.; — hence, a person expert at figures.

-Magnificence; splendor; dignified appearance.

"His chief end to grow rich, that he may live in Agure and dulgence."—Law.

-A horoscope; a diagram of astrological aspects; as, "fgure-flingers and star-gazers." — L'Estrange.

-Type; representative; emblem; symbol.

"Who is the flowre of Him that was to come."-Rom. v. 14. Amount: price; value; as, goods at a low figure, what

the figure?
(Dancing.) The several steps which the dancer makes, as marking figures or diagrams on the floor.
(Mus.) An ornamental phrase or group of tones from

or about a single tone.

(Gram.) Any deviation from the rules of analogy or

syntax.

(Rhet.) It is defined to be, in general, "that language (Rhet.) It is defined to be, in general, "that language which is prompted either by the imagination or by the passions." Rhetoricians commonly divide them into two great classes,—figures of words, and figures of thought; the words in the former case being employed in a sense different from their original and primitive meaning; in the latter the words are used in their proper and literal meaning, the F consisting in the turn of thought; but the distinction is of no great use. One is apt to imagine, that as F of speech always devote some departure from simplicity of expression, the One is apt to imagine, that as F. of speech always depote some departure from simplicity of expression, they are therefore artificial, are of late growth. This, however, is by no means the case; for the earliest and least cultivated languages are generally those that abound most in F. From the very paucity of his language, and the want of proper expression to convey his meaning, man, in his untutored state, is led to exercise his fancy, and express his ideas in image and metaphor. Hence, then, what is a necessity in the language of the swages is that which also gives beauty and expres to the polished then, what is a necessity in the language of the savages is that which also gives beauty and grace to the polished languages of civilized life. F. serve to enrich a language and render it more copious; and they also bestow a dignity upon style, by enabling us to avoid the frequent use of common expressions to which the ear has been accustomed. More particularly, F. give us the pleasure of enjoying two objects presented together to our view without confusion,—the one signified by the figurative sense, which may be termed the principal object, and the other signified by the proper sense, which may be termed accessory; the principal making a part of the thought, the accessory being merely ornamental. Lastly, F. possess a signal power of aggrandizing an object, giving frequently a much clearer and more striking view of the principal object than could have been the case if it had been expressed in simple terms and divested of its accessory idea.

To cut a figure, to make a figure; to act a distinguished part; to attract observation in a manner to elicit sur-

prise or admiration.

e. a. [Fr. Agurer: Lat. Agure.] To form, fashion, or mould into any determinate shape; to show by a corporeal resemblance, as in a picture or statuary; to make a drawing of.

"Accept this gobiet rough with Agured gold." - Dryden

To cover or adorn with figures or images; to mark with figured representations; to form figures in by art; as, a Agured waistcoat.

The top of heaven figured o'er with burning mete To represent by a typical or figurative resemblance; to symbolize; to emblematize; as, "white vestments Agare innocence." — Shaks.

To image in the mind; to conceive.

rure to ourselves the thing we like." — Henry Taylor.

-To note by numeral characters; also, to reckon; to cal-culate; to compute; as, "the figured hours." — Dryden. -To prefigure; to foreshow. re giorious suns, . . . is this the heaven Agures some

(Mus.) To pass several notes for one; to form runnings-or variations.

To figure out, to ascertain the amount by computation.

To figure up, to cast up figures; to add; to reckon.

—v. n. To make a figure; to be distinguished or notable; as, as a man of fashion he figured about town.

Figured. (figurel) p. a. Represented by resemblance; adorned with figures; as, figured damask.

(Mus.) Free and florid.—Noted by figures.

Figure-head, n. (Naul.) The figure, bust, statue, or emblematic representation at the projecting part of a ship's head, above, or at an angle with the cutwater; where ships have no distinctive figure-head, but in lieu of it a scroll of wood-work, it is then called a billet-head. where ships have no distinctive figure-head, but in lieu of it a scroll of wood-work, it is then called a bille-head.
Fig'usre-stome, s. (Min.) Same as AGLENTOLITE, q. v. Fig'urist, n. An interpreter or exponent of figures.
Fig'-wort. n. (Bat.) See SCROPHULARIA.
File, a. Same as Fyke (q. v.).
Filecoms, (Fid\*inus) a. [From Lat. filum, a thread.]
Composed of threads; consisting of threads; resembling threads

thre Filadel'fla, a town of S. Italy, in Calabria, 12 m. N. of

Filadel'fia, a town of S. Italy, in Calabria, 12 m. N. of Nicaswo; pp. 4,550.
Filage, n. [Lat. flum, a thread.] (Bot.) The Cottonrose, a genus of plants, order Asteracca. They are downy, canescent herbs, native of Europe. F. Germanica, the German Cudweed, is sparingly naturalized in fields and roadsides in the N.W. States.
Filament, n. [Fr., from L. Lat. flamentum; Lat. flum, a thread. Etymol uncertain.] A significant thread; a fibre: as, "withered veins and flaments." — Harvey, (Bot.) The long thread-like part which supports the anther of a stamen.

(Physical.) The primitive form of all animal tissue—

anther of a stamen.

(Physid.) The primitive form of all animal tissue—

a thread, a fine muscular hair—an indefinite number
of which bound together constitute a fibre; a congeries
of fibres similarly bound together forming a facciculus;
and a series of fasciculi comprising a Muscle, q.v.

Fil'amentoid, a. [Filament, and Gr. eidos, form.] Of the nature of a filament.

Filamen'6ous, a. Like a thread; composed of fine filaments, or thread-like processes.

Fil'amder, n. (2011.) See Halmattrus.

—pl. [Fr. filanders, from Lat. filam.] A disease peculiar to hawks, resembling filaments of congealed blood;—also, small thread-like worms that breed in hawks.

Filamgleri, Gartano, (filam-jr.dir'e.) a celebrated writer on political economy and legislation, was u. in Naples, 1752. He was at first intended for the army, but being of studious habits, he was allowed to gratify his inclination for a literary life. His great work, entitled The Science of Legislation, notwithstanding it was never completed according to his original design, attracted great attention, from its bold and original view, tracted great attention, from its bold and original views, and the liberality of its sentiments; and placed him in the rank of a first-rate writer upon one of the most diffi-

the rank of a first-rate writer upon one of the most diffi-cult and important subjects that can engage the mind of man. In 1787 he was made a member of the supreme council of finance, and D. 1788.

Filera, a. [From Lat. filem.] Pertaining to a thread; constructed with a thread or thread. [Coll.] A genus of Nemaloids, or intestinal worms, common to large and small animals, and infesting even certain of the mol-luca. Of this family the most inimical to the comfort of man is the Guineaworm (Filerain schimensis), called lusca. Of this family the most numerous of man is the Guinoa-worm (Pilaria medinessis), called also Dracunculus, which, in hot climates, instinutes itself under the skin of the lower members, causing excruciating pain. It has a slender and thread-like body, and sometimes attains a length of six feet. It is met only in certain portions of the torrid and temperate somes in Africa and Asia, and is especially frequent on the African caust.

the African coast.

Fil'ature, n. [L. Lat. Hainera.] An elongating into thread;—hence, the reeling of silk from cocons.—A reel for drawing off silk from cocons.

Fil'bert, n. [stymol. uncertain.] (Bot.) See Harri.

Filela, (filch,) v. a. [Allied to piler, and Sp. pelikear, to pinch, to take only a bit, from Lat. edico, to pluck, pinch, nip.] To steal something of little value; to piler; to steal: to piller; to steal: to piller; to steal; to pillage on a small scale; to take wrongfully.

"He that flickes from me my good name... makes me poer is-He that flickes from me my good nam 1." — Shake.

Geod."—Shabs.
Filch'er, n. A thief; a pilferer; one who filches, or commits a petty theft.
Filch'ingly, adv. By petty larceny; pilferingly.
File, n. [Fr., from ft. [ast. filem.] A thread, string, or line, particularly, a line or wire on which documents or papers are strung for security; the whole number of papers strung on a line or wire; a bundle of papers tied together, with the title of each indorsed; as, a letter-file, a file of newspapers.

"From files a random recipe they take."—Drudes.

From flee a random recipe they take." - Dryden

-A catalogue; a roll; a list; a roster.

"Our present musters grow upon the file." - Sh

(Mil.) The term applied to two soldiers standing one before the other, or conjointy to any soldier in the front rank and the one who stants directly behind him in the rear rank, when the company is drawn up in line. A body of soldiers is often spoken of as consisting of so many rank-and-file; this includes the privates and the non-commissioned officers except the sergeants. Filemarching is when a company is drawn up in line, and the order given to face to the right or left, and march in that direction. Each front-rank man and his rear-rank man on his right or left, as the case may be, still compose a file. File-marching is a difficult movement for recruits, unless the leading file marches steadily, and takes are to "lock up." or keep closely in the sear of the file immediately before it. Men marching singly in line, one after another, are said to be marching in single or Indian F. (Mil.) The term applied to two soldiers standing one or Indian F.

On file, preserved for reference or security, in collected order and condition; as, newspapers are on file at the office.

To fasten, as papers, on a line or wire for pre

vation.

To arrange or insert in a body or bundle, as documents, indorsing the title of contents on each; as, to file letters.

To present or exhibit officially, or for trial; as, to file a petition, a schedule, &c.

To march in a file or line, as troops, not abreast, but one after another; as, to proceed in Indian file. (Generally preceding off.)

"We drew up in good order, and filed of." — Speciator.

To file with, to follow close upon the heels of another

to keep up with. "My en avore have ever . . . filed with my abilities."

"My endeavors have ever ... Med with my abilities."— Shake.

File, m. [A.S. feel; D. vijl; Ger. feile, allied to Lat.
polio, to smooth, and to Gr. philos, shining.] An instrument used to produce a smooth surface on hard substances, as metals, ivory, wood, &c. They are made of
bars of steel rendered doubly hard by a process called
double conversion, drawn the required size at the tilthammer, and then shaped. The square and flat ones
are formed by the hammer and common anvil only,
but the round, half round, and triangular ones are
shaped by means of bosses or dies made in the above
shapes. The steel blan's are next annealed (see AnNELING), to render them capable of being cut, by
placing a number of them together in a brick oven, rendered air-tight by filling up all the interstices with dered air-tight by filling up all the interstices with sand, to prevent oxidation of the steel to which it is liable if air be admitted, and then making a fire play as equally as possible all round until they are red-hot, when the heat is discontinued and the steel allowed to cool

gradually before it is uncovered. The surfaces on which gradually before it is uncovered. The surfaces on which teeth are to be cut are now rendered as smooth as possible by grinding or filing, and the teeth are cut with a carefully ground chisel, each incision being made separately. They are then hardened and tempered. This operation requires great care, for if a file is too hard the teeth easily break off, and if too soft they quickly wear down. Care must also be taken to keep them straight, as by sudden cooling the steel is apt to warp. Most files are cut by hand. As it is almost impossible to make a large number of blanks of the same degree of hardness, the force of the blow in cutting must be modified by the hardness of each one; hence, the difficulty in regulating hardness of each one; hence, the difficulty in regulating machinery to perform the work.—The files employed in the mechanical arts are almost endless in variety.

FILI

Any instrument for smoothing or polishing.
"Mock the nice touches of the critic's file." — Al —An asture, shrewd, keen person; one more apt to take advantage of others than to become a dupe himself; as, he's a sharp old file. (Vulgar.)

File, v. a. [Ger. feilen.] To cut, as with a file; to wear off or away; to shrade; as, to file a tooth.

—To polish; to make smooth, as with a file.

'His tongue is filed, and his eye ambitious.' File'-cutter, n. One who makes or cuts files.

"File-date, n. (Zoll.) See Ballsting, "Moson.
File-fish, n. (Zoll.) See Ballsting, "Moson.
File-leader, n. (Mil.) The leading soldier of a file one who marches in Iront.

Filemot, m. [Fr. fensile, a leaf, and morte, dead.] The color of a faded leaf; a dun, or yellowish-brown color.
"The colors... are blue and filemot turn'd up with red." — Swift.

"The colors ... are the File's representation of Manistee co. File's City, in Michigan, a post-office of Manistee co. Files, is on, or files, a furnity as on, or files, a furnity as on, or files, a daughter: Relating or belonging to a son or daughter; becoming a child in relation to his parents; as, flied duty, filed love.

—Bearing the character or relation of a son.

"And thus the files gotherd answiring spoke." — Miles.

Fil'ally, adv. In a flial manner.
Fil'aste, v. a. [See Affiliate, To affiliate; to father; to establish the relation of father; to adopt, as a son or daughter.

daughter.

Filiation, n. [Fr.] Act of filiating or affiliating, particularly, the fixing of a bastard child on some one as its father; adoption.—The relation of a child to a father;—correlative to PARENITY, q. v.

Filibuster, (sometimes erroneously written fillibuster,) n. [Sp.; Fr. filbuster, perhaps a corruption from the Eng. freebooter.] A sea-rover; a pirate; a corsair; a freebooter; a buccaneer;—sometimes applied to any military adventurer who undertakes an expedition against a territory, unanthorized by law or the exigenagainst a territory, unauthorized by law or the exigen-cles of war.

es of war.

(Amer. Hist.) The term F, now used in any country (Amer. Hist.) The term F., now used in any country where the English language is spoken, was first applied in New Orleans to certain adventurers who, after the termination of the war between this country and Mexico, exerted themselves with setting on foot within the U. States, military expeditions designed to operate in the Spanish-American countries to the south of us. The pretended object of these expeditions was the emancipation of those countries from tyranny, foreign or domestic, and the introduction of democratic institutions after the model of the U. States; but their real object undoubtedly was their own aggrandizement, by

emancipation of those countries from tyranny, foreign or domestic, and the introduction of democratic institutions after the model of the U. States; but their real object undoubtedly was their own aggrandizement, by re-enacting the part of the original Spanish conqueror. Though the setting on foot of such expeditions is contrary to our neutrality laws, yet, as they enjoyed a considerable degree of popularity, especially in Mobile and New Orleans, the laws were frequently evaded. The most noted expedition of this sort was that led by William Walker against Nicaragua in 1855, who succeeded in maintaining himself in that country for nearly two years; but was at length expelled by the union against him of the other Central American States. Walker was subsequently taken and shot at Truxillo, while engaged in another similar expedition.

Fill'bustering, pp. or a. A cant word, much used some years ago in our legislative assemblies to designate the employment of parliamentary tactics to defeat a measure, by raising frivolous questions of order, calls of the house, motions to adjourn, &c., in order to weary out the opposite party and to gain time.

Fill'busterism, n. Pircy; predatory action; course of conduct pursued by a filibuster or freebooter.

Fill'ecal, a. Pertaining to the Filicales, or Ferns.

Fill'ecal, a. Pertaining to the Filicales, or Ferns.

Fill'ecal, a. Pataining to the Filicales, or Ferns.

Fill'ecal, a. Pataining to the Filicales, or Ferns.

Fill'ecal, a. Pataining to the stem; they are generally called, arise irregularly from the rhizome, or are placed in tuffs upon the apex of the stem; they are almost always circinate in vernation, and are simple or compound. The fructification consists of little, somewhat rounded cases inclosing spores. These cases are called sporangia, and are collected in heaps, usually on the under surface or at the margin of the fronds, or rarely on the upper surface, or cocasionally in a spiked manner upon a simple or branched rachis. Ferns are found in greater or less abundanc

sub-orders, OPEIOGLOSSACEE, POLYPODIACEE (the true ferns), and DANEACEE, q. v. See F. of N. Am., (Cassino.) 1878.



Filic'iform, Fil'icoid, a. Fern-like.

Filiciform, Filicoid, a. Fern-like.
Filicoid, n. (Bot.) A fern-like plant.
Filiferous, a. [Lat. filem, a thread, and ferre, to produce.) Producing threads.
Filiform, a. [Fr. filiforme, from Lat. filem, a thread, and ferre, to produce.] Having the form of a thread or filament; slender; like a thread; as, a filiform peduncle.
Filifarane, n. [Fr., from Lat. filem, a thread, and granem, a grain.] Same as Filifare, q. v.
Filifaree, n. [See Filigare.] A delicate species of ornamental work in gold

work in gold or silver, wrought in little threads of the metal intertwisted in eccentric forms and pat-terns. It is of eastern origin, and was first introduced into Europe by to Europe by the Italians. In the East, India, Suma-tra, and Java have been cele-brated for the high excel-lence to which they have arrived in the prosecution of this art. When the gold or sil-ver has arrived at a molten state, it is drawn into



Fig. 1009. -- FILIGREE ORNAMENT. (From a drawing by M. Mariana, in the Florence exhibition, 1861.)

wire on an anvil, and then twisted. After twisting, it is h vil, and then twisted. After twisting, it is hammered down again into a flat state, and formed into the shape of flowers and leaves. When the fligree is finished, it is cleansed by boiling in water with common salt and alum, or occasionally lime-juics. This work is chiefly done in Malta, Sardinia, and the Ionian Islands.

ee, a. Relating to work in filigree; as, a fligree

basket.

Fil'igreed, a. Ornamented with filigree.

Fil'ings, s.pl. Fragments or particles rubbed off by the act of filing.

Fillippo d'Argiro (Sam), (felip'po dar-chêre,) (anc. Agyrium,) a central town of Italy, in Sicily, Val di Catania, 34 m. W. by N. of the city of Catania. The best saffron in Sicily is grown in the neighborhood. Diodorus Siculus was born here. Pop. abt. 4,000.

Fill, v.a. [A. S. fyllan; D. vullen; Swed. and Icel. fylla; Pan. fylla; Ger. füllen; allied to Lat. pico. picr. to fill; Sansk. pûr, to fill, of which the form puraydmi—Lat. pico, r being changed into l.] To occupy the whole or empty space of; to pour liquids into; to pour into; to put or pour in, till the thing will hold no more; to occupy, as a void space; to store; as, to fill a glass "With joy and shout the hollow universal orb they All'al. Misse. "With joy and shout the hollow universal orb they filld." Million

-To supply with abundance; to cause to abound or be plenteous; to make universally prevalent; to furnish with as much as is needful or desirable; as, reservoirs filled with water.

" Fill's with fury, rapt, inspir'd." - Colline.

To satisfy; to content; to surfeit; to glut; as, to fill with admiration, filled with wine, &c.

"Going? Aye, to see mest All knaves, and wine heat feels." Sh

-To possess and perform the duties of; to officiate in, as an incumbent; to hold; to occupy; as, to All the chair, to All a situation, &c. — To furnish with an incumbent or occupant; as, to All a vacancy.

fill in, to insert or enter, so as to fill; as, to fill in

To fill us, to insert or ouses, when the lights of a picture.

To fill out, to enlarge; to extend to a larger compass to spread; as, she has of late filled out in figure.

To fill up, to fill completely, or to the brim.

"Come, All up my cup; come, All up my can."—Scott.

—To occupy or absorb wholly or entirely; as, to All up

" Hope pours the bliss that fills up all the mind.

Fill. v. s. To fill a cup, glass, or vessel for drinking; as, they filled and drank his health in bumpers. "We fill to th' general joy of the whole table."—Shaks.

-To grow or become full; to make replete; to glut or satiate.
"Sails All'd, and streamers waving."—Millon
"Sails All'd, and streamers waving."—Millon
"The full as Alling up

To fill up, to grow quite full; as, filling up with flesh, the caffon fills up with water. — Fulness: repletion; as much as supplies want or demand; as, to have one's fill of food.

Who scorneth peace shall have his All of war."

-A till; the space between the shafts of a carriage. This mule being put in the All of a cart, ran away with it.

Fillagree, n. See Filiagre.
Fill'er, n. The person who, or thing which, fills; as, the filler of a wagon.

a more filler, to stop a vacancy in the hexameter." Dryden

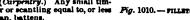
"Tis a mere Aller, to stop a vacancy in the haxameter." Dryden. Fillet, n. [Fr. Alet, dim. of Al, from Lat. Alum, a thread.] A little band to bind the hair.

(Obokery.) The fleshy part of the thigh in veal.—
Meat rolled together and tied around.

(Arch.) A small flat face or band used principally between mouldings, to separate them from each other, in Classical architecture (Fig. 1010). In Gothic architecture it is frequently worked upon larger mouldings and shafts: in these situations it is not always flat, but is sometimes cut into two or more narrow faces with sharp or more narrow faces with sharp edgree between them. When this appendage is placed upon the front of a moulding, as at A, it has been termed the keel of the moulding, and when attached to the sides, as at B, its wage.—F. is distinguished from the band by being of narrow width and always flat.

(Her.) An ordinary which, according to Guillim, contains the fourth part of the chief.

(Curpentry.) Any small timber or scantling equal to, or less Fig. 1010.—FILLETS. ore parrow faces with sharp



than, lattens.

(Gilding.) A little rule or ringlet of leaf gold,draw over certain mouldings, or on the edges of frames, pan

(Man.) The loins of a horse.

Pillet, r. a. To bind with a fillet or little band.

Pilleting, s. The material of which fillets are com

(Max.) The loins of a horse.

Filleting, n. To bind with a filet or little band.

Filleting, n. The material of which filets are composed.

Fillibeg, n. [Gael. Alleadh, plait, and beag, small.] A small plaid; a kind of dress hardly reaching to the knees, formerly much worn by the clansmen of the Highlands of Scotland, and still in use. (Written also philibeg.)

Fillibuster, n. See Fillustra.

Fillimg, n. A supply: that which fills up.

Fillimg, n. A supply: that which fills up.

Fillimg, n. A supply: that which fills up.

Fillimg the high state of the U. States, a stammer Illil, Caruga co., New York, 1800, and rose from the humblest beginning to the highest position attainable by an American citisen. Apprenticed to a wool-carder in his father's locality, he made amends, by his zeal in the pursuit of knowledge, for the scantiness of his means; and before he was of age, his talents and aptitude procured him the notice and esteem of Judge Wood, an eminent lawyer of his native county, who invited the young man to a desk in his office, and offered to defray his expenses while he qualified himself for the profession of the law. F. accepted the offer to a certain extent, while he contrived, by teaching in a school, to press as lightly as possible upon the generosity of his benefactor. In 1821 he removed to Eric county, and pursued his legal studies in the city of Buffalo. In 1827 he was admitted as an attorney; in 1829, as a consolior in the supreme court; and in 1830 he entered into partnership with an older member of the bar. It was in 1829 that he commenced his political career as a representative of Eric county in the state legislature, and in 1832 he was elected to the Congressional House of Representatives. For a number of years he alternated between political life and the exclusive practice of his profession, rising stendily in the general estimation as an able lawyer and consistent and promising leader of the Whig party. Elected in 1817 to the important post of comptroller of the State of New York, he enjoyed

ident F's messages favored the fugitive-slave law, and recommended a protective, but not a prohibitory tariff. Under his presidency, California was admitted as a new State into the Union. In his final message he had to deplore the death of Webster and is the Message here.

deplore the death of Web-ster; and in the March of 1853 he yielded up his office to his successor, Gen-eral Plerce. He left the country at peace within and without, and in the enjoyment of a high degree of prosserity in all denertenjoyment of a high degree of prosperity in all departments of its inclustry. He was the candidate of the American party for the presidency in 1856, but he received a very small minority of votes, the contest lying mainly between Mr. Buchanan and Col. Fremont. Mr. F. was then visiting Europe, and was received at the principal courts with the distinction which his character and career claimed for him. After his retirement from public life he resided



the distinction which his character and career claimed for him. After his retirement from public life he resided at Buffalo,—which was his home for some 30 years, and where he enjoyed among all classes that high consideration to which, by his talents and integrity, he was so justly entitled. Died March 8, 1874.

Fill more, in California, a post-office of Ventura co.

Fillmore, in Illinois, a village of Coles co.

A post-village of Montgomery co., about 15 m. N.W. of Vandalia.

Vandalia.
Fillmore, in Indiana, a post-village of Putnam county, about 35 m. W. by S. of Indianapolia.
Fillmore, in Iocca, a post-village of Dubuque county, about 20 m. S.W. of Dubuque.

—A township of Iowa co.
Fillmore, in Indiapas, a township of Allegan co.

—A post-office of Barry co.
Fillmore, in Minnesota, a S.E. co., bordering on Iowa; area, about 864 sq. m. Ricera. Root river. Surface, undulating; soil, fertile. Cap. Preston. Pup. (1895) 28,599.

28,599.

A thriving post-village and township of Fillmore co.

Fillmore, in Missouri, a post-village of Andrew co., about 17 m. N. by W. of St. Joseph.

Fillmore, in Nebruska, a S.E. co.; area, 576 sq. miles; fertile prairie, little timber. Rivers. West fork of the Blue and Turkey creeks. Cap. Geneva. Pop. (1890)

In the same largey cream. Cop. General. 299. (2025)
16,022.

Fillmore, in New York, a post-office of Allegany co.

Fillmore, in Ohio, a post-office of Washington co.

Fillmore, in Viccousin, a post-office of Washington co.

Fillmore, in Utah, a post-office of Washington co.

Fillmore, both Nuquin River, at the foot of the main Wabash range, about 150 m. S. from the Great Salt Lake, and 600 m. E. by N. of Sau Francisco. Both town and county were named in hour of President Millard Fillmore, who is held in great esteem among the Mormons on account of the favor he displayed towards them at the time of the organization of the territory in 1850.

Fillip, v. a. (Probably formed from the sound.) To strike with the nail of the finger, forced from the thumb with a sudden spring.— To snap with the finger and

with a sudden spring. — To snap with the finger and thumb.

thumb.

Fillip, m. A jerk of the finger suddenly forced from the thumb; sa, s, Miip on the nose.—Anything that suddenly arouses one; sa, to give a filip to the imagination.

Fillipeem, n. Same as Philopexa, q. v.

Filly, n. [A. S. fola; Goth. fula; Ger. fullen, a colt; allied to W. fillog, a young mare before it has reached its third year.—A wanton young woman; a fiirt.

it has reached its third year.—A wanton young woman; a flirt.

Films, n. [A. S. fim, a skin, fyimm, a thin skin; Cf. W. piles, a membrane, from pil, a rind.] A thin skin; a pellicle on the eye; as, the film of a cataract.

The threads of a spider's web; as, to clear away the film from a room long disused.

e. a. To cover with a thin skin or pellicle.

Films'y, a. Composed of thin membranes or pellicles; colweit-like: as, the filmy dew."

Filose', a. [L. Lat. filosus, from filum, a thread.] That ends in a threadlike process.

process.
Fil'ter, n. [Fr. filtre;
Lat.filtrum, or faltrum,
properly felt, or fulled wool, used originally as a strainer. See FELT.] (Chem.) An ap-paratus by which fluids are separated from any solid matter held any solid matter neid in suspension. They may be divided into 4 classes, — those used in straining chemical liq-uids, those used for puuids, those used for purifying water for household purposes, those employed on a large scale by water-companies, and those used on shipboard for changing materials. salt water into fresh. Chemical filters are either used for rendering



Fig. 1012. — FILTRATION.

fluids transparent, or for the purpose of separating and washing precipitates. They are usually made of unsized or blotting paper, folded into four, and placed on a funnel [Fig. 1012]. When the liquid to be filtered is corrosive, eand, powdered glass, or wisps of asbestos, are generally used. When a liquid contains mucliaginous or other matter having viscous properties, there is considerable difficulty in filtering it, as the pores of the redium become filled up and made water-tight. Special filters are therefore required for syrups, olia, &c. Such liquids as ale, beer, &c., would be exceedingly difficult to filter, and therefore they are clarified by the process described under Fishno. Oli is usually passed through long bage made of twilled cotton cloth (Cunton fiannel). These are commonly 4 to 8 feet long, and 12 to 15 inches in diameter, and wre enclosed in coarse canvas bags, 8 or 10 inches in diameter; and thus the inner filtering-bag is corrugated or creased, and a large surface in proportion to its fire is thus presented. Syrups are filtered on a small scale by confectioners, &c., by passing them through conical fiannel bags, and on a large surface in the creased bag filter just described. Thick syrups have to be diluted or clarified with white of egg, to ollect the sediment into masses, and then they may be filtered through a coarse cloth strainer. Vegetable juices generally require to be treated in this manner. — Household filtres for purifying water, either for drinking or culinary purposes, are made in various forms. In Paris a large quantity of the river-water is purified by passing it through boxes, at the bottom of which is a layer of charcoal between two layers of sand. But the contrivance which we especially wish to recommend to the notice of our readers, and particularly of hunters and travellers, is an apparatus that in the bush or shrub, where water is often so loaded with sand, and so I ad as scarcely to be fitted for use, is an invaluable companion. scarcely to be fitted for use, is an invaluable companion.



Fig. 1013. — SUCKING-FILTER

The instrument as shown in use in Fig. 1013 fully speaks fo. itself as to its utility. A small sphere of carbon, to which a gutta-percia tube and mouth-piece is attached, comprises the whole invention, with the exception of at in box in which to carry this unique drinking-filer. The merits of this little filter, however, do not end here, for it can be made to answer the purpose of a family filter by merely sinking the carbon into a pail of water placed on a table, exhausting the air from the tube by sucking, bending it over the side, and inserting the mouth-piece into a jug placed on a chair, when the stream of filtered water will continue to flow as long as any remains in the pail.

Fil'Ger, v. a. [Fr. filter; L. Lat. filtrar.] To purify or defecate liquor by passing it through a filter or a porous substance. The instrument as shown in use in Fig. 1013 fully speaks

substance.

—r. n. To percolate; to pass through a filter.

Fil'ter, n. A love-potion.—See Printzs.

Fil'tering, n. The act of passing through a filter.

Fil'tering-paper, n. An unsized, porous paper, used for filtering.

Filtering-paper, n. An unsized, porous paper, used for filtering.

Filth, n. [A. 8. fylth. from fulian, befylan, from ful, corrupt, rotten.] Foulness; dirt; any foul matter; waste matter; nastiness.—Anything that sullies or defiles the moral character; pollution; corruption; as, "the filth of sensual delights."—Tillotson.

Filth'illy, adv. Foully; grossly.

Filth'iness, n. The state of being foul; nasty; filthy.—Whatever is filthy, or causes filth, whether of mind or body; corruption; pollution.

Filth'y, a. Nasty; foul; dirty; unclean; squalid; gross.—Corrupt; polluted; defiled by sinful practices; moraily impure.—Obtained by base and dishonest means; as, filthy lucre.

impure.— Untained by base and dishonest means; as, filly lucre.

Filtrate, v. a. [L. Lat. filtrare, to percolate. See Filtra.]
To strain; to defecate, as liquor, by percolation.
Filtrations, n. [Fr.] The mechanical separation of a liquid from the undissolved particles floating in it.—

e FILTER

See Firen.
Firm Die, n. [Corrupted from female; Ger.fimmel.] The light summer hemp that bears no seed.
Firm Dria, n.; pl. Fire Sris. [Lat.] (Anat.) A fringe.
Especially applied to a number of loose, fringe-like processes, terminating the Fallopian tubes.
(Bot.) The dentated or fringe-like ring of the operculum of mosses, by the elastic power of which the operculum is displaced.

is displaced.

Fim'briate, Fim'briated, a. [Lat. finbriatus, from fimbria, the edge or border of anything.] (Bot.) Fringed; bordered with slender processes or appendages.

Digitized by

(Her.) Ornamented, as an ordinary, with a narrow border of another tincture.

Fim brieaste, a. (Bot.) Fringed; jagged; fimbriate.

Fim, s. [A. S. fs.; D. vis.; allied to Lat. pissa, pessa; old form petsa, the root of which is found in Gr. petesthai, to fly.] One of

the projecting wing-like organs which like organs which enable fishes to balance themselves in an upright position, and assist in regu-



and assist in regulating their motions in the water. In the Fig., D is the dorsal or back-fin, P the pectoral or breast-fin, V the ventral or belly-fin, A the anal, and C the caudal or tail-fin. The name fins is given to the locomotive organs of the Ctiacea, but not to those of any other Mammalia, even when, as in the case of the hind-feet of seals, they approach very nearly to the character of the fins in fishes.

Anything recombling a fin: as, the fix of the plough-

Anything resembling a fin; as, the fin of the plough-

Fin. v. a. To carve, as a chub.
Fin., v. a. To carve, as a chub.
Fin., v. (Geog.) A native of Finland; — written also Finn
Fin. able, a. [From fine, q. v.] Subject to a mulct or

Pf'mal, a. [Fr., from Lat. finalis; finis, the end.] Relating to the end; last; ultimate; as, "the final hope."
—Conclusive; decisive; as, a battle final to a war.
—Mortal; destructive; as, "resolved to work his final

Mortal; destructive, see, smart."—Spenser.

(Log.) The final cause is the end for which a thing is done, or the object to which it contributes; the thing itself in its entirety.

Finale, (fenala, n. [Fr. and It., from Lat. finis, the end.) Conclusion; termination; as, a fitting finale to the life.

(Mus.) The last note of a piece of music. - The piece

(Mis.) The last note of a piece of music.—The piece which closes a musical entertainment.

Finale, (f-nd'lai,) a walled town of Central Italy, prov.

Modena, on an island in the Panaro, 21 m. N.E. of Modena, and 16 W. of Ferrara. Manuf. Silks and woollens; and an active trade prevails in corn, wine, and hemp. Pop. 12,361.—Another, in N. Italy, 10 m. from Albenga, on the Gulf of Genos; pop. 4,750.

Final'ity, n. The state of being settled, finished, or concluded.

Et'mally a de. Ultimately: lastly.

Final'ity, n. The state of being settled, finished, or concluded.

Fi'mally, adv. Ultimately; lastly.

—Completely; beyond recovery; as, "many men are fanally lost."

Finamee', n. [Fr., from L. Lat. financia, a money-payment.] The art of managing money-matters, the person who professes this art being called a financiar. F., in the plural, is often used for money itself, but still with a reference to the purpose to which it is to be applied, as where the finances of a country are said to have improved or fallen off—that is to say, have become abundant or scanty according to the expenditure of the country. Sometimes the word is applied to private wealth, but it is properly applicable to public funds. We use it in this country, as it is in England, rather in a political and economic sense than officially; but in France there have been, from time to time, comptrollers-general of finances, comedia of finances, bureaux of finances, ac; and at the present time, Minister of Finances, corresponding to our Secretary of Treasury. Many statemen have been spoken of an great financiers, from the talent which they have shown for adjusting national revenue and expenditure.

and expenditure.

Financial, a. Pertaining to public, corporate, or in-

Financial, a. Pertaining to public, corporate, or individual revenue.

Financier, (Anan-zēz',) n. [Fr.] A manager or collector of the public revenues.—One skilled in matters of finance.—See Finance.

Fin'eastle, in Indiana, a village of Putnam co., abt.

Fin'castle, in Indiana, a village of Futnam co., act. 14 m. N. of Greencastle.

Fin'castle, in Ohio, a post-village of Brown co., act. 90 m. 8.8.W. of Columbus.

Fin'castle, in Tennessee, a post-village of Campbell co., act. 200 m. E. of Nashville.

abt. 200 m. E. of Nashville.
Fine'castle, in Texas, a post-office of Henderson co.
Fine'castle, in Virginia, a post-village, cap. of Bote tourt co., abt. 175 m. W. of Richmond.
Finch, n. [A. S. fine; Ger. finke.] (Zoll.) See Frinch.

Finch'-backed, a. Striped or spotted on the back

Finched, a. Having a white streak on the back, as

steer.

Fine Tiey, a suburb of London, co. Middlesex, England, noted for its common, and fine public cemetery, 7½ m. N. of St. Paul's Cathedral; pop. abt. 7,000.

Fined, (fined,) v. a., (imp. and pp. FOUND.) [A. S. findan, Icel. finna; Ger. finden; Dan. finden, probably allied to Gr. punthanesthai, to find out by inquiry.] To reach; to meet; to discover; to meet with; to obtain by searching or by accident.

"Seek and we shall find." - Matt. vii. 7.

-To gain; to get; to acquire; to procure; to obtain; as "to find leisure."

To observe; to perceive; to remark; as, to find beauty, or wit, in a person.

To detect; to catch; as, to find one in a lie.

To supply; to furnish; as, he finds me in money and

victuals.

(Law.) To approve; to determine by verdict; as, to find a bill, to find the prisoner guilty.

To find one's self, to be with regard to health; as, how

do you find yourself!—To find out, to unriddle; to solve; as, to find out the meaning of a parable;— to discover comething hidden; as, "canst thou by searching find out God!" (Job ii. 1.)—To discover; as, to find out a

FINE

friend.

Finel, v. n. To come to a determination; to be informed; to discover; as, he has found his notch.

Finel'er, n. One who discovers, or meets with.

(Law.) The finder of goods is to use all due means to discover the rightful owner; and if he keep and appropriate the articles to his own use, knowing the rightful owner, or without having made due exertion to find him out, he is held guilty of larceny. Falling the rightful owner, the goods become the property of him who finds them.

rightful owner, the goods become the property of him win finds them.

Find'fault, n. A censurer; a caviller.

Find'ing, n. Discovery; act of discovering.

(Law) A verdict; as, the finding of the jury.

Find'ingn, n. pl. The tools and materials used by shoemakers.

Find'ing store, n. A shop where shoemakers' tools and materials are vended.

and materians are ventures.

Find'lay, in Ohio, a city, cap, of Hancock co., on five lines of railread, 40 m. S. of Toledo. In the center of a rich natural gas region, and contains numerous important manufacturing establishments, including glass works, machine shops, oil refineries, &c.; is also the trade center of a fine farming region. Pop. (1897) ahont 20 ((k)

Find'lay, in Fennsylvania, a township of Alleghany

—A township of Mercer co.
Find'ley's Lake, in New York, a post-office of Che

tauqua co.
Find lorn, a seaport of Scotland, co. Moray, 3 m. N and form, a scaport of Sectiand, co. Moray, 3 m. N. by K. of Forres, and 10 W. by N. of Eigin, situated on the river of same name. P. is celebrated for its salmon. Pop. abt. 1, 200.—The river P. has its source in Invernesshire, falling into the Moray Frith, after a flow of abt. 45 m.

Fine, a. [Fr. fin; Ger. fein, bright, polished, allied to Lat. finitus, limited, bounded. Cf. W. fin, a boundary.] Thin; slender; minute in size or bulk.

" Pine by degrees, and beautifully less." - Prior.

"Fine by degrees, and beautifully less." — Prior.

-Keen; smoothly sharp; as, "the finer edges of wit."

(Bacon.) — Made of fine materials; not coarse; as, fine stuffa. — Clear; pure; refined; nice; delicate; exquisite; as, "a fine perfection of the sense." (Daries.)—Subtle; artful; dexterous; sly; fraudulent; as, " to be too fine in giving testimony." — Elegant in thought or maners; very handsome; accomplished; excellent; as, a fine gentleman, a fine scholar. — Subtile; thin; tenuous; as, the fine spirits evaporate — A finable; noble; ingenuous. — Showy; splendid; as, a fine woman.

-Something that will serve a purpose; something worth contemptuous notice; as, fine feathers make fine birds. (Ironically.)

contemptuous notice; as, she reathers make she birds.
(Ironically.)
-e. a. To refine, clarify, or purify; to free from feculence
or foreign matter; as, to fine wine. — To purify; to free
from droes, as a metal.

"A place for gold, where they fine it." — Job xxviii. 1.

To make less coarse.

"It fines the grass, but makes it short, though thick." Mort (Crim. Law.) A pecuniary mulct or punishment imposed by a competent jurisdiction, and was so called because it was said finem facere de transgressione—to make an end of the transgression. The statute law has seldom determined the amount of fines to be inflicted seldom determined the amount of fines to be inflicted for particular offences, and the common law never. They vary according to the aggravation or otherwise of the offence, the quality and condition of the parties, and numerous other circumstances. This power, however, which is in the hands of the court, is far from being wholly arbitrary: for the Constitution of the U. States directs that "excessive bail shall not be required, nor excessive fines imposed, nor cruel or unusual punishment inflicted." It is not usual to inflict a larger fine than a man is able to pay without touching the implements of his livelihood; but instead thereof, to inflict a limited imprisonment.

ments of his livelihood; but instead thereof, to inflict a limited imprisonment.

(Eng. Law.) An amicable composition or agreement of a suit, either actual or fictitious, by leave of the court, by which the lands in question become or are acknowledged to be the right of one of the parties.

—v. n. To impose a pecuniary penalty for an offence; to set a fine on by judgment of a court; to punish by fine.

Fine, in New York, a post-township of St. Lawrence co.

Fine Arts, n. pl. This term is generally applied to those arts in which the artist seeks chiefly to give pleasure by the immediate impression produced on the mind by his work. These arts are thus distinguished pleasure by the immediate impression produced on the mind by his work. These arts are thus distinguished from arts which are designed to answer some practical purpose, and so have been termed useful. By some, the term fine arts, which is generally taken to include those which appeal to the eye and ear alike, has been limited to the arts of painting, sculpture, and architecture.— Antique art. In its general acceptation, the term A. A. is understood to be that of a period antecedent to the revival of the classical atudies in Western Europe, or before the risorgimento, or renaissance, of the arts from their assumed period of lethargy. There was, in fact, a distinct character about the productions of the artists of the more ancient and the more modern times, which was sufficiently marked to produce in the best of them a separate style of art, and which has led to the establishment of the schools of the so-called antique and modern styles; the medieval arts form, as it were, an interremether the schools of the so-catcal shitting and mor-ern styles; the medieval arts form, as it were, an inter-mediate class, which was as distinctly marked as any of the other styles. The antique school was distinguished by an anthropomorphism and a divination of the human

form; the mediaval school was formed upon and characterized by a species of contempt for the human figure, and an aspiration after an ideal perfection, and therefore there is something vague and undefined in its efforts to represent the objects it copied; while the modern school has united the indefiniteness of its aim with that clearness of the perception of its objects which is so marked a characteristic of its productions. The antique schools date from the dawn of civilization to the end of the tenth cent: the mediawal schools date from the the tenth cent.: the mediaval achools date from the the tenth cent.; the mediaval schools date from the tenth to the fifteenth cent.; and the modern schools have continued the traditions of the masters of art to the present times. The works of the various authors are respectively known by the names of their actual schools, and are called antique, mediaval, or modern, as they belong either to the one or the other of them.

Fime-diraw. v. a. To sew up, as a rent, so nicely that when the parts are drawn together, the rent is not perceived.

ceived.

Fine'-drawer, n. One who fine-draws.
Fine'-drawing, n. The dexterous sewing of rents.
Fineer', v. a. See VENEER.

Fine-fine-finegered, a. Accurate in work; as, a fine-fine-fine-fine-fly, adv. In minute parts; gayly; handsomely; beautifully; elegantly; very favorably; nicely; deli-

cately.

Fine'mess, n. Elegance; beauty; delicacy; niceness.—
The quality of being composed of fine materials.—
Keenness, or sharpness of edge, as of an axe.—Show; splendor; gayety of appearance.

"The fineness of clothes destroys case in wearing them."

Decay of Fineness.

—Subtlety; artfulness; ingenuity. —Purity; freedom from dross or base mixtures.

Fin'er, n. One who refines or purifies.

Fin'ery n. Show; splendor; gayety of colors or appearance; showy articles of dress; gay clothes, jewels, trinkets, &c. —The furnace in which cast-iron is converted into malleable iron.

verted into malesbie from .
Fin'ery Cin'der, n. The slag resulting from the refining of cast-iron.—See Slag.
Fine'-spokem, a. Using fine phrases.
Fine'-spum, a. Delicately interwoven; composed of fine thread.

fine thread.

—Artfully contrived; as, a fine-span theory.

Finessee, n. [Fr.] Artifice; stratagem; subtlety of contrivance to gain a point; as, the finesse of diplomacy.

—a. To use trickery or artifice.

Finesse'ing, n. The act or practice of artifice.

Finesse'ill'ing, n. The distillation of spirits from molasses.

Fine-still'ing, n. The distillation of spirits from molasses or other saccharine matter.

Fine'-stuff, n. The second coat of plaster for the walls of a room

Fines'ville, in New Jersey, a village of Warren co., on the Musconetcong Creek, about 20 m. S.S.W. of Bel-

on the Musconecong Creek, about 20 m. S.S.w. of Bervidere.

Fin'ew, \*. [A. S. finic, mouldy.] The state of being mouldy; mouldiness.

Fin'-fish, \*. (Ichthy.) A small species of whale.

Fin'-fiseded, \*a. Having palmated feet, or feet with toes connected by a membrane; web-footed; palmipedous.

Fingsal, (fin'gaul,) a personage celebrated in the poems of Ossian, who was his son. He was prince of Morven, a province of ancient Caledonia, and struggled against the power of the Romans, who were in his time the rulers of England. He also undertook warlike expeditions to the Orkneys, Ireland, and even Sweden, and was a prince of a highly chivalric character. Indeed, as painted by Ossian, he was a great hero, and the father of his people. Lived in the 3d cent.

Fingsal, (fin'gaul,) a district of Ireland, co. Dublin, where are settled the descendants of some Finns or Norwegians, who still retain a dialect and other features of their origin.

their origin.

their origin.

Fingal, a village of Upper Canada, co. of Middlessx, about 157 m. S.W. of Toronto.

Fin'gral's Cave, a curious cavern (see Figs. 298, 299) formed of basaltic columns, situate in the isle of Staffa, one of the Hebrides, on the W. coast of Scotland, 25 m. from Oban.—See Basalt.

Fin'grer, m. [A.S. and Ger., finger; Icel. finger. The root is found in Icel. fang. a seixing, a taking.] One of the five extreme parts of the hand.—One of the four extremities of the hand, as contradistinguished from the thumbs; as, "between the finger and thumb." (Shalz.) An ancient measure—the fourth part of a palm; the breadth of a finger.

An ancient measure—the fourth part of a palm; the breadth of a finger.

(Mus.) Ability in execution, particularly upon a keyed instrument; as, "a rapid or delicate finger." — Moore.

-o. a. To play, as a nusical instrument. — To touch lightly; to toy with; as, "to finger papers." (Shake.)—To touch unseasonably or thievishly; as, to finger to proceed of another. — To perform any work exquisitely with the fingers. with the fingers.
c. n. To dispose the fingers aptly to play upon a musical

instrument

in ger-board, s. [A.S.] (Mus.) The black board attached to the necks of instruments of the viol class, on which the strings are pressed by the fingers for the purpose of adjusting their lengths so as to produce the different sounds. The whole of the keys, both black and white, of a plano or organ are also so called. Finger-bowl, n. Same as Finger-class, q. r. Finger-ed, p. a. Having fingers, or parts like fingers. (Bot.) Digitate.

(Mus.) Touched or played on, as an instrument.— Marked with figures showing the fingers to be touched. Formed by pressing the fingers on a string, as a note.



Pin'ger-ferm, n. (Bot.) See ASPLENIUM.

Fin'ger-glass, n. A glass vessel to hold water for rinsing the fingers after dessert.

Fin'ger-grass, n. (Bot.) The common name of the genus Digitaria. — See Millett.

Fin'gerin, n. Worsted spun from combed wool, on a small wheel.

small wheel.

Fin gering, n. The act of touching lightly or handling;
as, the mere fingering of money.

Delicate work made with the fingers.

(Mus.) The art of arranging the fingers on any musical instrument so as to produce the required notes in an easy and graceful manner. A good method of F, is of the utmost importance to the student, as without it the difference will appear of finally and the difference will be appeared to the supplier of the difference will be appeared to the supplier of the easiest passages will often appear difficult, and the dif-ficult ones almost impracticable. Fin'ger-parted, a. (Bot.) Divided into lobes; hav-ing a fanciful resemblance to the five fingers of the human

Fin'ger-plate, a. An ornamental plate attached to the edge of a door to prevent the soiling of the paint by the hands of those passing in and out. Fin'ger-poet, a. A post having a finger to direct pas-

sengers.

Fin'ger-ring, n. An ornamental ring of gold, or other material, to be worn upon the finger.

A shall shaned like a finger

tecture, the carved ornament which surmounts the top of pinnacles, gables, canopies, mouldings, &c. It is generally in the form of foliage clustering around a knob or boss. The ornament called a poppy-head, frequently used to finish the upright sides of open pews in churches, is a F. The fine example of decorated style in Fig. 1016 shows the application of F. to a doc



Fig. 1015. — PINIAL (At King's College, Cambridge,)

Fig. 1016 shows the application of F. to a doorway.



Fin'ing, n. The act of imposing a fine.

(Manuf.) The process of retining, purifying, or clarifying turbid liquors. The simplest mode of F. is by passing the liquor through a porous substance that retains the solids and allows the clear liquid to pass through (see Filters); but this method is only applicable to particles mechanically suspended in a limpid liquid. When the liquid contains much agriculture or other matter, that readily closs the filter some other means of F. When the liquid contains mucilaginous or other matter, that readily clogs the filter, some other means of *F*, must be used. Such is the case with all malt liquors and most wines when turbid. When in good condition, these do not usually require *F*, as the suspended matter agglomerates, and sinks to the bottom shortly after the fermentation is completed. When this does not take place, some means of promoting such action are usually adopted. One of the simplest is to add soluble albumen, such as white of egg, to a portion of the liquid, and after the tother than the such as white of the liquid. Upon the application of heat, the albumen coagulates and contracts from its diffusion into a scum, enveloping and drawing together into the whole of the liquid. Upon the application of heat, the albumen coagulates and contracts from its diffusion into a scum, enveloping and drawing together the suspended matter. The scum is then easily removed. This method is adopted for syrups and other liquids that may be heated without mischief. In making clear soups, the albumen of the meat performs this function. As alcohol coagulates albumen, it may be used for F. wines and cordials without the application of heat. It is generally used for red wines. Malt liquors are usually fined by means of gelatine, either singlass or cheaper substitutes being used. One pound of isinglass is soaked in three or four pints of water, or sour beer, then more sour liquor added as the isinglass swells, until it amounts to about a gallon. The felly thus formed is next dissolved in seven or eight gallons of the liquor to be fined. This solution, having the consistence of a syrup, is called brever's finings, and about a pint to a pint and a half is added to a barrel of also or porter, or to a hogshead of cider or wine. The action of this depends upon the combination of the gelatine with the astringent matter (kamic acid) of the liquor forming thereby an insoluble solid, which stake action of this depends upon the combination of the gela-tine with the astringent matter (tannic acid) of the liquor, forming thereby an insoluble solid, which sinks to the bottom, and carries with it, like the coagulating albumen, the suspended matter; but as the flavor of malt liquors partly depends upon the astringents they contain, the F. affects the flavor: the astringents also help to preserve the liquor, and hence their removal is in this respect disadvantageous. Malt liquors thus fined do not "stand well on draught." The use of gelatine for F. red wines is objectionable, as in most of these the astringent flavor is an esteemed quality, and therefore albumen is preferred.—There are other methods of F., but all of them are more or less objectionable. Liquors that are unusually difficult to fine are called shabbors by that are unusually difficult to fine are called stubbo

that are unusually difficult to fine are called stubborn by coopers and collarmen.

—n.pl. A preparation of isinglass, gelatine, or other substances, for clarifying beer, syrup of sugar, &c.
Fin'ing-pot, n. A vessel used in refining metals.
Fin'ish, v. a. [Fr. finir, p. pr. finisant; Lat. finio, finitus.] To end; to terminate; to arrive at the end of, in execution or performance; to complete; to bring to an end; to put an end to; to close; to conclude; as, to finish a day's work.

"Herologily hath finish'd a life herolo."— Million.

To perfect; to accomplish; to polish to the degree of excellence intended.

"Itis a finish'd work, and perfect in its kind." - Blace

—n. That which finishes, completes, or perfects; the last touch of polish or excellence; as, there's a degree of finish about the picture.
Finished, (finisht,) p. a. Complete; perfect; polished to the highest degree of excellence; as, a finished general perfect.

Finished work. (Mach.) Work, whether complete or

uncomplete, that is made smooth or polished.
'in'isher, n. One who finishes, or completely performs; one who, or that which, puts an end to; one who makes complete or perfect.

"Death a finisher of all his troubles." (Mach.) A person who gives the finishing strokes or touches to work.

(Mach.) A person who gives the finishing strokes or touches to work.

Finistere, the extreme W. dep. of France, formerly a part of the prov. Brittany, between Lat. 47° 48′ and 48° 46′ N. and Lon. 3° 26′ and 4° 50′ W., surrounded on three sides by the Atlantic and British Channel, and having R. the deps. Côtes-du. Nord and Morbihan. Length, N. to S., 65 m.; breadth, abt. 56 m.; area, 2,600 sq. m., or 672,112 hectares. The coasts of this dep. are generally steep, rocky, and indented with many bays and harbory, some of which, as that of Brest, are of the first excellence. Numerous small islands skirt the coast. Surface. Diversified, two chains of hills running through the dep. E. to W. Sul. Various. Climate. Humid, and subject to tempests and fogs. Prod. Agriculture is in a backward state, although eats, rye, wheat, barley, flax, rained and potatoes are algorized. Pasturage is excellent, rearing large numbers of cattle. The condition of the farmers is, on the whole, proeperous. Cider is, for all classes, the favorite and almost only drink. The fisheric syleid a good return. Min. The mines of lead at leases, the favorite and almost only drink. The fisheric syleid a good return. Min. The mines of lead at leases, the favorite and almost only drink. The fisheric syleid a good return. Min. The mines of lead at leases, the favorite and almost only drink. The fisheric syleid a good return. Min. The mines of lead at leases, the favorite and almost only drink. The fisheric syleid a good return. Min. The mines of lead at leases, the favorite and almost only drink. The fisheric syleid a good return. Min. The mines of lead at leases, the favorite and almost only drink. The fisheric syleid a good return. Min. The mines of lead at leases, the favorite and almost only drink. The fisheric syleid a good return. Min. The mines of lead at leases, the favorite and almost only drink. The fisheric syleid a good return. Min. The mines of lead at leases, the favorite and almost only drink. The fisheric syleid a good return. Min. The mine

finement within certain boundaries; as, "Anileness of

finement within certain boundaries; as, "Anileness of natural powers."

Finks/burgh, in Maryland, a post-village of Carroll co., abt. 50 m.N.W. of Annapolis.

Fin land, (Grand-Duch of,) (called by the natives, Suomen-maa, "land of marshes,") a country of N. Europe, including (with the exception of part of Lapland) the extreme N.W. portion of the Russian empire. It lies between Lat. 50° 50° and 70° 25° N., and Lon. 21° and 22° K.; having N. Russian Lapland; E. the govts. of Archangel and Olonetz; S. Lake Ladoga, the govt. of St. Petersburg, and the Gulf of Finland; and W. Sweden and the Gulf of Bothnia. Length, N.N.E. and S. S.W., 600 m.; average breadth abt. 240 m. Tuda crac, 136,000 Eng. sq. m.; divided into 8 provs. Drsc. F. consists principally of a table-land from 400 to 600 feet above the level of the sea, and interspersed with hills of no great elevation. In the N., however, the Manselka Mountains have an average height of between 3,000 and 4,000 ft. The coasts, particularly on the S., are surrounded by a vast number of rocky slets, separated from the main-land and from each other by intricate and narrow channels, rendering the shores of the country easy of defence in case of hostile attack by sea. But the chief natural feature of F. is its myriads of lakes, which spread like a network over a large proportion of its surface; some of them being of very considerable size. The greater number of these are in the S. and E.; they have frequent communications with each other, and generally abound with islands. There are numerous rivers, but none of much importance. Climate, rigorous. Even in the S. the winter lasts from 6 to 7 months, and in the N. from 8 to 9 months. Dense fogs are very frequent; heavy rains take place in autumn, and in May and June the thaws put a stop to nearly all travelling. In the N. the sun is absent during Dec. and Jan.; but during the short summer, while that tuminary is almost perpetually above the horizon, the heat is often very great; and near Ulesborg, and ton, copper, marble, sulph

SICCOMMUN. 199, SELLINGUAGE.

Fin'lamd, GULF OF, one of the great arms of the Baltic sea, extending E. and N. between Lat. 58° 40' and 60° 40°, and between Lon. 23° and 30° 10° E. It has a length of between 25° and 30° 10° E. It has a length of between 25° and 30° 10° E. su, and between Lon. 23° and 30° 10° E. It has a length of 260 miles, by a varying width of between 25 and 90 miles. Numerous islands dot its waters, the principal of which is Cutlin Ostrof, or Kotlinoi, upon which the great Russian arsenal of Cronstatt (q.v.) is situated. Fin less, a. Without fins; having no fins. Fin less, in Misseri, a township of Christian co.

—A township of Douglas co.

—A village and township of Wahring on about 24° —

A village and township of Webster co., about 24 m. E.S.E. of Springfield.

E.S. of Springfield.
Finley, or Findley, in Ohio. See Findlay.
Finley Station, in N. Jersey, a P.O. of Cumberland co.
Finley Ville, in Fransylvania, a post-village of Washington co., abt. 180 m. S.W. of Harrisburg.
Fin'mark, [Nor. Finmarkens,] an extensive prov. or
arot of Norway, forming the most N. portion of contiarot of Norway, forming the most N. portion of continental Europe, and lying between Russian Lapland and the Arctic Ocean. Area, estim. at 27,500 sq. m. Desc. Bleak and sterile, but yielding crops of rye and potatoes. The inhabitants are principally engaged in the codfisheries. Pop. Finns and Lapps, estim. at 22,000.
Finns., n. (Geog.) A native or inhabitant of Finland;

a Fin.

Finn, a river of Ireland, rising in co. Donegal, which after a course of 24 m. empties into Lough Foyle, near Lifford.

siter a course of 2s in: emptes into Lough Pyle, least Lifford.

Fin'mam, or Fin'don, a fishing-village of Scotland, co. Kincardine, 6 m. 8. of Aberdeen. It is a poor place, but has been long celebrated for its preparation of smoked haddocks, known, far and wide, as "Finnan haddocks" or "haddles." This delicacy is prepared by gutting, cleaning, splitting, and smoking the fish. The most particular part of the process is the smoking, which should be done by the green branches of the fir-tree, or still better, spruce; thus communicating to the fish its peculiar odor and bright yellow color. A somewhat similar result may be effected by the use of pyroligneous acid; but nothing else but the fir has ever been used for the purpose at F. and other places on the coast. The genuine Finnan haddock should never be kept above two, or, at the furthest, three days after it has been cured, should be roasted by a very quick fire, and served up immediately. mediately. Digitized by GOOGLE

Finmed, (finid,) a. With a broad edge on either side, as a plough.
Finimer, n. Same as Finback, q. r.
Finimikin, n. [Prov. Eng. See Finikin.] A sort of

Fin'mikin, n. [Prov. Eng. See Finikin.] A sort of crested pigeon. Fin'mish, a. (Geog.) Pertaining or relating to Finland. Fin'mish Language and Literature. The language of Finland forms one of the chief branches of the Uralo-Altaic family, being, with the Esthomic and Lappish collaterals, kindred to the language of the Urgirans, or Eastern Turks, Osmanli Turks, Samoyedes, and other Tartars, Magyars, Mongols, and Tunguses, whose chief branch are the Mantchoos. All these constitute the so-called Scythic, or Turanian, or Allophylic family. The Finnish comprises a number of dialects, of which the principal are the lower, which is used along the coasts, its Abo variety being that which is used in books; and the upper, which is spoken in the inland regions, divided into the sub-dialects of Ulea and Viborg. It is written in Latin or German characters; but the letters b, c, d, f, g occur only in a few foreign words, the coasta, its abo variety being that which is used in books; and the upper, which is spoken in the inland regions, divided into the sub-dialects of Ulea and Viborg. It is written in Latin or German characters; but the letters b, c, d, f, g occur only in a few foreign words, and q is obsolete. It is, however, rich in vowel sounds, having no fewer than eight, d and b standing at the end of the siphabet. It has also many diphthongs, and, according to Rask, it has the most harmonious of tongues. The nouns have fourteen cases, which are expressed by suffixes or post-positions to the nominative, and plurality is denoted for the nominative by suffixing t, and for the other cases by inserting t before their endings. There are only two declensions, the one for nouns ending in a vowel, the other for those ending in a consonant. The declension of adjectives is resentially the same as that of substantives, while the comparative ends in who and the superlative in in. There are no grammatic genders, the sexes being indicated either by distinct words or by epithets. The verbs have only two simple tenses,—the present and the past, the others being periphrastic. Their conjugation is complicated, their voices, moods, and other nice shades of meaning being expressed by certain syllables inserted between the root and the personal suffixes. There are no separate particles, and all their prepositions are placed at the end of the words to which they are related. From the number of syllables thus brought together, some of the words are of great length (from eight to ten, and sometimes even as many as eighteen syllables); but in this way the most complicated ideas may often be expressed in one word, which would require several in most other languages. The construction is extremely free, without endangering the clearness of the sense. There can be little doubt, from the character and construction of the language, that this is not only one of the most ancient, but one of the purest of the whole Asintic-European family, being less mixed

secondary class of wool obtained from Merino sneep.

Finns'burry, a parliamentary borough of England, forming a division of London, the British metropolis, and lying between Hackney on the N., the Tower Hamlets on the E., Marylebone on the W., and the city of London and liberties of Westminster on the S.

Fin'scale, n. (2001.) An English provincialism for

the Rupp, q. v.

Finster-Aar horn, the highest peak of the Bernese
Alps. in Switzerland, between Berne and the Valais.
Height, 14,020 feet.

Alps, in Switzerland, between Berne and the Valais. Height, 14,020 feet.

Fin-toed, (fn'töd.) a. Palmiped; palmated; having a membrane between the toes, as aquatic fowls.

Fio'ra, a river of S. Italy, having its source near Mt. Amiata, and embouching into the Mediterranean near Civita Vecchia, after a course of 40 m.

Fiord, (fyörd, pronounced in one syllable.) [Dan. an Nor: Icel. förd.] (Geog.) An inlet of the sea, generally long, narrow, and deep:—a term applied in Scandinavian countries to any bay, creek, or arm of the sea which extends inland, and sometimes used to express an inland lake or considerable sheet of water; as, Sogne Fiord. The F. of Iceland. like those which indent the granitic coasts of Norway, were formed by immense flows of lava, raised and rent by subterraneous forces. These immense crevasses raising their huge beds to a great height above the level of the sea, present, through the lapse and disintegration of the rock, the appearance of crenellated walls, of huge pyramids, ruins, and monuments. In the southern part of the island, the caverns,

basaltic colonnades, and natural arrhes of Stapi (Fig. 1017) remind one of the strangest formations of Ireland, and the beautiful grotto of Antrim. These guifs, often but half a mile in width, extend as far as 5 or 6 miles into the mountains, where they are surrounded on all sides by perpendicular rocks, rising to an immense



Fig. 1017. - NATURAL ARCH OF STAFI, (Iceland.)

Fig. 1017.—NATURAL ARCH OF STAPI, (Iceland.)
height. "The upper half of these gigantic walls," says M. Krug de Nidda, in his remarkable work on Iceland, "covered with eternal snow, is concealed among dense clouds; —there one finds no further trace of life, all is death and solitude; nothing human is found amid these masses heaped together by nature; no forests nor trees; rocks bare, and generally too steep to give hold to the humblest vegetation; no other sound than the breaking of the sea, repeated by the echoes; no other motion than that of the snow-fed torrents, which furrow the sides of the rocks, like ribbons of silver." "Toward midnight," adds M. Robert, (Travels in Iceland.) "at the season when, in northern countries, the sun is always above the horizon, and when the air is perfectly calm and pure, there reigns in the depths of these fords an indefinable, mysterious light, which I have seen nowhere but in Iceland; one might call them so many sanctuaries where nature is at rest."

Fiorenguella, (feorain-socola) a town of Central Italy, prov. Piacenza, on the Lardi, 15 m. S.E. of Placenza. Manuf. Unimportant. Cardinal Alberoni was 2. here. Pop. 6,475.—Also, the name of several other Italian towns, too small to notice.

Fi'erite, s. (Min.) A silicious incrustation, occurring near Santa Fiora, Italy, also in Ischia and at the Solfatera near Naples in globular, botryoidal and stalactitic concretions, pearly in lustre.

Fip'penamy-bit, n. A silver coin of the value of five pence sterling; also, applied, occasionally, to the sum of five pence in general.

Fir, s. [A.S. furh; Ger. fuhre, pine; Scot. fr; Danfyrr; allied to A. S. fyr, and Gr. pyr, fire.] (Bot.) The common name of a large number of coniferous trees, of a pyramidal form and elegant proportions. This name is often used in a sense co-extensive with the widest sense of the word Pinz (r. v.), and therefore so as to include a large option of the Pinzaeza (conifere), or at least the whole of the Linnean genus Pinus. But the



Fig. 1018. — SILVER FIR, (Abies picea.)

name fir is also often used in a more restricted significa-tion, and the trees so designated are those forming the genus Abies of some authors, Abies and Picea of others, which the greater humber of botanists have now agreed in separating from Pirus. In the classification of Lind-ley, all the firs are included in the genus Abies. The common Silvers Fir, Abies picea, has erect cylindrical cones, 5-6 inches long, and two-rowed leaves, with two white lines upon the under side. It forms considera-

ble woods upon the mountains of Central Europe and of the north of Asia, and attains a height of 180-180 feet, and an age of 300 years. The wood is white, contains little resin, is very soft and light, and is employed for the ordinary purposes of coopers, turners, and joiners, and in ship and house carpentry, also for making band-boxes, and for many fine purposes, especially for the sounding-boards of musical instruments. It yields the beautiful clear turpentine known as Strasburg Turpentine. Very similar to the Silver Fir, but generally of much smaller size, and indeed seldom much above 40 feet in height, is the Baimor-Gillead Fir (Abics balsamea), a native of this country, from Virginia to Canada. The wood is of little value, but the tree yields the Canada balsam. (See Turpenning.) The other important species of firs will be seen under their particular names.

names.

Fire, n. [A.S. fyr; O. Sax. and O. Ger. fur; Fris. for; Ger. feuer; Dan. ruur; akin to Gr. pyr; Goth. funa = Sansk. parana, pure, pāraka, fire — pā, to purify.] The great agent of purification; that one of the so-called four elements which burns, inflames, warms, or heats; the igneous principle; heat and light emanating visibly, perceptibly, and simultaneously from any body; caloric the effect of combustion.

Then air succeeds, in lightness next to fire." - Dryder

The burning of fuel upon a hearth: a conflagration: a burning; a flame; as, make a good fire, the place took fire, &c. — Light; lustre; aplendor; as, "Stars, hide your fires!" (Shaks.) — Torture by burning; the punishment of the impenitent in another state; trouble; severe ordeal; affliction.

"Like a pale martyr in his shirt of fire." - Alex. Se -Ardor of temper; violence of passion; ardent affection; the passion of love; ardor; heat of the feelings.

"The fire of love in youthful blood, but for a moment be

Liveliness of imagination; vigor of fancy; intellectual brightness and activity; animation; force of sentiment or expression; intellectual and moral enthusiasm; as, the poet's fire.

"Exact Racine, and Corneille's noble fire, Taught us that France had something to admire." — Pope

"Exact Eacine, and Cornelle's noble fire.

(Hitt.) The terrific energy of fire, the most important agent of civilization, the similarity of its effects with that of the sun, its intimate connection with light, its terrible and yet genial power, and the beauty of its changeful flame, easily account for the reverence in which it was held in ancient times. At a period when cause and effect, form and essence, were not distinctly separated, fire became an object of religious veneration, a distinguished element in mythology, an expressive symbol in poetry, and an important agent in the systems of cosmogony. It gained a place among the elements, and for a long time was believed to be a constituent part in the composition of all bodies, and to require only the concurrence of favorable circumstances to develop its activity. At a later period, fire, under the name of phlogiston, was considered to be the source of all chemical action. At the present day, the phenomena which were formerly ascribed to fire are attributed to the effects of heat.—See Commerton and Haar.

(Mil.) A discharge of musketry or small arms; as, the column advanced under a heavy fire.—Direct fire.

(Mil.) See Direct.—Greek fire. See Grank Fire.—Horisontal fire. (Mil.) See Hounsontal.—On fire. Burning; in a state of combustion; as, a house on fire.—Plunging fire. (Mil.) See Plunging.—Russing fire.

(Mil.) The rapid, rattling discharge of musketry kept up in succession by troops.

To set on fire, or a-fire, to cause to burn; to inflame; as, "Desire may set her heart a-fire."—Cureso.—c. a. To set on fire; to kindle: to cause to burn, or enter into a state of combustion; as, to fire a chimney, to fire a city, &c.

"The aspiring routh that fired th' Ephecian dome.

to fire a city, &c.

The aspiring youth that fired th' Ephesian dome Outlives in fame the plous fool that raised it."—Colley Claber.

Outlives in fame the plous foot that raised it."—Colleg Cibber.

To inflame; to excite; to irritate, as the passions; as, fired with anger.—To influe animation into; to give life and spirit to; as, to fire the enthusiasm of men.—To cause to explode; to discharge; to ignite the charge of a gun or fire-arm; as, fire blank cartridge.—s. To take fire; to be kindled.—To be excited, irritated, or inflamed with passion.—To discharge artillery or fire-arms; as, the firing could be heard at a great distance.

"The fainting Dutch remotely fire."—To fire up, to allow once temper to burst forth; to grow angry; to get into a passion. get into a passion.

He fired up, and stood vigorously on his defence."-Me

Fire'-alarm, s. A signal of alarm given on the break-ing out of a conflagration.—An apparatus for giving alarm of fire.

ing out of a confiagration.—An apparatus for giving alarm of fire.

Fire-anni'hilator, n. A machine for extinguishing fires, invented by Mr. Phillips, and bearing his name. It consists of a case containing water, within which is a smaller case filled with a mixture of chlorate of potents and sugar. Dipping into the latter is a small tube containing sulphuric acid. When this tube is broken, the chlorate of potash and sugar become ignited, throwing off large quantities of mixed gases, which are non-supporters of combustion. The action is maintained by the water in the outer case becoming heated. This contrivance was never of much practical use. Later and much more successful devices will be considered under Fire Extinguisher (g. w).

Fire'-arms, n. An arm or weapon which expels its charge by the explosive charge of gunpowder; usually in the plural). See Arm, Artillery, Cannon, Gun, &c.

Fire'-arrow, n. A small arrow or dart of iron,

furnished with a combustible charge for firing the sails, rigzing, &c. of ships.

Fire'-bails, m. (Mt.) A projectile occasionally discharged from guns or mortars, for the purpose either of setting fire to, or merely illuminating some work, against which hostile operations are directed. The usual ingredients are, — meeled powder, 2; saltpetre, 1½; sulphur, 1; rusin, 1; turpentine, 2½; with pitch, tow, naphtha, &c., as circumstances dictate. The use of fire-balls has, however, been in great measure superseded by the introduction of rockets, q. v.

(Metor.) See Markon.

Fire-balloom', m. (Pyrolech.) A balloon sent up at night charged with fire-work, &c., which burst out into ignition at a certain height.

Fire-bar Frame, m. (Mach.) In locomotive-engines, a frame made to fit the fire-box on which the fire-bar rest; a plan of dropping all the bars at once by a movable frame, acted on by a lever and handle outside the fire-box, has been frequently tried, but the action of the intense heat soon puts it out of working-order.

Fire'-barrel, m. (Naval.) A hollow cylindrical machine, containing combustible matter, used on board fire-ships.

Fire'-barrs, m. pl. (Mach.) In locomotive engines, wedge-shaped iron bars fitted to the fire-box with the thick side uppermost, to support the fire; the ends rest on a frame; they are inclined inward, with an air space between each, to promote combustion, and are joined at one end, and supported by a rod at the other, so that the rod being withdrawn, the bars fall, and the fire-box is emptied.

we may the rod being withdrawn, the bars fall, and the fire-bavin, n. (Naral.) A bundle of brushwood used in fire-slips to kindle the enemy's salls, rigging, &c.

Fire'-blast, n. A disease of trees, plants, &c., whereby they present an appearance as of having been scorched by fire.

e'-board, n. A board used to close the orifice of a

chimney during summer.

Pire'-bote, n. (Eng. Law.) A tenant's lawful allow ance of fuel.

ance of fuel.

Fire'-box, s. (Mach.) In locomotive-engines, the box (usually made of copper) into which the fire is placed. The outside is of iron, separated from the copper firebox by a space of about 3 inches all around for water.—Fire-box door, the door opening into the fire-box, facing the locomotive tender, by which coke is supplied to the fire.—Fire-box partition, in large fire-boxes a division is made in the box, into which water is admitted; this division is about the height of the fire-box door, and divides the fire into two parts in a locomotive-mention. division is about the height of the fire-box door, and divides the fire into two parts in a locomotive-engine, thereby increasing the heating surface of the fire-box.— Fire-box stays, deep strong iron stays bolted to the top of the copper fire-box, to enable it to resist the pressure of the steam; round copper or iron stays are also used to connect the outside shell to the inside box, in the proportion of about one stay to every 4 square inches of flat surface.

Fire'-bramed, n. A piece of wood kindled, or on fire.

An incendiary; one who excites factious assemblages to action, or causes mischief, contention, or disorder.

"I have eased my thee-in-law's boars of a fre-bread to set

"I have eased my father in-law's house of a fire-brand to set my own house in a flame."—L' Estrange.

"I have eased my father-in-law's house of a fire-brand to set my ewn house in a lians."—L'Estrange.

Fire'-brick, n. A brick capable of sustaining, without fusion, the extreme action of fire. They are used for lining furnaces, and for all kinds of brick-work exposed to intense heat which would melt common bricks. They are made from a natural compound of silica and alumina, which, when free from lime and other fluxes, is infusible under the greatest heat to which it can be subjected. Oxide of iron, however, which is present in most clays, readers the clay fusible when the silica and alumina are nearly in equal proportions, and those fire-clays are the best in which the silica is greatly in excess, broken crucibles, glass-house pots, and old F. B., ground to powder, are substituted for the common silicious and used in the ordinary processes of brick-making, but which, in this case, would be injurious, as having a tendency to render the clay fusible. Fire-clay being an expensive criticle, it is usual, when making F. B. at a distance from mines, to mix with it burnt clay, for the sake of economizing the clay and diminishing its contraction.

Fire'-bridge, a. A partitioned space in furnaces, &c., over which the flame passes to the flues.

Fire'-brief, a. A circular appeal for help for sufferers

by nre.

Fire'-brigade, z. A body of men organized to manage an engine, ladders, &c., in the extinguishing of fires.

Fire'-brunh, z. A brush used for sweeping hearths, &c.

— A bucket used on shipboard, &c., to carry water for

— A bucket used on shipboard, &c., to carry water for putting out fires.

— A bucket used on shipboard, &c., to carry water for putting out fires.

— Pire'-clay, n. (Min.) A clay capable of bearing great heat without melting or vitrifying. F. C. should be nearly pure silicate of alumina, and contain no iron, lime, or magnesia. At Baltimore, fire-bricks are manufactured from the tertiary clays of eastern Maryland. In England a slate clay from the coal series is employed. — See BRICK.

Pire'-coek, n. A cock or spout to allow water to escape for putting out a fire.

Pire'-coekpamy, n. A company of persons employed in the management of a fire-ongine.

Pire'-crack er, n. (Pyrotech.) Same as CRACKER, q. c.

Pire'-damp, n. A miner's term for the explosive mixture of light carburetted hydrogen and air found in coalmines; named in contradistinction to choke-damp, which chokes or extinguishes flame. — See Marsi-cas.

furnished with a combustible charge for firing the sails, righting, &c. of ships.

Fire'-dog, n. See Andreon.

A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent; as, "the rustling of the fire-drake, n. A flery dragon or serpent at a furnace.

at a furnace, s. A kind of dress or body-covering which enables the wearer to approach with impunity, and even to pass through, a fierce flame, to rescue lives or property, or to extinguish fire.

Fire-eater, n. One who pretends to eat fire; — hence, a cant term for a fighting character, duellist, or desperado. Fire-engime, n. A machine contrived for the purpose of extinguishing fires by throwing water upon them from a jet. Previous to the invention of the modern fire-engine, there were various modes of extinguishing fires. Juvenal and Pliny both mention methods, and Pliny the younger speaks of nives (siphones) being used to nut younger speaks of pipes (siphones) being used to put out fires. Augustus appointed seven bands of firemen at Rome, each of which had the care of two divisions of out fires. Augustus appointed seven bands of firemen at Rome, each of which had the care of two divisions of the city; each band had a captain, and at the head of the whole body was the prefect of the watch. The earliest account, however, of any machine resembling the modern fire-engine is given by a Jesuit named Caspar Schott, in 1657. It was a sort of force-pump, and was worked by 28 men; it threw a stream of water, an inch in diameter, to the height of 80 feet. After that time, the use of fire-engines became more general; but two important parts of the machine were not introduced till a later period; viz., the flexible hose and the air-chamber. The rise of flexible tubes is obvious, and the air-chamber, which depends for its value on the increased elasticity of the air when compressed into less than its usual bulk, gives a steady and uninterrupted stream of water. The use of leathern pipes was first devised by two natives of Holland, named Vanderheide, in 1672. After the invention of the air-chamber, all new improvements were merely in details. The modern engine consists generally of two vertical double-acting (or sometimes 4 single-acting) force-pumps, worked by means of long brakes, that enable many men to assist in using them. The pumps discharge into one common reservoir, the upper part of which contains air that by its elacticity causes the water to flow in a uniform stream through the discharge-tipe. From this pipe the water is conducted any desired distance through the leathern hose, and discharged through a strong tapering metallic pipe, that is held in the land to direct the stream upon the fire. A suction-pipe is attached to the lower



ticity causes the water to flow in a uniform stream through the discharge-pipe. From this pipe the water to conducted any desired distance through the leathern hose, and discharged through a strong tapering metallic his land to direct the stream upon the firs.

A suction-pipe is at the stream upon the firs.

A suction-pipe is at the stream of which is not constructed for interest of the pump when a necessary, but it is not required when the constructed for it and Fig. 1019.—STEAM FIRE-ENGIN. However, the stream of water introduction was a ranged horizontally, and men at one the top and work as in rowing a box. Some engines have then pumps a store material to the corridor, as a first port to different who served without pay, but were exempted from military duty. Such companies are now found only in towns and small cities, the larger cities having difficult to the first F.E. of this class was made by first most contribution of the preformance than the older companies. In addition to the first-engines, there are employed hose carriages, carrying a large first port tone of the carriage, carrying a large first port tone of the carriage, carrying a large first port tone of the carriage, carrying a large first port tone of the carriage, carrying a large first port tone of the carriage, carrying a large in the carriage and the preformance than the older companies in addition to the first F.E. of this class was made by first Britanian to the carriage of t

an automatic arrangement when the alarm is given, the harness is so arranged as to fall on their tacks, and within a minute from the sounding of the alarm they are harnessed to the eugine. The men spring to their places, the doors fly open, and the eugine is away in an almost incredibly short of time.

Fire-escape, a. Any machine or apparatus for the purpose of enabling persons to escape from the upper stories of houses on fire. The many contrivances which have been proposed for accomplishing this desirable object are of two kinds: the first kind comprising those by means of which the escape is effected without external aid, and the second those requiring the assistance of persons without. Of the first kind the most obvious is a rope-ladder, which may be kept in a sleeping-apartor persons without. Of the first kind the most obvious is a rope-ladder, which may be kept in a sleeping-apartment, and used, when needed, by fastening one end of it to a window-sill or bedpoat. But unfortunately contrivances of this kind can rarely be of any use; for supposing them at hand when the alarm of danger is given, few persons

ew persons an command the coolness and attention which are requisite for fixing and adjusting the apparatus; and even then it is only the strong and active who could safely descend by means such from a considerable height. —In escapes of the second kind, the object is to en-able persons without to establish speed-



Fire'-kilm, (-kil,) s. A kiln or oven for baking or cal-cining anything. Fire'less, a. Without fire; wanting fire; as, a fireless

FIRE

Fire'lock, n. A musket, or other small arm, having a lock for igniting the charge by means of a flint and steel.

"Prime all your frelocks, fasten well the stake." Geg.

Fire'man, n.; pl. Firemen. A man whose business is
to extinguish fires; a member of a fire-brigade or com-

pany.
"The fremen sweats beneath his leathern casque." One who tends and feeds the fire in the furnace of a steam-engine.

Fire'-master, n. An artillery officer who looks after the preparation of rockets and other pyrotechnic com-

positions. (R.)

Fire new, a. Brand-new; fresh from the forge-fire;

positions. (2.)

Fire'-mew, a. Brand-new; fresh from the forge-fire; bright.

"Some excellent jests, fre-new from the mint."—Shaks.

Fire'-office, a. The office where the business of a fire-insurance company is carried on.

Fire'-pan, a. A pan for holding or carrying fire; — particularly the priming-hole in a gun or musket.

Fire'place, a. (Arch.) The name given to the square opening that is left in the wall of a house for the reception of a stove or grate. It is formed in a shallow pier or abutment of masonry, which generally projects from the face of the wall into the apartment, having rece-ses on either side of it. The upright sides of the opening are called the jambs, and the head, which is usually in the form of a cambered arch, is termed the mankel. A broad flat stone is fixed immediately under the jambs, which, with another stone of a similar kind that is set directly in froat of it, and on which the fender rests, is called the hearth; sometimes, however, the stone under the jambs is called the slab, while the term hearth is applied to that which lies immediately in front of them. The wide square cavity inside the wall, and just above the fireplace, is gradually contracted in size until it becomes a small passage, which is termed the chimney, or face. This contraction is generally called the gathering. The width of the fireplace depends on the size of the grate that it is intended to receive, varying in ordinary apartments from 18 inches to 3 feet 6 inches. Its height is never less than 3 feet. It is surrounded by the



(From Aydon Castle, Northumberland.)

chimney-piece, consisting of pieces of wood, slate, or mar-ble, fitted together in the form of a frame. The vertical pieces on either side are termed the jambs, and the hor-izontal piece, which the jambs support, is called the lintel. The lintel is surmounted by a broad shelf in the same material, called the manti-piece. The chimney-piece, whether in wood or marble, is frequently carved, and may be made a very handsome and effective archi-tectural feature in an apartment. When chimneys were first introduced, the fire was kindled on the hearth, the finel being supported on andirons or fire-dogs made of tectural feature in an apartment. When chimneys were first introduced, the fire was kindied on the hearth, the fuel being supported on andirons, or fire-dogs, made of metal, and often elaborately ornamented. The opening above the hearth was long without any chimney-piece or ornamental dressing round it; while a projection, somewhat resembling a pent-house, or porch over a door, was brought forward from the wail of the apartment, directly over the fire-place, to act as a funnel, and to prevent the escape of the smoke into the apartment, to the discomfort of the inmates. But when greater attention was paid to domestic architecture, the chimney-piece was introduced as an embellishment, and in mangions built in the 16th century it consisted of a mass of carving and panels, which was generally carried up as far as the ceiling. The mantel-piece was introduced at a subsequent period, when the practice of adorning the wall above the fireplace with carving was discontinued. It was at first fixed at the height of 5 or 6 feet above the floor of the apartment, and was extremely sarrow; in the present day it assumes the form of a broad thick slao, and projects considerably beyond the chimney-piece. Recent domestic architecture displays a revival of the large, ornamental fire-place, and also of the smaller and more practical form of the "low-down" grates, the latter employing coal or gas for fuel.

Fire'-plusg, s. A policy of fire insurance. See Insurance.

Fire'-pot, s. (Mil.) A small earthen pot or jar filled with a combustible composition, to be thrown among an enemy; a stink-pot. (These missiles are extensively used by the Chinese, Japanese, and Malays.)

—The part of a furnace for the reception of fire.

Fire'-proof, a. Proof against fire; incombustible; asbestine; as, a fire-proof safe or closet, a fire-proof building.

ablestine; as, a preprior sale or closes, a proprior, building.

Fire'-proofing, n. Art or process of making fre-proof; also, the materials used therefor.

Fire'-n. An incendiary; one who sets anything on fire.

Fire'-screen, n. A movable screen to obviate the effects of too much light or heat from the fire; a fire-

guard.

(Naut.) A baize screen placed in the gangway leading to the powder-magazine in a ship of war.

Fire'-set, n. A complete set of fire-irons.

Fire'-ship, n. (Naul.) A resel filled with combustible matter to be sent against the shipping of an enemy lying at anchor in rivers or roadteads, after having been set on fire in several places. They were frequently used during the wars of the last two centuries and the companeous of the researt one, and often record form. mencement of the present one, and often proved formi-dable engines of destruction. They are not so dangerous now, as one or two well-directed shots from one of the now, as one or two well-directed shots from one of the heavy guns now carried by ships of war would soon shatter to atoms any of the small craft that are generally used for the purpose. An attack with F. S. was always made on a dark, foggy night, which would allow of their being brought into close proximity to the vessels it was desired to destroy. The wind and current being favorable, the helm of each was set in such a manner as lavorable, the helm of each was set in such a manner as to cause them to drift right against the enemy's ships when at anchor. When they had been brought as closely as possible to the doomed shipping, the crew lighted the fuses attached to the combustible matter on board, and took to their boats to get clear of the approaching

and took to their boats to get clear of the approaching explosion and confagration.

Fire'-showel, (\*huv',) n. An instrument for shovelling coals on, or removing them from, a fire.

Fire'side, n. A place near the fire or hearth; — hence, home; domestic life; the family circle; retirement; as, "Winter talk by the fireids."

Fire'-steel, n. A steel used for striking fire from a fiint.

Fire'-steel, n. A lighted stick or brand; as, children playing with fire-sticks.

A kind of sandstone which bears a

playing with fre-sticks.

Pire'-stone, n. A kind of sandstone which bears a high degree of heat.

Fire'-surface, n. See Heaving-surface.

Fire'-telegraph, n. A telegraph employed to circulate intelligence of a fire throughout different parts of

a city.

Fire'-tubes, n. pl. (Mach.) Tube-flues through which
the fire passes, for obtaining a large heating-surface,
fixed longitudinally in the middle compartment of a
locomotive-engine, between the fire-box and amoke-box.

Fire'-ward, Fire-ward'en, n. An officer who formerly directed operations in the extinguishing of fires.

Fire'-weed, n. (Bot.) See ERECETTES.

merly directed operations in the extinguishing of nres. Fire'-weed, n. (Bot.) See Errcetter.
Fire'-weed, n. Wood used for fuel.
Fire'-work, n. (Usually in the pl.) See Pyrotechnics.
Fire'-worker, n. An artillery-officer next in rank to the Fire-masten, q. v. (n.)
Fire'-worship, n. The worship of fire, prevailing chiefly in Persia, and among the Parsees of Hindostan.
— See Guerres.

Fire'-worshipper, n. One who worships fire. fire arms; as, heavy firing was heard.—Act of cauterizing or applying fire a wound, &c.; as, to fire a horse's

pastern. Fuel; fire-wood; coal; peat.

They burn the cakes, Aring being there scarce."-Mortimer

Fir'ing-iron, s. (Farriery.) An instrument used for

First ing-irons, n. (ran-roy, an amount ing.

Firkin, n. [A. S. feever, four, and dim. kin.] An old measure of capacity, being the fourth part of a barrel, or 7½ imp. gal.; as, "a firkin of strong beer." Arbuthnot.

—A small cask or keg of indeterminate size; as, a firkin of butter.

Firlot, n. [A. S. feover, and Eng. lot.] A dry measure formerly used in Scotland, four of which constituted a

formerly used in Scotland, four of which constituted a Boll, q. v.

Firms, a. [Fr. ferms; O. Ger. firmén; Icel. fermi, to confirm, from Lat. firmus, steadfast; akin to Gr. hermo, hermélos, a prop, support, from ereidő, to prop.] Steadfast; steady; stable; fixed; closely compressed; dense; stad; steady; stable; fixed; closely compressed; dense; hard; solid;—applied to the substance of bodies; as, firm flesh, firm muscles, firm wood, &c.—Not easily moved; fast; unshaken; constant; resolute; staunch; unswerving in purpose; steady in determination; as, a firm friend, a firm mind, a firm resolve.

"Love's artillery then checks
The breastworks of the firmest sex."—Clevelo

Not giving way; solid; — in contradistinction from fluid; as, "the firm land to drain."—Roscommon.

-Not giving way; solid; — in contradistinction from fluid; as, "the firm land to drain."—Roscommon.
-Indicative of resolution or firmness; as, a firm demeanor, a firm hold of anything, a firm tread.
-n. [Sp. firma.] (Com.) Originally, a signature which firms or confirms, or gives validity to a writing or deed; whence, a commercial partnership or house of business, or the name or title under which a company transact banking, mercantile, or trading operations; as, the firm of Baring Brothers.
-v. a. To make firm or fast; to strengthen. "He on his card and compans firms his ere."—Fabric Onessa.

"He on his card and compass firms his eye."—Fabris Qu-To fix; to confirm; to establish; to solidify.

oeed, and firm those omens thou hast made!"-Fir'mament, n. [Fr., from Lat. firmamentum — firmo, firmatus — firmus, steadfast, strong.] (Astron.) A term anciently used to signify the eighth heaven, or sphere in which the fixed stars were placed. It was called the eighth heaven because of the seven spheres of the planets which it surrounds. The firmament was supposed to have had two motions: one from E. to W., round about the poles of the ecliptic, and another and opposite nction from W. to E. These revolutions it is said to complete in 25,412 years, or, according to Copernicus, in 226,000 years; at the end of which time the fixed stars return to the exact points that they occupied prior to their revolution. In the classics, the period was denominated the Platonic or great year.—The word F. usually designates the expansive arch over our heads, in which all the various phenomena of the stars and planets appear to take place.

Figurature. [Pers. ferman.] In Turkey,

to take place.

Fir'man, n., pl. Firmans. [Pers. fermdn.] In Turkey, any decree issued by the Porte and authenticated by the Sultan's own cipher or signet. Each of the ministers and members of the divan has the right of signing firms. suntains own cipier or signet. Each of the ministers and members of the divan has the right of signing firmans relative to the business of his own department, but only the grand vizier is authorized to place at their head the cipher containing the interlaced letters of the autan's name, which alone gives them force. A decree signed by the sultan's own hand is called hatti-sherif. The name F is also applied to a passport issued either by the Porte or a pash, enjoining the subordinate authorities to grant protection and assistance to the traveller in whose favor it is granted. In India, a written permission to trade is called a firman.

Firm 1ler, adv. Firm in a greater degree; more firm Firm 1ler, adv. Firm in a greater degree; more firm firmally; adv. In a firm manner; strongly; steadily; resolutely; constantly; immovably; as, to be firmly persuaded of the justice of anything.

Firm nees, n. Quality of being firm; stability; steadfastness; strength; fixedness: constancy; certainty; compactness; hardness; solidity; as, firmness of resolution.

First, a. [A.S. fyrst, fierst, the summit; O. Ger. first; Ger. erste; Dan. fyrste. Root far, Goth. faura.] Fore-most in time, place, or progression; earliest; primary; original.

"Wh ds, will first complain." Preceding all others in rank, station, excellence, or esti-mation; chief; highest; most exalted; principal.

"First flower of the earth, and first gem of the sea."

"First nowe of the earth, and first gens of the sea."—Noor.

Preceding all others of a series, number, or kind; the
ordinal of one; as, first comes before second.

-adv. Before anything else in the order of time, or in order of proceeding or consideration; before all others in
place or progression, or in rank.

"Heav'n has kept this spot of earth uncurst, To show how all things were created first." At first, at the first, at the beginning, commencement, or origin; as, at first I did not appreciate him.

First or last, at one time or other; at the beginning

or end; at the commencement or close.

"All are fools and lovers first or last." -- Dryden. (Mus.) The upper part of a duet, trio, quartet, &c.,

either vocal or instrumental.

First'-born, a. First brought forth: eldest: first by priority of birth; as, a, first-born child. See Prince Niture.

—n. The first in the order of birth; the eldest child; the first in the order of nativity.

"Hail, holy light, offspring of heav'n, first-born!"--- Mil

"Hall, holy light, offspring of heav's, first-bora!"—Hilson.

First'-class, a. Being of the highest class of rank, quality, or consideration; as, a first-class passenger, a first-class article, &c.

First'-class article, &c.

First'-class, n. (Arch.) The laying the plaster on the laths, or the rendring, as it is called, no brick when only two coats are used. When three ccats are used, it is called pricking up when upon laths, and roughing is when upon brick.

First'-dlay, n. Sunday; — a term used by the Society of Friends, as being the first day of the week.

First'-floor, n. The tier of apartments in a house, immediately above the ground floor; as, a first-floor lodger. (Used in Europe.)

—In the U. States, the ground-floor of a building.

First Fork, in Fansylcania, a P. O. of Cameron co.

First'-fruit, n. sing, and pl. The fruit or produce first matured or collected in any season; first profits of anything; first or earliest effects of anything, in a good or bad sense.

bad sense.
(Ecc.) That portion of the fruits of the earth and other natural produce, which, by the usage of the Jews and other ancient nations, was offered to God, as an acknowledge and a thank activing for ancient nations, was offered to God, as an acknowledgment of His supreme dominion, and a thanksgiving for His bounty.—The medisval ecclesiastical impost known under the name of primitie, or first-fruits, and sometimes of annates or annatia, was the first year's whole profits, first of a bishopric, and afterwards of any benefice, claimed by the Pope. This claim was the subject of many contests in Germany, in France, and in England. Henry VIII. withdrew the right of first-fruits from the Pope, in order to transfer it to the king; and he established a special court for the administration of first-fruits, which, however, was soon disused. In the reign of Anne, the revenues arising from this impost in England were vested in a Board, to be applied for the purpose of supplementrevenues arising from this impost in England were vested in a Board, to be applied for the purpose of supplementing the incomes of small benefices. In France this tax was abolished by the Pragmatic Sanction enacted at Bourges in 1438, subsequently by the Concordat of Leo X, with Francis I. in 1512: and finally in 1789. In Spain, it ceased partially in the reign of Ferdinand and Issiella, and finally under Charles V. In Germany, it formed one of the first among the Centum Granamina presented to the emperor in 1521, and the claim ceased altogether from that period. the emperor in aver, man from that period.

First'-hand, n. Original possession, or the obtaining of anything by direct transfer from the producer.— As

first hand, immediately; from the direct source, without the intervention of agency; as, news at first hand.

First ling, n. [first, and termin. ling.] The first produce or offspring, as of sheep and cattle.

"Firstings of the fock are doomed to dis." — Pope.

First/ling, a. [Arst, and termin. ling.] The first produce or offspring, as of sheep and cattle.

"Firstings of the fock are doomed to dia."—Pope.
First'ly, adr. In the first place; priorily; before anything else. (Improperly used in place of first.)
First-mov'er, n. The person who, or thing which, is first in motion.

First-rate, a. Of the highest excellence in point of sixe, quality, or estimation; predominant; as, a first-rate intention, he is a first-rate fellow.

(Naut.) Being of the largest size, or highest class; as, a first-rate line-of-battle ship.
Firth, n. (Geog.) Same as Frite, q.v.

Fir-tree, n. (Iot.) See Fir.

Firet, (fik.) n. [Lat. fiscus, a basket of wicker-work, a money-basket: Fr. fize, exchequer.] (Law.) The name given among the Romans to the private treasury of the sovereign, in opposition to the ararium, or public treasury; but afterwards, when the sovereign power became absolute, the two terms came to be synonymous, and fiscus was applied generally to the property of the State. In Modern Law, on the continent of Europe, fiscus is applied to the public treasury, which is entitled to all fines, forfeited goods, goods without an owner, &c.; whence our term confiscation. The fiscus was entitled to many extensive privileges in civil as well as in criminal matters, and the term has come by degrees to be applied generally to the rights of the crown. In most of the German states, and in Spain, there is an office termed fiscal, who represents the government before the courts of justice, corresponding to our attorney-general.

Fisch'erite, n. (Min.) A hydrated phosphate of alumina, occurring mostly in six-sided prisms of a vitreous lustre, green color, and translucent. Hardn. 5; sp. gr. 246. Comp. Alumina 41-8, phosphoric acid 28-9, water 29-3. Found in veins, in a ferruginous sandstone and clay siate, at Nischne Taglisk.

Fisch, n. [A. S. face; O. Ger., O. Sax., O. Fris., Swed., and Dan. fisk; Icel. fish: Ger. fisch; Du. visch; W. pysg; and the property of the water. In the singular, however, is o

(ps. Fishes.) The singular, however, is often used for fishes in general, or the whole race.)

The fish of fish, used as food;—in contradistinction to that of terrestrial animals, which is distinctively denominated field; as, a dinner of fish.

A counter, used for marking the score of various games, as at cards.

Zoöl.) The name applied to a class of animals exclusively aquatic, and occupying the fourth and lowest station of the section vertebrata. The head is large, and set upon the neck without the intervention of any distinct neck: the body is usually of a spindle-shape, tapering gradually towards the extremity; and the surface is usually smooth, without any irregularities which might impede the motion of the creature in its native element. In its general form, the body is usually rounded, or slightly compressed at the side; sometimes this flattening proceeds to a much greater extent, so that the animal presents the appearance of a broad band, or oval disc, of which the edges correspond with the dorsal and ventral surfaces; in other cases, the flattening takes place from above downwards, producing a discellae body, of which the upper and lower surfaces are dorsal and (Zoöl.) The name applied to a class of animals exclu of which the upper and lower surfaces are dorsal and ventral A fish may be shortly defined as an animal breathing through the medium of water by means of gills; and in giving it our consideration, this latter apbreathing through the medium of water by means of gills; and in giving it our consideration, this latter apparatus is the most important feature presented. It is situated on each side of the neck, and consists of numerous lamines fixed on arches. These lamines are covered with numerous blood-vessels, and are so constructed as to present a considerable surface to the water, so that the blood may receive a sufficient portion of the oxygen contained in that element. As the water in contact with the gills becomes deteriorated, it is necessary that a constant current be caused to flow over them. In most fishes this is effected by their taking water in at the mouth and expelling it at the gill-covers. The blood, which is constantly sent from the gills to the heart, is distributed by means of the arteries to every part of the body, whence it returns to the heart by means of the veins. Animals of this order are for the most part furnished with an air-blaider in the interior of the body, which, as it is often connected with the casophagus by a tube, must be regarded to a certain extent analogous to the lungs of the air-breathing vertebrata. This sac



Fig. 1022.—THE BLACK-FISH, (Labrus Americanus.)

or air-bladder, however, has nothing to do with respiration; it receives blood from the arteries, and returns it into the veins, and the air which it incloses is probably derived from this fulld. By the dilatation or compression of this sac, the specific gravity of the fish is governed,

and, acted on by a curious muscular apparatus, renders its possessor lighter or heavier than the surrounding element. The limbs of the fish are formed into fins; element. The imms of the nan are formed into fins; the fore-legs constituting what are termed the pectoral fins, and the posterior extremities, the ventral. Besides these, ordinary fishes are furnished with one or two dorsal fins, an anal fin, and a caudal fin, or tail. In some fishes, the dorsal or median fins are continuous round the whole posterior portion of the body; and this is the condition in which these organs first make some fishes, the dorsal or median fins are continuous round the whole posterior portion of the body; and this is the condition in which these organs first make their appearance during the development of the embryo in all fishes, the subsequent changes which take place in the arrangement of the parts being due to the unequal development of the bony rays, which support and stretch the membrane of which the fins are composed. The pectoral in in all fishes consist of the same parts as the interior limbs of any other vertebrate animal. Concealed within the skin, immediately behind the branchial openings, is found a bony circle, composed of several pieces, representing the shoulder-blade, with the coracoid bone and clavicle. This supports the bones of the arm, which are usually very short, and bear a series of carpal bones at their extremity; the latter supporting a number of short cylindrical joints, whence the rays of the fin take their rise. The internal supports of the ventral fins never present such a close resemblance to the pelvis of the higher vertobrata as do those of the pectorals to the scapular arch. When situated in their normal position in the abdomen, they always consist of cartilaginous or bony pieces, lying freely in the muscles, and quite unconnected with the vertebral column; but when the fins are advanced from this position to the neighborhood of the pectorals, their internal supports are attached to the scapular arch of the latter members. The principal organ of motion is the caudal fin, or tail; by this it is propelled. The dorsal and ventral fins serve to balance it, and the pectorals to arrest its progress when required. The bones of fishes are of a less dense and compact nature than in the higher order of animals, and always remain in an isolated state, similar to that of the embryof the mammalia. The skeleton may be divided into four chief parts, — the vertebral column, the head, the respiratory apparatus, and the limits. The vertebrae are mere rings. To the vertebres are attached the ribe; The head varies more in form than in any other class of vertebrate animals. The same lones as those found in other oviparous animals are almost always traceable. The upper jaw consists of maxillary and intermaxillary bones. In the greater number of fishes, the intermaxilary bones constitute the chief portion of the upper jaw, the maxillary bones being placed behind and parallel to them. The lower jaw is composed, generally, of two bones on each side, the dental portion in front, and the articular portion behind. The form of the body is for the most part such as mechanical principles teach to be best adapted for moving with least resistance through a liquid medium. The surface of the body is either smooth and lubricous, or is covered by closely-imbricated scales, rarely defended by bony plates or roughened by hard tubercles, still more rarely armed with spines. The contral axis of the nervous system presents but one partial enlargement, and that of comparatively small size, at its interior extremity forming the brain, which consists of a succession of ganglionic masses, most of them exclusively appropriated to the function of a nerve of special sense. The power of touch can be but feebly developed in fishes. The organ of taste is a very inconspicuous one,— the chief function of the framework supporting it, or the hyoidan apparatus, relating to the mechanism of swallowing and breathing. Of the organ of hearing there is no outward sign; but the essential part, the acoustic labyrinth, is present, and the semicircular canal, largely developed within the abyrinth, is without cochies, and is rarely provided with a special chamber, but is lodged, in common with the brain, in the cranial cavity. The eyes are usually large, but seldom defended by eyelids, and ever destitute of a lachrymal organ. The alimentary canal is commonly short and simple, with its divisions not always clearly marked, the short and wide gullet being hardly distinguishable from the stomach. The pancreas, for the most part, retains its primitive cond the venous blood and propelling it to the gills; whence the circulation is continued over the entire body in vessels only, which are aided by the contraction of the surrounding muscular fibres. The blood of fishes is red but coid, and is rarely elevated above the temperature of the surrounding element. The sexes of fishes, excepting the sharks and rays, offer no very decided external characters by which they may be distinguished. The respiratory organs, however, occupy more space in the males than in the females, and, on the other hand, the abdomen is larger in the females than in the males. The differences of character in the scales have been made the foundation of a classification of fishes by Agasix, by whom all fishes are distributed into the four orders of Cycloid, Ctenoid, Placoid, and Ganoid Fishes.

(see these heads), having respectively cycloid, ctenoid, placoid, and ganoid scales; a classification which has been found particularly convenient with reference to Fisherville, in Fentucky, a P. O. of Jefferson co. Fisherville, in Principlant, as, the

fossil fishes, although other systems maintain their ground against it as preferable for recent species. It is not, however, wholly artificial, for a relation can be very generally traced between the character of the scales and the general structure and economy of a fish. But the classification most generally adopted, and followed in this work for the convenience of the general reader, is that of Cuvier, who divides them into Osseous Fishes, that of Cuvier, who divides them into Osseous and Subdivides Osseous fishes into Acanthopi kregians, and subdivides Osseous fishes into Acanthopi kregians, and Plectorons. MALACOPTERIGIANS, LAPHOBRANCHIATES, and PLECTOGNA-THES, q.v.; and Cartilaginous fishes, or Chondroptery-gians, into Sturiones, Selachianes, and Cyclostomes or

gians, Into Sturiones, Selachianes, and Cyclostomes or Suckers, q. v.
Fish., n. (Naul.) An apparatus employed to hoist and draw up the flukes of a ship's anchor towards the cathead, in order to stow it away after it has been catted. (Sometimes termed fish-block.) A long piece of timber shaped like a fish, hished to a lower mast or yard to strengthen it when sprung.

—v. n. To endeavor to catch fish; to be employed in catching fish by any means, as by angling, netting, or dredging.—To attempt to gain anything by artifice, or indirectly to seek to draw forth; as, to fish for a compliment.

"Others Ask with craft for great opinion

e. a. To search for, by raking or sweeping.
"He Ash'd her nether realms for wit."—Pope.

"He fish'd her nether reaims for wit."—Pope.

To catch; to draw out or up;—often preceding up; as, to fish up a sunken person.—To angle: to throw a fly as a bait for fish; as, to fish a salmon-pool.

(Naul.) To strengthen by splicing with a long piece of timber; as, to fish a mast.

(Civil Engin.) To splice or fasten; as, to fish the joints or rails on the eleopers of a railroad.

Fish'-beams, n. (Mech.) A beam which bellies out on the under side.

Fish'-bellied, (-bel'lid,) a. Bulging out at the bottom; as, a fish-bellied goblet.

Fish Carver, n. A fish-slice; a silver knife for carving fish at table.

Fish Creek, in Indiana, enters the St. Joseph river (branch of the Maumee) from Steuben co.

Fish Creek, in Michigas, enters the Maple river from Montcalm co.

Montaim co.

Fish Creek, in New York, rises in Lewis co., and enters
the Oneida lake from Oneida co.

the Orienta take from Orienta co., about 25 m. above its junction with the Mohawk.

—Enters Wood creek in Orienta co.

Fish Creek, in Wiscossis, a post-office of Door co.

Fish Culture. See Pisciculture.

Fish'dam, in North Carolina, a post-office of Durham county.

Fish'dam, in South Carolina, a village of Union co., about 60 m. N.W. of Columbia.

about 60 m. N. W. of Columbia.

Fish'-day, n. A fast-day; a day on which no other
flesh than that of fish is eaten. In the Roman Catholic Church, Friday is appointed to be kept as a fish-day.

Fish'er, n. One who practises the catching of fish; an
angler; a trawler; a fisherman; as, a fly-fisher.

" A fisher now his trembling angle bears."-Pope

alger; a trawier; a nahorman; as, a ny.taker.

"Asker now his trambling angle bear."—Pope.

(Zoil.) A quadruped of the genus Mustrilla, q. v.
Fish'er, in Lowa, a township of Fremont co.
Fish'er, in Pennsylvania, a post-office of Clarion co.
Fish'ermam, n.; pl. Fisherman. A fisher: one whose occupation is the catching of fish; an angler.

(Naut.) A fishing-vessel, especially one employed in the cod- and whale-fisheries.
Fish'ermam's Bay, in California, a post-village of Sonoma co., alt. 50 m. N.W. of Santa Rosa.
Fish'erman's In N.W. Fork, a post-office of Ontario co.
Fish'ersburg, in Indiana, a post-village of Madison co., alt. 28 m. N.E. of Indianapolis.
Fish'er's Ferry, in Indiana, a post-office of Northumberland co.
Fish'er's Hill; in Virginia, a lofty eminence, about 20 m. S. of Winchester, lying between the Massanutten and North mountains, and with its base washed by a branch of the Shenandosh. This place was the scene of a smart action, Sept. 22, 1864, between a National force under Gen. Sheridan, and one of Confederates commanded by Gen. Early, in which the latter was defeated with the loss of about 1,000 men killed and wounded, over 1,000 prisoners, and 16 guns. Among the killed were Gens. Rhodes and Goodwin. The Union casualities numbered about 3,000.
Fish'er's Island, in New York, at the E. end of Long Island.

Fish'er's Island, in New York, at the E. end of Long Island.

Fisher's Landing, in N. Y., a P. O. of Jefferson co, Fish'er's Landing, in Washington, a village of Clarke co, about 8 m. from Vancouver. Fish'er's Point, in W. Virginia, a P. O. of Jackson co, Fish'er's River, in North Curolina, enters the Yadkin

woman.
Fish'-flake, n. See Flake.
Fish'-garth, n. Same as Wein, q. v.
Fish'sig, Fis'gig, n. [Fish, D. vish, and ghichten, to whirl or hurl.] (Naut.) A kind of pronged dart or harpoon used at see to hurl at fish as they swim.

harpoon used at see to hurl at fish as they swim.

Fish'-glue, n. Same as ISINGLASS, q. v.

Fish'-hawk, n. (2061.) See OSPREY.

Fish'-hook, n. An iron or steel hook, of different sizes, used in catching fish; part of a fish-tackle.

Fish Hook, in Illinois, a post-office of Pike co.

Fish House, in New York, a village of Fulton co., on the Sacandags River, abt. 45 m. N.N.W. of Albany.

Fish'ify, v. a. To turn into fish.

Fish'iness, n. State or quality of being fish;
Fish'iness, n. State or quality of being fish;
fish'ines, p. a. Used or employed in fishing, or by
fishermen; as, a \*\*shing-rod, fishing-tackle, a fishingboat. &c.

Art or practice of taking fish.

Fish'ing Creek, in Georgia, enters the Savannal
River from Lincoln co.

River from Lincoin co.

Pish'ing Creek, in Indiana, enters the E. fork of
White River at Lawrenceport.

Pish'ing Creek, in Maryland, a P.O. of Dorchester co.

Pish'ing Creek, in Missouri, enters the Missouri
River from Ray co.

Pish'ing Creek, in New Jersey, a post-village of

Cape May co.

Fish'ing Creek, in N. Carolina, enters the Tar Riv from Martin dist.

from Martin dist.

Fish'ing Creek, in Pransylvania, enters the N. branch of the Susquehanna from Columbia.

—A post-township of Columbia co.

Fish'ing Creek, in S. Carolina, enters the Catawba River from Cheeter co.

Fish'ing Creek, in W. Virginia, enters the Ohlo River Catawba River from Cheeter Co.

from Wetzel co.

Fish'ing-fly, n. A fly, natural or artificial, whipped around a hook, and used by anglers as a bait to allure

fish'ing-frog, n. (Zoöl.) See LOPHIDE.

Fish'-joint, n. (Railroad-Engineering.) That joint of wood or iron which connects and holds the ends or extremities of two rails. (Called in England, chair.)

Fish'-kettle, n. An oblong kettle used for boiling

fish whole.

Fish kill, in New York, a post-village and township of Dutches co., 62 m. N. of New York and 4 m. from Fishkill-on-Hudson.

Fish'kill Creek, in New York, enters the Hudson

Fish's till-on-Hudson, in New York, a post-village of Dutchess co., on the Hudson river, 8s m. N. of New York city. Pop. (1897) about 4,000.

Fish's till Moun'taims, in New York, a name sometimes applied to the Highlands of the Hudson.

Fish's till Plains, in New York, a post-village of Intchess co.

Dutchess co.

Pish Lake, in New York, in the N. part of Fulton co.

It is abt. 4 m. in length, and averages 1 m. in width.

Fish'-like, a. After the nature of a fish; partaking of or exhibiting the properties of a fish; as, "A very ancient and fish-like smell."—Shake.

Fish'-maw, n. The air-bladder of a fish.

Fish'-meal, n. Diet on fish; a fish-dinner; abstemious diet.

Fish'-monger, (-mang'gr,) n. A vender or seller of

fish; a dealer in fish or basket of wicker-work, weighted with lead, and sunk, with a cork buoy attached: used in the catching of lobsters and other crustacea.

ond, in South Carolina, a township of Barnwell

Fish Port, in South Carolina, a township of Barnwell county.

Fish Port, in Illinois, a village of Rock Island co.

Fish River, (Great,) a river of 8. Africa, rising in the Sneeuwsberg, or Snowy Mountains, and emptying into the Indian Ocean, after an estimated course of 260 m, in Lat. 33° 30′ S. Lon. 27° 20′ E.

Fish River, (Great,) in British N. America.—See Great Fish River.

FIREAT FINE RIVER.

Fish -- TOOMs, n. (Naut.) A room on board ship, situate between the spirit-room and the afterhold, and used for the storage of fish, &c.

Fish'-slice, n. A fish-knife; a fish-trowel; a broad knife, usually of sliver, used for dividing and serving fish at dinner.

fish at dinner.

Fish'-spear, n. A kind of dart or harpoon employed in the taking of fish by spearing them.

Fish Springs, in Una, a post-office of Juab co.

Fish'-takin, n. (Naut.) A tackling used for raising a ship's auchor to the cat-head.—The term is applied to fishing-rods, lines, nets, &c., collectively.

Fish'-takin, a. Formed like the tail of a fish.

Fish'-takin Burm'er, n. A gas-jet or burner, throwing out a finme in the form of a fish's tail.

Fish'-trowel, n. Same as Fish-kniff and Fish-slice (a. v.).

Fish'-trowel, s. Same as FISH-KNIE and FISH-SLICE (q. v.).
Fish'wille, in Michigan, a post-office of Montcalm co.
Fish'-wife, Fish-wom'am, s. A woman who cries fish fish: a female peddler of fish; a woman who cries fish for sale; as, her tongue is long as a fish-woman's.
Fish'y, a. Consisting of fish: inhabited by fish; having the qualities of fish; fish-like; as, a fishy flavor.
-Improbable; doubtful, like some stories narrated by fishermen; slippery; hard to get to the bottom of; as, a fishy fellow, a fishy anecdote.

whale-fishery.—A place for catching fish.—See River
Fisheries, Sea Fisheries.
Fish'-flag, vi. A fish-woman; a female vender of fish;—
the term is also applied to a brawling, noisy-tongued
woman.

Sea Fisheries. Sea Fisheries.

Fish'-flag, vi. A fish-woman; a female vender of fish;—
the term is also applied to a brawling, noisy-tongued
woman.

Fishe-willies of Providence co., on Pawtuxet river, about 12 m. 8. W. Providence.

of Providence.

Fisks burg, in Kentucky, a post-village of Kenton co, about 40 m. N. N. E. of Frankfort.

Fis/lerville, in New Jersey, a village of Gloucester co, about 22 m. S. of Canden.

Finsile, (fifsil), a. [Lat. fissilis—findo, fissus, to split, or cleave.] That may be split, cleft, riven, or divided in the direction of the grain, or of natural joints.

"This areas it is a radical finding atoms." Newton. "This crystal is a pellucid feedle stone." — Nes

"This crystal is a pelincid sessis stone." — Newton.
Fissil'ity, n. State or quality of being fissile.
Fission. (fish'un,) n. [Lat.fissio.] A cleaving or dividing into two parts.
Fissip'sara, n. pl. [Lat.fissio.] A cleaving or dividing into two parts.
Fissip'sara, n. pl. [Lat.fissio.] A cleaving or dividing into two parts.
Fissip'sara, n. pl. [Lat.fissio.] a called which propagate by spontaneous fission, or the detachment of a greater or less proportion of the body, having inherent power of self-support and growth. As the animals which manifest this mode of generation differ widely among themselves in their general organization, the term Fissipara cannot be applied to designate any natural group; spontaneous fission is limited to the lowest classes of animals, as Infusories, Polyps; and to certain worms, as the Nais, &c.
Fissip'arisms. Fissipar'ity, n. (Physiol.) Reproduction by spontaneous division.
Fissip'arous, a. (Physiol.) Applied to an animal or plant which propagates by spontaneous fission.

or plant which propagates by spontaneous fission.

Fis siped, a. [From Lat. Assus — Andert, and pes, pedis, foot.] (Zold.) Having separate toes, or toes un-

-n. (2004.) All annual maring expanding connected by a membrane.

Fissiros'tral, a. [Lat. fissus, cleft, split, and rostrum, a bill or beak.] (2004.) Having a bill with a very wide

a bill or beak.] (Zoll.) Having a bill with a very wide gape, as certain birds.

Fissiros'tres, n. pl. [Lat. findo, I cleave; rostrum, a beak.] (Zoll.) A tribe of birds, order Incessores, consisting of the Swallows (Hirundinida), Swifts, and Goat-suckers. They are distinguished by having the bill short, broad, depressed, slightly curred, without any tooth, and so deeply cleft as to give peculiar wideness to the gape—a structure of great use to birds which



Fig. 1023. — THE WHIPPOORWILL. (Goat-sucker family.)

(Gost-sucker family.)

prey so exclusively on insects taken on the wing. On account of the food on which they subsist, all the finsirostres migrate from northern countries towards the close of autumn, and return again in spring. Like the raptorial order, or birds of prey so called, the fissirostral tribe is capable of a binary division into diurnal and nocturnal species.

Fissure; (fish'ūr,) s. [Fr., from Lat. fissura—findo, to split or cleave.] A cleft; a chink; a crevice; a narrow chasm made by the parting of any substance; a longitudinal opening; a crack; a slit; a deep, narrow groove.

"The gaping fissures to receive the rain."—Thomson.
(Anat.) A fracture in which the bone is cracked. not

"The gaping fassers to receive the rain."—Thomson.

(Anat.) A fracture in which the bone is cracked, not separated.—A narrow, long, and superficial solution of continuities, around the external openings of the mucous membrane.—A sort of chap observed on the hands, particularly on the callous hands of workmen in certain mechanical employments.

—v. a. To cleave; to rend into two; to form a fissure; as, "a fissured skull."

Fissurella, n. [Lat. findo.] (Zoot.) A genus of Gasteropodous Mollucca, having a shell shaped like that of a limpet, but with a fissure at the apex of the cone, which opening is associated with a different form and arrangement of the breathing-organs.

Fist, n. [A.S. fyst; D. vuist; Ger. fost, allied to fugen, to join, unite, and probably allied to Sansk mushti, the fist.] The hand fast closed or clenched; the hand with the fingers doubled into the palm, as if clenched to strike a blow.

"She . . . up with her flat and took him on the face." - Side v. a. To strike or pommel with the fist.

" I saw him setting her most unmercifully."

Fistic, a. [See Fist.] Pertaining to boxing, or the art of self-defence; pugilistic; as, fistic science. (Used risticuffs, n. pl. [Fist and cuff.] Blows or a combat

with the fists; a boxing-match; a puglistic encounter.
"My invention and judgment are perpetually at factoufs."—Swift.

"My invention and judgment are perpetually at fasticuss."—Swit.

Fis'tinut, n. Same as Pistachio, q. v.

Fis'tuca, n. Among the Komans, an instrument used for ramming down pavements and threshing-floors, and the foundations of buildings, &c. (Called, in modern phraseology, a monkey.)

Fistula, (fist'yu-la,) n. [Probably from Gr. physāā, to blow, to puff, from physa, a pair of bellows.—phyō, to bring forth.] A shepherd's pipe; a water-pipe.

(Zool.) The intermediate subquadrangular pipe, in

insects, formed by the union of the two branches of the authia, which conveys the nectar to the pharynx.

(Surg.) A long and sincous ulcer, having a narrow opening, sometimes leading to a larger cavity, and which has no disposition to heal. The most common form of this disease is the fusula in ano, the sinus extending into the cellular substance about the anus, or into the rectum itself. It is the result of abscesses formed in the cellular tissue around the rectum, and which, having burst or been opened, are prevented from healing by the action and irritation of the sphincer ani. They are divided into two kinds — complete, and incomplete or blind; the former having two openings or outlets, the one externally, the other into the rectum; the latter having only one, and being divided into blind external and blind internal, according as the opening is external or internal. This disease is commonly attended inter naving only one, and being divided into blind external and blind internal, according as the opening is
external or internal. This disease is commonly attended
with intense pain, especially when passing the faces,
and there is an irregular discharge of purulent metter,
which is sometimes mixed with blood. The treatment
consists in making a complete division with the knife
of the whole of the parts between the fistula and the
bowel, and the edges of the wound are kept spart by
lint, in order to allow the cavity to fill up by granulation. A fatula lacrymalis is a disease of the lacrymal
sac, caused by an obstruction to the flow of tears along
the nasal duct. The symptoms of this disease are a
watering of the eye, with a dryness of the corresponding nostril, a distention of the lacrymal sac, and a discharge of muco-purulent fluid mixed with tears, from
the puncta lacrymalia, when the sac is compressed. In
the earlier stag- of this disease, when there is only a
distended state of the lacrymal sac, a cure may be
effected by the application of leeches and fomentations
to the eye, with the use of astringent ointment to the
edges of the lid. In the more advanced stages, however,
where there is inflammation and suppuration of the sac,
or where a flatulous opening has been formed in it, by to the eye, with the use of astringent cintinent to the edges of the lid. In the more advanced stages, however, where there is inflammation and suppuration of the sac, or where a flatulous opening has been formed in it, by the escape of purulent matter, an operation becomes necessary for its removal. This is effected by making an incision with a sharp-pointed knife into the lacrymal sac, and then passing a probe downwards into the nasal duct, after which a silver instrument called a style is inserted, and allowed to remain until the inflammation which produced or accompanied the abscess has subsided. Sattwary Istula is a fistulous aperture in one of the salivary ducts, opening externally, and through which the saliva escapes. It is generally caused by a wound, which, if recent, may be cured by merely bringing together and uniting the edges of the wound: but if of some standing, a free ranal ought to be formed for the discharge of the saliva into the mouth. In fartular in perince, which is almost always accompanied with a stricture of the urinary passage, the fluid jassing out of the external opening of the sinus, an operation is necessary, which will require the aid of a competent surgeon. Fistulas generally require very skillul treatment, and are often extremely difficult to close; and though not in themselves dangerous, they are not unfrequently attended with fatal results, arising out of the constitutional depression, which they occasion by the long-continued wearing pains, and the drain upon the system, in consequence of the protracted discharge. Fistulas in ano is often observed in consumptive patients.

Fistularia, (fat'u-lar,) a. [It. fatolar.] (Zow.) A family of acanthopteryglous falses, of which the genus Centricus, including the Trumpet-fish, may be given as the type.—See Centratects.

Fistulalae, v. n. [It. fatolar.] To become a pipe of fistilas.

Fistulaidam, n. [From Lat. fatula.] (Zow.) A tribe of animals class Echinodermate courservance.

Fist'ulate, v. n. [11. Inticare.] To become a pipe or fistila.

Fistulidam, n. [Fom Lat. Intula.] (Zozil.) A tribe of animals, class Echinodermata, comprehending those which have an elongated cylindrical tube-like body.

Fist'liform, a. [lat. Intula, and Jorma, form.] Having a factula or tube-like form; pipe-shaped.

Fist'ulous, a. [Lat. Intula, and Jorma, form.] Having a factula; as, a fistulous ulcer. — Reed-like; fistulose; hollow, like a pipe.

Fit, n. [Probably from It. Int. Intulation of a fistila; as, a fistulous ulcer. — Reed-like; fistulose; hollow, like a pipe.

Fit, n. [Probably from It. Int. Intulation of intermittent pain, from L. Lat. Intulation, in fix, fasten, drive in. See Fix.] The invasion, increase, or paroxysm of a disease; a sudden and violent attack of disorder, in which the body is often convulsed, and sometimes senseless; a convulsion; as, a fit of apoplexy, a fit of ague, &c.

"And when the fix was on him. I did mark

"And when the fit was on him, I did mark How he did shake." — Shake.

Any short return after intermission; a turn; a period or interval; a temporary affection; a transient attack or paroxysm; as, a fit of melancholy, a fit of the blues, a fit of mischievousness.

" A short vicissitude, and At of poverty." A passing humor or disorder; an impulsive, unrestrained, or irregular action.

'Your husband . . . best knows the fits o' th' sea A sudden effusion or emission; as, "a fit of flame Coleridae.

(Lit.) A canto of a poem. See Fiftz.

By fits and starts. Impulsively; irregularly; without continuous action; with intervals of motion and quies-Cence.
"'T was sad by fits, by starts 't was wild." —

Fit, a. [F. fait: 0. Fr. faic, from faire, to do, to make; Lat. facere, factum, to make; Goth. fetjan, to arrange.] Made so as to suit a particular purpose or thing; adapted: suitable; qualified; competent; convenient; meet; worthy; as, what is he fit for?

"The steet help just fortune could afford." - Cowley.

Beroming; suited to the nature and property of things;
proper; appropriate; congruous; apt; qualified; competent; adequate; as, a fit companion.

"It is fit for a man to know his even abilities and weaknesses."

"It is for a man to know his even abilities and weaknesses."

Fit, v. a. To make fit or suitable; to adapt; to accommodate, as a person with any thing; to prepare; to put in order for; to qualify; as, she is fitted to please.

"The time is fitted for the duty." — Burke.

"The time is fitted for the duty." — Burks.

To bring into a certain form; to adjust; to adapt to a model, or after a fashion; to shape: to make exact or symmetrical; as, to fit an engine, to fit a cost to the body. — To furnish or supply with something fit or suitable, or that is properly fashioned for use.

"No milliner can so fit his contoners with glores." — Shaks.

To be adapted or suitable to; to satisfy the required aim or end; to be rightly shaped, and correspondingly adjusted to; as, a well-fitting coat.

To fit out. To furnish; to equip; to supply with necessaries, stores, &c.; as, to fit out a ship, to fit out an analytic her.

expedition, &c.

To flux sp. To furnish with everything needful; to make proper for the use or reception of any one; as, to

. a. To be proper or becoming.
"How evil stee it me to have suc

now evi me it me to have such a son." — Many.

To be adapted or sultable; to be suited or adjusted to the necessary or desired form; as, her gloves fit well.

Fit, s. The close and easy fitting of an article of dress; adjustment of dress to the body; as, his clothes are a good fit.

(Mach.) The coincident adaptation of connecting parts

Fit., m. The close and easy fitting of an article of dress; adjustment of dress to the body; as, his clothes are a good M. (Mack.) The coincident adaptation of connecting parts. Fitch, m. [It veccia; Lat. vicia.] A chick-pea.—[A contracted form of fitchet.] The fur or skin of the pole-cat. Fitch, John, an American inventor and mechanic, the picaser in steam-navigation, B. in Windsor, Conn., Jan. 21, 1743. He was the son of a farmer in good circumstances, and received as liberal an education as the schools of the district would afford. The bent of his mind, from the earliest ags, was towards mechanics. In his youth he had some inclination for the sea, of which a few voyages effectually cured him, and he then gave himself up to the business of clock-making. He exchanged this for the trade of a bras-founder. He was a silversmith in Trenton, N. J., when the British army entered that town in 1776. He was convicted of repairing American arms; his shop was therefore destroyed. He joined the army, and was with Washington at Valley Forge. From this district he set off for Kentucky in 1780, having been appointed deputy-surveyor. He returned to Philadelphia in the following year, and on his journey back was made a prisoner by the Indians. Redeemed from captivity through the exertions of a British officer, he assumed the duties of his situation, and while sailing on the great Western waters, he conceived the idea that boats might be propelled through the water, and carriages on land, by force of steam. In August, 1785, having prepared a plan and model of a steamboat driven by paddles, he presented the subject to Concress, and asked for aid to complete his experiments; but the application was rejected. A controversy arcse between F. and Rumsey, who had also made public a plan for steam-navigation, and ultimately, in the course of the years 1786 and 1787, F. obtained Acts of the state legislatures of New Jersey, Pennsylvania, and Delawheels, vertical oars worked by means of cranks, and with these he fitted a small skiff, whi

Fitch burgh, in Massachusetts, a city, one of the cape

of Worcester co, on a branch of the Nashua river, about 50 miles N.W. of Boston. Munnf. Fire-engines, machinery, edge-tools, &c. Pop. (1885) 26,409.

Fitchburgh, in Michigan. a post-office of Ingham co. Fitchburgh, in Wisconnin, a post-office of Maniship of Dane county, about 10 miles 8. of Maniship of Dane county, about 10 miles 8. of Maniship of Dane county.

Fitched, (ficht,) a. (Her.) Pointed; made sharp to

Fitch'et, Fitchew, (fch's,) n. [Fr. fman, from Lat falea, fatere, to stink.] A pole-cat; a foumart.

"Tis such another fitches ! marry, a perfumed one."-Shake

Pitch port, in Konucky, a village of Garrard co., abt. 45 m. S. of Frankfort.

Fitch ville, in Okio, a post-village and twp. of Huron co., abt. 90 m. N. by E. of Columbus.

Fit ful, a. Full of fits or changes; varied by sudden involved.

"After His's fifth fever, he sleeps well." — Shake.
Fit'Telly, ade. By fite; at intervale; in a fithi manner.
Fit'Ty, ade. Suitably; properly; with propriety; commodiously; conveniently; as, his speech was filly to the

obtain an end.

FIVE

"Tis a needful fitness that we adjourn this court." - Shake

Fit'ter, a. He or that which fits, or confers fitness.
(Om.) In England, a broker who conducts the sa

Five mile views, in the control of the sales between a coal-owner and a shipper of coals.

(Com.) In England, a broker who conducts the sales between a coal-owner and a shipper of coals.

(Mach.) One who fit or adjusts the different parts of machinery together; as, an engine-filter.

Fit'ter, n. [It. filta.] A little piece; a shred; a tatter; as, to cut into filters. (2.)

Fit'ting, n. (Generally in the plural.) The necessary appointments, fixtures, appliances, &c., used in fitting of controversy between the Calvinists and Arminians. Sec. Calvinist.

Sec. Calvinist.

Five Points, in Alabama, a post-office of Chambers co. appliances, in the filtings of a ball-room.

Wives.

His horse, past cure of the first."—Sads.

appointments, fixtures, appliances, &c., used in fitting up any place or thing; as, gas-fittings, the fittings of a ball-room.

Fitting; p. a. Fit or appropriate; suitable.

Fittingiy, adc. Suitably; properly.

Fittingmess, n. State or quality of fitting.

Fittingmess, n. State or quality of fitting.

Fittingmess, n. State or quality of fitting.

Fittingmess, s. State or quality of fitting.

Fittingmess, n. State or quality of a ship, fitting-up of a house, &c.

Fittingmess, n. State or quality of a ship, fitting-up of a house, &c.

Fittingmess, and the fitting-out of a ship, fitting-up of a house, &c.

Fittingmess, and the fitting-out of a ship, fitting-up of a house, &c.

Fittingmess, and the fitting of and the Oriental fittingmess, like the Sootch Mac, the Irish O, and the Oriental fien, to signify descent; as in the names Fitswillian, Fitswalter, Fitzherer, f. e., son of William, son of Walter, &c. In England, the term is applied in a similar sense to illegitimate scions of the blood-royal; as, Fitroy (son of the king); Fitzelarence; Fitzycorge, &c.

Fitzger'ald, Lord Edward, an Irish patriot, E. near Dublin, 1763, was a son of the first duke of Leinster. He distinguished himself for intrepidity as aide-de-camp to lord Rawdon in the latter part of the American revolutionary war, and was severely wounded in the battle of Eutaw Springs. When the French revolution broke out, he supported its principles, and in 1793 hastened to Paris. Here he married Pamela, the daughter, it is said, of Louis Philippe Joseph, the duke of Orleans, and Madame de Genlis. On his return to Ireland, Fitzgerald was desirous of effecting a separation of that country from England, and induced the French Directory to furnish him with a fleet and troops. A landing was attempted on several ocasions, but without success, owing to the vigilance of the English channel fleet; and Fitzgerald was seized, tried, and condemned to death. D. of his wounds before the time fixed for his execution, 1798. His wife, distinguished for her wit and beauty,

Firs Henry, in Femisylvania, a post-village of West-moreland co., abt. 37 m. S.S.E. of Pittsburg. Fits hugh Sound, a strait of British N. America, Lat. 510 35 N., Lon. 1280 10 W. It separates Calverts

Island from the mainland.

Its'roy Harbor, a village of Upper Canada, co. of Carleton, abt. 32 m. E. of Bytown.

itz'watertown, in Pennsylvania, a post-office of

Montgomery co.

Fitswilliam, in New Hampehire, a post-village and township of Cheshire co., abt. 60 m. 8.W. of Concord; pop. of township abt. 1,350.

Fitswilliam Depot, in New Hampehire, a post-many of Chashire of Cheshire.

Fiswall'liam' Depot, in New Hampshire, a postoffice of Chembire co.

Flume, (fe-55'ma,) a seaport-town of the Austrian
empire, on the Gulf of Quarnero, at the N.E. extremity
of the Adriatic Sea, Lat. 45' 19' 39' N., Lon. 14' 29' 40'
E. P. is one of the chief towns and the seat of govtof the Littorale, and is the trading outlet of liungary
with the Mediterranean. It has a good harbor, and is
situate 33 m. S.W. of Trieste. Manuf. Linen, coarse
cloths, leather, sugar, and refined petroleum. P. 25,000.
Flwe, n. [A.S. ff; D. vgf; Ger. funf; O. Ger. funf;
Goth. funf; Lat. quinque.] The half of ten; the twentleth of one hundred; a number greater than four, and
less than six; the sum of four and one.

"They wished him far the monder the Risits." — Revo.

Five Islands Harber, a bay on the W. coast of Antigua, W. Indies.
Five-leaf, n. Cinquefoil; five-finger.
Five Men's Sound, an arm of Frobisher's Strait, in British N. America.
Five Mile, in Alabama, a post-office of Brown co.
Five Mile, in Alabama, a post-office of Brown co.
Five Mile, in Taxas, a just-office of Dallas co.
Five Mile Creek, in New York, enters the Conhocton river from Steuben co.
Five Mile Creek, in South Carolina, enters the Catawha river from Lancaster co.
Five Points, The. (Eccl.) The five principal points of controversy between the Calvinists and Arminians. See Calvinier.
Five Points, in Alabama, a post-office of Chambers co.
Five Points, in Alabama, a post-office of Chambers co.
Five Points, in Alabama, a post-office of Chambers co.

Fives, n. pl. (Games.) A kind of ball-play resembling tennis, in which three fives, or fifteen, are counted to

the game.

Fives'-court, n. A building in which fives are played.

Fix, n. A predicament; a dilemma; a state of embarrassment; a position of doubt or difficulty.

"He is in an almighty fix." - De Quin

"He is in an aimight far."— Do Quincey.

Fix. v. a. [Fr. Azer; Lat. Agere, farus; allied to Gr. promismi, to make fast; Sansk. pac, to tie.] To make fast, firm, stable, or solid; to establish; to settle; to determine; to define; to appoint; to set; to institute.

To establish immovably; to set, settle, or direct steadily or intently; to deprive of volatility; to withhold from motion; as, to far one's attention upon anything.

" Fis'd like a plant on his peculiar spot." - Pope.

To transfix; to pierce.

"A bow of steel shall ,is his trembling thighs." - Sandys.

-a now or steel snam for his trembling thight." - Sandys.

-To arrange, or put in order; to adjust; to settle; to manage; to set to rights; to place in a suitable manner or condition; as, to fix one's dress, to fix any matter of work or business. (This definition is not according to English usage, and is purely an Americanism.)

-e. n. To rest; to settle or remain permanently; to cease from wandering; as, he fixed his abode in the U. States.

"Resolved to fix forever here." - Waller.

"Resolved to fix forever here." — Waller.

—To become firm, so as to resist volatilizing action; to cease to flow; to become fluid; to congeal; to become concrete, hard, and malleable, as a metallic body.

To fix on, to determine on; to conclude to settle the resolution on; as, we fixed on him as the umpire.

Fix able, a. That may be fixed.

Fix ation, (fixed; stability; firmness; steadiness; state of being fixed; stability; firmness; steadiness; state of being established; as, "fixation in matters of religion."

King (harles I. King Charles 1.

Act or process of changing from fluidity to firmness. m returns to its affected tubes."

Glanville. Balt dissolved upon a Ares

State of a body which resists evaporation or volatiliza-tion by heat, as certain metals.

"They need rather a degree of sixetion than any condensation." Act of forming chemical union with a solid body or sub-

—Act of forming chemical union with a solid body or substance; — applied to gaseous elements.

Fix'ative, n. A mordant; that which tends or serves to fix colors.

Fixed, (fixit,) p. a. Settled; established; firm; fast; stable; intently directed; directed or destitute of volatility; as, a fixed color.

Fixed air. (t/tm.) The old name for carbonic acid, from its existence in a fixed state in limestone.

Fixed ammunition. (Mil.) See Carratnes.

Fixed bodies. (Chem.) A term applied to substances that remain fixed or are not volatilised at a moderately high temperature.

that remain nixed or are not volatilised at a moderately high temperature.

Fix'edly, adv. Firmly; in a settled or established manner; steadfastly; as, to look fixedly at any person.

Fix'edness, n. A state of being fixed; firmness; stability; steadfastness.

"A fixedness in religion will not give any conscience leave to con-sent to innovations."—King Charles I.

less than six; the sum of four and one.

"(They) which the sum of four and one.

"A symbolic representation of such number; as 5, or V.—a. Four and one added.

Five Cor'mers, in New York, a post-village of Cayung co., abt. 20 m. S. of Auburn.

Five'finger, n. (Bot.) Pointilla repians, a species of cinquefoil.

Five'fold, a. In fives: consisting of five in one; five times repeated; quintuple.

Five'fold, a. In fives: consisting of five in one; five times repeated; quintuple.

Five Forks, a locality in Virginia, near Dinwiddic Court-liouse. Here, on April 1, 1865, a severe engagement was fought between the National troops and the Confederates, the former under the command of Gen. Sheridan, and the latter under that of Gen. Lee. After several hours' heavy fighting, the Confederates retreated with a loss of large number of killed and wounded, 5,000 prisoners, and several guns. The National loss was abt. 1,000 men, including Gen. Winthrop, who was killed.

Five Humm'mecks Point, a promontory of Lover California, Lat. 30° 24' N., Lon. 115° 40' W.

Five Humdred, (Council or fill.) (French Hist.) The National Convention in 1790 vested the legislative power in two councils, that of the Ancients, and that of the Five Hundred. To the latter was intrusted the sole right of originating laws. Its sittings were transferred to St. Cloud, Nov. 9, 1799. This council was dissolved by Napoleon Bonaparte, Nov. 10, 1799.

by near.

Fixture, (Akst'yūr.) n. That which is fixed, or made fast; that which is permanently attached to something as an appendage; as, the fixtures of a shop.

Fixedness; fixity; as, "the firm fixture of thy foot."

(Law.) F. are things annexed to houses or lands, which become, immediately on annexation, part of the realty itself, and are governed by the same laws as apply to heritable property. The question as to what are or what are not fixtures is of some importance, as determining the rights of landlord and tenant, heirs and executors, &c. Fixtures in general are personal chattels let into the earth, or cemented or otherwise fixed to some erection previously attached to the ground, and are thus legally immovable. If they be entirely clear of the soil, they are not fixtures, and may be carried off at pleasure. Hence a tenant may construct erections—even barns, sheds, and the like—upon blocks, rollers, pillars, or plates, so that they shall not be deemed fixtures, but remain movable chattels. The general rule is, that whenever a tenant has affixed anything to the pillars, or plates, so that they shall not be deemed fix-tures, but remain movable chattels. The general rule is, that whenever a tenant has affixed anything to the premises during his term, he cannot again sever it with-out the landlord's consent. To this rule, however, various exceptions have been made in favor of what are termed trade fixtures. A tenant may safely remove such things as he has fixed to the freehold for purposes of trade or manufacture, provided the removal cause no material injury to the estate. Another exception to the general rule is in favor of such fixtures as are put up for ornament or domestic use, as hangings, stoves, &c.; but not such as have become part of the tenement, and constitute permanent improvements. The distinction, however, is often very nice, and it is difficult to define

constitute permanent improvements. The distinction, however, is often very nice, and it is difficult to define it in general terms.

Fisgig, n. (Naut.) See Firston.—(Pyrotech.) A firework, so called from its fixing noise when exploded.

Firs, n. A hissing, sibilant sound; as, the first of effervescing champagne.

First, Firstle. (first.) v. n. [From the sound.] To make a hissing sound; to sibilate; as, the fixing of a Seidlitz draught.

draught.

-To make a mess of anything; to bungle; to fail in any

-to make a mess of anything; to bungle; to hair in any performance.

To fizik out, to burn with a splattering sound, and then go out suddenly, like damp gunpowder;—hence, by implication, to make a bold beginning ending in complete failure

Tis zile, n. An abortive effort; a failure; a collapse; and the entire thing ended in a fazzle.

Flab billy, adv. In a flabby, placid manner.

Flab billess, n. State or quality of being flabby.

flaccidity.

Flab'by, a. [From flap, and allied to flaccid; W. litb, flaccid, soft, limber, pliant.] Soft; yielding to the touch; easily bent; easily shaking: hanging loose by its own weight; flaccid; as, flabby flesh.

Flabell'late, a. [Lat. flabellatus.] (Bot.) Flabelliform. Thabellation, n. (Surg.) The act of fanning, or cooling by use of the fan.

Flabell'liform., n. [Lat. flabellam, and forma, form.] (Bot.) Fan-shaped; flabellate.

Flabile, a. [Lat. flabilis.] Liable to be blown about by the wind.

Fineeid, (fak'sid,) a. [Lat. flaccidus—flaccus, flabby.] Flabby; soft and weak; limber; laz; hanging down by its own weight; yielding to pressure; as, flaccid muscles. Flaccid'ity, n. [Fr. flaccidité.] Want of firmness;

Placeld'ity, n. [Fr. flaccidite.] Want of firmness; flaccidness.

Plac'cidly. adv. In a weak, lax, or limber manner.

Plac'cidly. adv. In a weak, lax, or limber manner.

Plac'cidness, n. Laxity: limberness; want of tension or firmness; lack of stiffness; flaccidity.

Plac'cius, Caus Valerus, a Roman poet of the 1st century, who lived at Padua, and died young. He wrote an epic poem, entitled Argonautica, of which seven books, and part of the eighth, were completed. In subject and in plan this poem is an imitation of the work of Apollonius Rhodius.

Flack'et, n. a. To flutter, as a bird. (Loc. Eng.)

Flack'et, n. [A. S. flaze, a flusk; Ger. flasche, a bottle.]

A bottle made in the shape of a barrel.

Flack'et, a. A truss made of straw to protect the back of a pack-animal from the creel or hamper which he carries.

rarries.

Flack'ville, in New York, a P. O. of St. Lawrence co

Flack ville, in New York, a P. O. of St. Lawrence co. Flad'strand, in Denmark. See Fraderikshavn. Flag, v. n. [Ger, facken, to become slow or languid; Sp. faqwar, to droop; Lat. faccere, from faccus, flabby. Cf. W. lacan, to elseken.] To hang loose, without stifness or tension; as, the sails flag.—To grow feeble; to leee vigor; to droop; to decline; to languish; as, "his wits flag."
Flag, v. a. To let fall into feebleness: to suffer to droop; to enervate, as, "nothing so flags the spirits." Echard.—To lay with broad stones. See Flag, n. [Gel. flagan; W. flag; A. S. fleogan, to fly, because it is moved by any wind.] (Bol.) See Isis.
Flag, n. [W. lee, that which lies flat; Icel. flake, anything level or flat.] A broad, flat stone used for making city pavements.

city pavements.

A pavement of broad, flat stones.

-A turf cut for burning.

faces, sacred animals and other significant objects. Except perhaps in China, it was not until the Middle Ages that drapery came to be generally used as the material for military and other ensigns. In modern times different cloth—especially bunting—silk, &c., are employed for flags according to the uses to which they are to be put and the expense almissible; they are of various shapes and colors, and either plain or marked with significant emblems. A device in a F., emblematic of union, occupying generally the upper inner corner, is called the senior; the rectangular part containing the union is called the conton; the rest of the F. being denominated the fly. The canton, with the union used by itself without the fly, is called the jack, or the smion jack. A square F. with a triangular piece cut out of the end farthest from the halyard, with the point toward the center, is called a corner; a short triangular F., a burge; a longer F. of the same shape, a signal pensans; and a very long narrow F., resembling a strip of ribbon tapering to a point, is called a pennas. A white F is recognized among all nations as a token of peace; in battle it is called a F. of truce, and when displayed or carried toward an enemy's line betokens a desire for a temporary cessation of hostilities or a conference; a black F. is the emblem of piracy, of no quarter, or of death. A red F. is associated with blood or danger; it was formerly used as a challenge for battle, and is the recognized awong of extreme revolutionary quarter, or of death. A red F is associated with blood or danger; it was formerly used as a challenge for battle, and is the recognized symbol of extreme revolutionary ideas, and the standard of the advocates of violence and anarchism; a yellow F indicates sickness of a dangerous character, requiring quarantine; a blue flag with a white square is called the blee-peter, and is hoisted, when a vessel is about to sail, as a signal of departure. anarchism; a yealow. Indicates statused to a tangest one character, requiring quarantine; a blue flag with a white square is called the blue-peter, and is hoisted, when a vessel is about to sail, as a signal of departure. A F. at half-mast is a sign of mourning; when hoisted upside down, or "union down," it is a signal of distress. Lowering the F. and immediately hoisting it again is called "dipping the F." and is the form for a salute or a manifestation of courtery. But the special and predominating object of a F. is to indicate nationality. Every nation has its own standard, bearing some device of historical significance and appealing to patriotic pride. Such a F. is often called an ensign. A reference to the accompanying plate will show the flags of the principal nations of the world.—The history of the Stars and Stripes, the national F. of the United States, shows a gradual development. As early as 1774 a F. with 13 stripes is said to have been used by Capt. Markoe, of the Philadelphia Light Horse. In the latter part of 1775, Dr. Franklin and Messrs. Lynch and Harrison were a committee to consider the subject of a national F. They recommended a F. with a field of 13 stripes, alternate red and white, emblematic of the union of the 13 colonies, yet retaining the canton of the British F. Such a F., made by a Mrs. Reid, was for the first time hoisted by Washington, Jan. 2, 1774, over his camp at Cambridge. Several other devices were employed in the early part of the revolutionary struggle, one being the pine-tree F., used in New England, another the rattlemake F. One of the latter kind contained a representation of a rattlesnake cut into 13 pleces with the initial of a colony on each, and the words: "Join or die." The established national ensign was that adopted by Congress, June 14, 1777, which may very properly be called the birthday of the United States (or American) F. Congress resolved that the F. should contain 13 stripes of alternate red and white—Tred and 6 white—representing the 13 original States. A c the 4th of July next following the admission. official garrison F. of the U. S. is 36 ft. in length 20 ft. in width. The flags other than the national Official garrison F. of the C.S. is of it in region and 20 ft. in width. The flags other than the national ensign, of various shapes, sizes and colors used in the service, can be clearly understood from the plate.—The national ensign of Great Britain, the union jack, is a combination of the separate flags of England, Scotland and Ireland. The red cross of St. George was combined with the cross of St. Patrick, a red saltire, was joined with the cross of St. Patrick, a red saltire, was joined with the others. The royal standard of England, which was hoisted on the tower of London, Jan. 1, 1801, floats over the royal residence, and is displayed at the main when the queen or a member of the royal family is on shipboard. But the flag that stirs the popular heart of Britain is the "meteor flag of England"—the union jack, with its red, white and blue—a flag that is loved like the similarly colored "flag of the Union," the "star-epangled banner" of the United States.

sories to anything, as embellishments, trimmings, &c.; as, chicken-fixings. (U. S. Vulgar.)

(Phot.) The cleansing of photographs from the sensitive layer not acted on by the light. The principal fixing agents are hyposulphate of soda, which may be used either for glass or paper pictures, and cyanide of potassium, which can only be used for the former.

Fix'ity, n. [Fr. fixild.] Coherence of parts; fixedness; that property of bodies by which they resist dissipation by heat.

Fixture, (fixi'yūr.) n. That which is fixed, or made fast; that which is permanently attached to something that they are in the air.]

In any of the root is found in A. S. Fixture, (it is a proposed in the single of south the single of such texture that, when attached by its edge to a pole or halyard, vill in the air; used to denote some fact, want, or sentiment. Fix itsy, n. [Fr. fixild.] A sect of religious fauntics that sprang our in Italy about the year 1260. They were so called from the flagellations or whippings which they administered to themselves, the leading doctrine of themsel being that by mortifying the flesh in every conceivable manner they propitiated the wrath and gained the favor of the Deity. Secta, or bodies of persons holding this doctrine, and practising whipping and other mortifications of the flesh, had appeared at various tinese in the earlier history of the Church; but this was the first occasion on which they made a prominent figure. People were no longer satisfied to perform these acts in private, but took to practising them in public, by way of greater humiliation. They formed themselves into large bands or companies, and went about from place to place, carrying banners and crosses, singing penitential hymns, and whipping themselves until the blood flowed. In 1261 they passed into Germany, and there made many converts; but on account of their irregularities and disorderly proceedings a general outcry was raised against them, and they were at length put down. The second great outbreak of this mania took place after 1349, when that terrible scourge, the black death, had swept over Europe and carried off so many persons. The imaginations of the people, already excited by the pestilence, were ready to seize upon this superstition, which spread rapidly through Germany, Switzerland, Holland, Sweden, and even England. The scenes of the previous century were reënacted with even greater excesses than before. Men and women indiscriminately now appeared in public half-naked, and underwent these self-inflicted courgings. They held that flagellation was of equal virtue with baptism and the Lord's Supper, that forgiveness of sins was to be procured by it without the blood of Christ, that the law of Christ was soon to be abolished, and that a new law, enjoining a baptism of blood, to be administered by whipping, was to take its place. They of Christ, that the law of Christ was soon to be abolished, and that a new law, enjoining a baptism of blood, to be administered by whipping, was to take its place. They were condemned by a bull of Clement VI., and other severities were practised against them, until at length they disappeared. Again, in the year 1414, a new troop of these fanatics made their appearance in Germany, under the leadership of one Conrad Schmidt. They were even more wild in their extravagances than their predecessors, rejecting all forms of worship, and holding that faith and flagellation were alone necessary to salvation. They were everywhere persecuted, and many of them were burnt as heretica among whom was their leader Schmidt: burnt as heretics, among whom was their leader Schmidt: with difficulty that their system was at length

suppressed.

Flag-ellate, v. a. [Lat. flagello, flagellatus — flagelluss, flagrum, a whip or scourge; akin to Eng. flog, and Gr. plégé, a blow, from pléssé, to strike; root pleg, plag.] To whip; to scourge; to flog.

Flag-ellate, a. (Bot.) Flagelliform.

Flagellation, n. [L. Lat. flagellatio.] A flogging; a whipping; the discipline of the scourge.

"By Bridewell all descend,
As merning-pray'r and flagellation end."—Garth

Flagel/liferm, a. [Lat. fagellum, and forma, form.]

[Bai.] Resembling the thong of a whip; fagellate.

Flagel/lum, n.; pl. Flagel/Lu. [Lat. a whip.] (Bot.)

A trailing shoot, such as that of the vine.

(Zoil.) An appendage to the legs of crustacea, resembling a whip.

Flageel/lum, [Fr.] (Mus.) A small instrument of the flute kind, played on by means of a mouthpiece at the upper end. It is generally made of box, ebony, or other hard wood, but sometimes of ivory, and has a clear and shrill tone. Its compass extends from F, the first space in the treble-clef, to F in attissimo. In the quadrille F, it is a little less extensive, while in the patent F, the scale is an octave higher. There are also double F. consisting of two tubes united by one mouth-piece. This instrument is now very seldom used, it being almost superseded by the fauto-piecolo, or ocbeing almost superseded by the flauto-piccolo, or o tave-flute

tave-nute.

Flag-feather, n. A feather of a bird's wing nearest the body.

Flagg, in *Illinois*, a township of Ogle co.

Flagginess, n. Laxity; limberness; want of tension; state or condition of being flaggy.

Flagging, n. Flagstones used for pavements, — in a collective sense.

collective sense.

Flag'gon Bayou, in Louisiana, enters Catahoula
Lake in Rapides parish.

Flagg Towm, in New Jersey, a post-village of Somerset
co., abt. 6 m. S.W. of Somerville.

Flag'gy, a. Weak; flexible; limber; wanting tension;
not stiff; as, "flaggy phinons."—Dryden.

—Abounding with the plant termed flag.

—Insipid; flavoriess; weak, and poor in taste; as, "a great
flagger spale."—Recen

-Insipid; flavoriess; weak, and poor in taste; as, "a great flaggy apple."—Bacon.

'lagitious, (flajish'us.) a. [Lat. flagitious.—flagitium, heat of passion—flagito, to demand flercely, from the root flag, whence flagro, to burn.] Infamous; deeply criminal; grossly wicked; atrocious; helmous; willanous; scandalous; as, a flagitious action.—Guilty of flagrant crimes; corrupt.

"He dies flagitious, vet not great,"-Pope,

Having the characterization of infamous crimes or vices.

Perjury is a crime of so flagitious a nature."-Addison.

Flagitiously, (fla-fish'us-le,) adv. With extreme wickedness; atrociously.
Flagitiousness, n. State or quality of being flagi-

tions; villany.

Flag'-officer, n. (Naval.) The commander of a fleet or squadron. Digitized by GOOGLE









Flag'-man, n.; pl. Flag'-man. One who is employed to make signals by means of flags.
Flag'on, n. [Fr. flagon; Lat. lagena, from Gr. lagenae, probably allied to lagen, the hollow of a cup.] A vessel with a narrow mouth, used for holding and conveying liquors; as, a flagon of ale.

gon, full of potent juice." " His trusty Ac

Fla'grance, Fla'grancy, n. Quality of being flagrant; notoriousness: excess; enormity; heinousness.
Fla'grant, a. [Lat. flagrans—flagro, to flare, to flame, to burn.] Flaming; burning; blazing; glowing; ardent; a. flagrant desires. as, flagrant desires.

"The beadle's lash still flagrant on their back."—Prior.

-Flaming in notice; glaring; notorious; enormous; as, a hagrant crime. — Raging; actively in preparation or execution; as, a war was flagrant.
Flagramelly, adv. In a flagrant manner; glaringly;

notoriousy.

Flag ship, s. (Naval.) The ship of a fleet or squadron, which carries the admiral's or commodore's flag, or broad pennant; as, Nelson's flag-ship, the 'Victory.'

Flag staff, s. The staff or pole on which a flag is

boisted.

Flag'staff, in Arizona, a post-village, cap. of Coconino co. 85 m. N. E. of Prescott. Pop. (1897) about 1,400.

Flag'staff, in Maine, a post-office of Somerset co.

Flag'stone, n. (Mn.) Sandstones, calcareous sandstones, argillaceous limestones or hornblende slates of stones, argulaceous limestones or normiende slates of considerable hardness and toughness, flatty bedded and more or less flasile, splitting into large thick slabs, useful for paving, are called P. Granite is also used extensively for the same purpose.

Flag-worm, n. A worm found in flaggy and sedgy

Finite. A worm tound in naggy and seegy ground.

Finit. n. [Ger. fieuel; Fr. fiéau, from Lat. fiagellum, a whip or scourge. See Flagellate.] A wooden instrument for threshing or beating grain from the ear by hand. (Antiq.) A military weapon, used in ancient times, consisting of an instrument resembling the ordinary F., but with the striking part armed with bosses or spikes.

Finke, n. [A. S. fiacea, flakes of snow; Ger. fiockr. down; Icel. ficki, a thick lock of wool; akin to Lat. fioceas, a lock of wool. See Floor.] A layer or stratum of snowy particles; a small scale-like collection of snow, as it falls from the clouds or from the air; a little bunch or cluster of snowy crystals; any sealy matter in layers; any mass cleaving off in scales; as, a fake of metal.—A sort of carnation, bi-colored, with large striped leaves.—A platform of burdles, or small sticks made fast or interwords, supported by stanchions, for drying codfish, and other things.

(Nauk.) A frame-work, or stage of boards, suspended

hings. (Naul.) A frame-work, or stage of boards, suspended over a ship's side for caulkers, &c., to stand on -r. a. To form into flakes or bodies loosely connected.

"Mould the round hall, or fake the fleety snow."—Pope.

—. R. To break into lamines, or layers; to peel or scale off.

Fiake'-white, n. (Puinting.) A pigment, consisting of a preparation of carbonate of lead. It is much used in painting in body-colors, being a substance with which transparent colors derived from vegetable matter may be mixed and rendered opaque, so that they may be laid on veilum or paper in the form of an even coating, possessing some degree of thickness and consistency. It is also used for putting in the high lights in drawings in water-colors, and crayon-drawings in two or three tints; but it is apt to become brown and discolored in course of time. Chinese-white, or marine-white, both of which are preparations of carbonate of zinc, are far better for this purpose and as a vehicle for preparing body-colors from simple water-colors, as they afford a white pigment of the purest nature, which will always retain its brilliancy unimpaired and untarnished by exposure to the atmosphere.

Flak'iness, w. The state of being flaky.
Flak'y, a. Consisting of flakes, locks, or layers; cleaving of in scales; lying in flakes.

And faty darkness breaks within the Rast." - Shake Flamboy'ant, n. [Fr., from Lat. flamma, a flame.]
(Arch.) The name given to a French ecclesiastical archi-



Fig. 1025. — HARFLEUR, NORMANDY, (FRANCE.)

tecture of the 15th century, derived from the beautifully carved tracery of the windows, which appears to run in waving lines somewhat resembling the various directions taken by lambent fismes of fire. This style of French-Gothic architecture is also known as Ogival Tertaire; it corresponds in a great measure with the Perpendicular English or third Pointed style; but it is characterized by far more elaborate ornamentation; and objects of rectilinear form and outline, which constitute such a marked feature of the latter style, are not so frequently introduced.

such a marked reactive of the latter style, are not so frequently introduced.

Flambeau, (flam'oō,) n. [Fr., from Lat. flamma, a blaze, a blazing fire.] A flaming torch; a light or luminary made of thick wicks covered with wax, and used as

"The king seized a flambeau with zeal to destroy."-Dryden.

"The king seized a fambess with real to destroy."—Dryden.
Flams borough Head, a bold promontory of England, on the Yorkshire coast, projecting a considerable distance into the sen; Lat. 54°7'N., Lon. 0°5'W. This is at once the most striking and most celebrated headland on the E. coast of the kingdom, rising 450 ft. aheer above the sea, having on its summit a light-house, 214 feet high, showing a revolving light. Vast caverns, haunted by myriads of sea-fowl, penetrate deeply through this headland.

Battle of. See Jones (PAUL).
Flamme, n. [Fr. famme; Lat. famma, fagma, from the root fag, whence fagro, to fame, to blaze, to burn; Gr. phttpo, to burn; Sansk. bhrdj, to shine.] Light emitted from fire; a blaze; a blazing fire; burning vapor; in-

from fire; a blazis; a blazing fire; burning vapor; in-flammable gas in combustion; fire in general; combus-tion.— Heat of passion; tumult; violent contention; ar-dor of temper or imagination; brightness of fancy; vigor of thought; glowing fervor or enthusiasm.

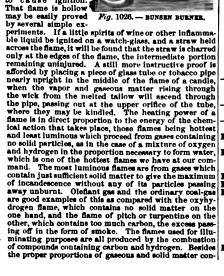
"Great are their faults, but glorious is their Acme."- Waller. -Fervor of inclination; ardent love; warmth of affection as, the fame of passion.

"We . . . met congenial, mingling flame with flame."-Pope A sweetheart; one to whom affection is plighted; a person beloved. (Used colloquially.)

(Chem.) F may be defined as a shell of incandescent

(Com.) F. may be deemed as a seel of incandescent matter surrounding a mass of combustible vapor. To produce flame it is therefore necessary that the burning body should be capable of volatilization just below the temperature at which it undergoes combustion. Char-coal or iron will burn with a steady glow, more or less

luminous according to the medium in which they are burnt, nei-ther of these substances being suscep-tible of volatilization at the temperature at which combustion takes place. A piece of wood or paper, on of wood or paper, on the contrary, burns with a large luminous flame, in consequence of the combustible matter of which it is composed rising in vapor or becoming converted into mixed gases at the temperature required for kindling the substance. Flame is, in fact, produced whenever a continuous supolar of inflamments. ever a continuous sup-ply of inflammable ply of inflammable vapor or gas is made to combine with a supporter of combustion, such as the atmosphere, at a sufficiently elevated temperature to cause ignition. That flame is hollow may be easily proved by several simple ex-



tained in illuminating substances, care must be taken to regulate the supply of air. By paying proper attention to this, many substances are greatly improved in their illuminating properties, while others are made to give an intense light, which could not otherwise be burnt. The Argand burner (q.v.) and chimney, as applied to gas and camphene, are examples of this. Flame has 3 distinct parts: the central or non-luminous part, where there carbon begins to separate from the hydrogen; the 2d or luminous part, where the carbon is for a moment free and heated to a white heat; and the exterior part, which is the hottest, and where which is the hottest, and where the combustion is complete. It is easy now to understand of what importance is the form of the burner, and how it may be modi-fied accordingly as we desire light or heat. If we wish light, the carbon must be protected for some seconds from contact with some seconds from contact with the air; but not long enough to allow it to pass off unconsumed. If, on the contrary, heat is de-sired, the carbon must be burned as quickly as possible. The Ger-man chemist Bunsen constructed a gas burner after this theory (Fig. 1026), which is perfectly adapted to the production of heat. In this burner the ordinary

near. In this ourner the ordinary illuminating gas is conveyed into a wide tube, at the base of which is a great number of small holes for the admission of air. The air is thus intimately mixed with the gas;

mixed with the gas; and it is this mix-ture, of which the proportions are reg-ulated by the dimen-sions of the open-ings, that is ignited at the top of the tube. The flame obtained is yeary nale, but invery pale, but in-tensely hot. If we shut the small holes that allow the admission of air, the flame becomes brilliant, but is not so hot. Every mixture of gases requires a cer-tain temperature to inflame it: and if the temperature be not reached, the mixture does not take fire; we may thus cool down a flame so much that it goes out by placing over it a small coil of cold copper wire, whereas if the coil he pre-viously heated, the flame will continue

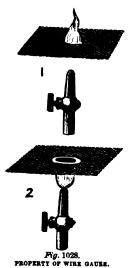


Fig. 1027

CANDLE-FLAME.

viously heated, the fame will continue property of wire Gauze he held close over a jet of gas and the gas lit, the gauze may be removed several inches above the jet, and yet the inflammable gas below will not take fire, the fiame burning only above the gauze (Fig. 1028). If the gauze be pressed down upon the fiame, its hollow structure may be shown, also the fact that while inflammable gasee pass through the gauze, there is not sufficient heat above it to ignite them (Fig. 1028). In both these cases the gauze conducts away the heat so quickly that the temperature of the gas on the side opposite the fiame does not rise to the point of ignition. This is the principle made use of by Sir H. Davy in his satety-lamp for mines.—See Davy's Safety-Lamp.

—. n. To blaze; to burn in vapor, or in a current; to shine like ignited gas.

"Hell all around as one great furnace fam'd." — Millon.

"Hell all around as one great furnace flam'd." — Milto

To break out in violence of passion; to be kindled with

"Ten all avoid as one great turnace pam a. — muon.

To break out in violence of passion; to be kindled with zeal or ardor; to rage; as, hers is a flaming temper.

—e. a. To inflame; to kindle; to rouse; to excite; as, "flam'd with zeal of vengeance."— Spenser.

Flame'-color, n. (Painting.) Pale yellow or orange color, resembling that of flame.

Flame'-colored, (-kūl'urd,) a. Of a color resembling flame; of bright-yellow in color; as, "flame-colored stockings."— Shaks.

Flame'less, a. Without flame.

Flame'less, a. Without flame.

Flame'less, a. A small flame.

Flame'less, a. A small flame.

Flame'less, n.; pl. Eng. Flamens; Lat. pl. Flamines.]

[lat.] (Rom. Antiq.) The name given to any Roman who was devoted to the service of one particular god. Each flamen received a distinguishing epithet from the name of the deity to whom he ministered. The most dignified were those of Jupiter, Mars, and Quirinus, and were called respectively Flamen Dialis. Plamen Morticitis.

Flamin'ecous, a. Pertaining or relating to a flamen or the flamines.

Flam'ingly, adv. With great show or vehemence; most brightly.

FLAN

most brightly.

[Sp. flamenco, from Lat flamma.]

[Zool.] The common name of the gen. of birds flamma.]

[Lool.] The common name of the gen. of birds flamicopterus, order Grallatores. The F is one of the most remarkable of all the aquatic birds for its size, beauty, and, as some say, also for the delicacy of its fiesh. Its body is smaller than that of the Stork; but owing to the great length of neck and legs, it stands nearly five feet high, and measures six feet from the point of the beak to the tip of the claws. The head is small and round, and furnished with a bill nearly seven inches long, which is higher than it is wide, light and hollow, having a membrane at the base. Flamin'go, s. [

brane at the base, and suddenly curved down wards from the middle. The long legs and thighs of this bird are extremely slender and delicate, as is and delicate, as is also the neck. The plumage is not less remarkable than its figure, being of a bright scarlet. Flamingoes inhabit the warm climates of Asia, Africa, and America; they live and migrate in large flocks, frequently desert sea-coasts and salt marshes. They are extreme-ly shy and watch-ful; while feeding,



Fig. 1029. — FLAMINGO. (Phamicopi

ful; while feeding, they keep to getter, drawn up artificially in lines, which at a distance resemble those of an army; and, like many other gregarious birds, they employ some to act as sentineis, for the security of the rest. On the approach of danger, these give warning by a loud sound, like that of a trumpet, which is the signal for the flock to take wing; and when flying they form a triangle. Their food appears to be molluscous animals, spawn, and insects, which they fish up by means of their long neck, turning their head in such a manner as to take advantage. sects, which they fish up by means of their long neck, turning their head in such a manner as to take advantage of the crook in their beak. Their nest is of singular construction; it is formed of mud in the shape of a hillock, with a cavity at the top, and of such a height as to admit of the bird's sitting on it, or rather standing, her long legs being placed one on each side at full length; thus situated, the female generally lays two or three white eggs somewhat larger than those of a goose. In some parts these birds are tamed, principally for the sake of their skins, which are covered with a very fine down, and applicable to all purposes. There are two species:

1. Phasicopterus antiquorus, which is of a rose color, with red wings, the quills being black; these inhabit the warm regions of Asia, migrating in summer to southern, and sometimes to central Europe; these beautiful birds were much esteemed by the Romans, who often used them in their grand sacrifices and sumptuous enterused them in their grand sacrifices and sumptuous enter-tainments; and such of the luxurious emperors as wished tainments; and such of the luxurious emperors as wished to indulge in the very excess of epicurism, were wont to gratify their guests with a dish of Flamingoes' tongues! 2. Praniorpterus ruber [Fig. 1029]; deep red; with black quills; which are peculiar to tropical America, migrating in the aummer to the Southern, but rarely to the Middle States.

Flamin's Vis. (Antiq.) A celebrated road, which led from Rome to Arsinum and Aquilea. It received its name from the consul Flaminius, who built it.

Flamin's us., or Flamin's was. T. Quinvius, a distinguished Roman general, made consul B. c. 198. He was sent to Macedonia, and had the honor of terminating the Macedonian war by the defeat of Philip at Cynoscephales, B. c. 197. At the Lithmian Games of the fol-

the Macedonian war by the defeat of Philip at Cynoscephales, B. C. 197. At the Isthmian Games of the following year he had formal proclamation made of the restoration of Greece to independence. He remained in Greece till 194, to organize the new administration of the cities, and by his wisdom, forbearance, and humanity won the general esteem and gratitude of the people. Before he returned to Rome he made war on Nabis, tyrant of Sparta, and compelled him to make peace with the Romans. F. had a triumph of three days on his return, was sent again to Greece in 192, and in 183 he went as ambassador to Prusias, king of Bithynia, to demand the surrender of Hannibal, who had taken refuge at his court. D. about 175.

refuge at his court. D. about 175.

Flammiferous, a. [Lat. flammifer — flamma, flame, and ferre, to bear.] Tending to produce flame; emitting flame

ring name.

Flammiv'omous, a. [From Lat. flamma, and vomere, to vomit.] Vomiting out flame, as a volcano.

Flam'y, a. Blaxing; flaming; having the nature or
color of flame.

color of flame.

Flamch, n. (Her.) An ordinary formed on each side of the shield by the segment of a circle.

Flamconade', n. (Facing.) A thrust made in the side.

Flam'ders, the name of a very interesting and early civilized portion of Europe, forming two contignous provs. of Beigium, termed East Flanders and West Flanders, respectively. Lat. between 50° 40′ and 51° ... 3° N., Lon. 2° 37′ and 4° 23′ E. It is bounded on the N.W. by the N. Sea, and inclosed on its other sides by the provs. of Antwerp, Zealand, S. Brabant, Hainault, and the French dep. Nord. — East Flanders is separated

from W. Flanders by a line running almost due S. from from W. Flanders by a line running almost due 8. from Sluya, a small town nearly opposite Flushing. Area, 1,154 sq. m. Surface, level in the N. part, while to the 8. it consists of undulating plains. Soil, heavy loam, and highly fertile. Cup. Ghent. Pop. 855,504.—WEST FLANDERS has a considerable coast-line, in the central part of which is the port of Ostend. This side faces the N, but the W. boundary of the province adjoins the French territory. Area. 1,243 sq. m. Surface, generally level, excepting the dunes, or sand-hills, on the coast. Soil, fertile, and agriculture good. Cup. Bruges.—For productions, manufactures, &c., and history, see Belgium. BRIGIUM.

Flam'ders, in New Jersey, a post-village of Morris co, about 55 m. N.E. of Trenton.

Flamders, in New York, a post-village of Suffolk co, on Long Island, alout 225 m. S.E. of Albany.

Flamders Var'mish, n. (Paint.) A varnish prepared by the dissolution of grain mastic in sicohol.

Flam'dreau, in South Dakota, a post-village, cap. of Moody co., 39 m. N. of Sioux Falls. Pop. (1895) 764.

Flam'drim, Jan Hippoutts, a French painter, B. at Lyons, 1809: b. 1864. Among his chief works are Dante and Virgil, Saint Louis dictant ses Etablissements, for the Chamber of Peers; Mater Dolorous, Saint Louis taking the Cross the second time, and the fine series of freeces in the churches of St. Germain-des-Près and St. Vincent de Paul, which are reckoned among the masterpieces of modern painting.

de Paul, which are reckoned among the masterpieces of modern painting.

Flange, (fanj,) n. [Probably from O. Fr. fanchere, a flanker, a side-piece, or flanked piece of timber in building, from fance, a flank.] (Mcch.) A projecting rim or rib. The metal rim bent over in gas-pipes, waterpipes, &c., in order to join on to other lengths of the same. The term is also applied to the projecting outside circumference of a railway-carriage-wheel, by which the whoel is prevented from running off the rails.

—v. a. (Mach.) To make a flange on.

—v. a. To take the form and quality of a flange; to be curved into a flange;

-v. a. (Mach.) To make a lange on-v. n. To take the form and quality of a flange; to be curved into a flange.

Flanged, a. Having a flange; connected together by means of flanges; as, a flanged wheel.

Flank, (flangk.) n. [Fr. flanc; It. flanco; Bp. flanco; Ger. flanke.] One of the two parts of the body which enable it to bend; the part of the side of an animal between the ribe and the hip.

(Mil.) Either side of a body of troops; the extremities of a body of soldiers in line, or the sides of a column, being termed the right and left flanks respectively.—

In any defensive work, it is applied to that part from which a fire may be directed against the side or flank of an attacking party. Thue, the flanks of a bastion (see Fig. 745) are those parts of the rampart and parapet which connect its faces with the extremities of the curtains of the enceinte on either side of it. On reference to the diagram of a front of fortification given in the article on that science (see Fortifications), it will be seen that a fire from the flanks is effective in preventing seen that a fire from the flanks is effective in preventing an attacking party from effecting a lodgment at the foot of the curtain that lies between them, which might root of the curtain that lies between them, which might be done with comparative ease and security if these por-tions of the work did not exist. A fire from the flanks of any bastion enflades the ditch at the foot of the curtain.

urtain.
(Arch.) The side of any building.
(Mach.) The straight part of the tooth of a wheel
hich receives the impulse.

which receives the impulse.

pl. (Furriery.) A wrench, strain, or other injury received by a horse in the back.

e. a. [Fr. flanquer.] To stand at the side or border of.

"Stately colonnades are flank'd with trees."—Pitt.

(Mil.) To attack, as the side or flank of a body of troops; to place, as troops, so as to attack or command the flank; to post so as to overlook or command on the side; to secure or guard on the side; to turn, as the flank; to pass round the side of.

"On the left they stand, and fank the passage.

—v. n. To border; to touch. — To be posted on the side; as, our brigade was flanked by the light division. Flank'ard, n. (Venery.) One of the nuts in the flanks

Flank'er, n. He who, or that which, flanks; as, to

rassamer, n. He who, or that which, flanks; as, to throw out flankers.

-v. a. To defend by lateral fortifications.
(Mil.) To attack by the flank, or sideways.
Flans'nel, n. [Fr. flanclle, allied to Lat. lana, wool Ger. flancll; Du. flancl; Dan. flonel; Ir. plainin.]
(Manuf.) A soft, nappy, woollen stuff, of loose texture. See Woot.

Flannelled, (flan'eld,) a. Wrapped in flannel; as

flamelled gouty foot.

Flam'ning, n. (Arch.) The internal splay of a window

jamb.

Jamp. n. [Du.; Ger. lappen, and klappen, allied to tap, clap, and slap, and probably formed from the sound of a blow from a limber, broad, flat surface.] Anything broad and limber that hangs loose, and is easily set in motion, or is attached to one side only; as, the flap of a hat.

The motion of anything broad of the limber than the same of the

or a nat.

The motion of anything broad and loose, or a stroke with it; as, the flap of an eagle's wing.—The loose part of a coat behind from the hip downward.

-pl. (Farriery.) A disease in horses, occurring in the lips -v. a. To beat or strike with a flap.

"Yet let me flop this bug with gilded wings."-Pope. To move, as something broad; to let fall, as the brim of a hat,

"The raven sapp'd his wing."—Tickell.

-v. n- To move and sound, as wings, or as something broad

and loose; as, the flapping of a duck. — To fall, as the brim of a hat or other broad thing.

"The powdered footman's care
Beneath his flapping hat secures his hair."—Gag.

Beneath his fapping hat secures his hair."—Gay.

Flap'-dragon, n. See Snap-Dagon.

Flap'-dared, a. Having broad, loose, limp cars.

"A bestle-headed, fap-eared knave."—Shake.

Flap'-gack, n. A sort of broad pancake; also, an applepuff.

Flap'-mouthed, a. Having loose, hanging lips.

Flap'-per, n. The person or thing which flaps.

Flape'per, n. The person or thing which flaps.

Flape, r. n. [Probably a corruption of Glanz, q. v.] To burn with a wavering, unsteady, or fluttering light; as, a faring candle.—To flutter with splendid show; to glitter with transient lustre, or with painful splendor; as, "the sun's flaring beams." (Millon.)

—To be exposed to to much light.

To be exposed to too much light.

"I cannot stay

Flaring in sunshine all the day."—Prior.

Plaring in sunshine all the day."—Frior.

To pone externally; to spread outward.

To flare up, to get excited, or into a rage; as, how he flared up?

—n. A broad, unsteady, glaring light. — A leaf of lard.

Flare'up, n. An outbreak of passion; an altercation; an uprour; a row; a shindy.

"There was presty flare-up at the Wiggeness last night." Jerreld.

Flane'up. (Shinbellding) Overshapring as in the

Flaring, a. (Ship-building.) Over-hanging, as in the top side forward.

Flaringly, adv. In a flaring manner.

Flash, n. [Fr. flèche; Sansk. ush, to burn, to shine; second pret. useth.] A sudden burst of flame or light; a flood of light of instantaneous appearance and dispersions as the fill of the light appearance; as, a flash of lightning.—A sudden burst, as of wit or merriment; as, "the flash and outbreak of a flery mind." (Shaks.)—A short, brief period; a momentary or transient state.
"The Persians and Macedonians

nians had it for a fle A reservoir letting off its surplus waters by a sluice-way; a body of water violently breaking forth.—In some parts of England, a pool; as, a mill \*fash.—A preparation for coloring rum, brandy, &c. Slang language; a vulgar tongue; the cant in vogue among the most disreputable members of society, as

among the most usreplutate memoers of society, as thieves, prostitutes, &c.

-a. Low; vulgar; vile; as, fash language, a fash cove, &c.

-a. Dreak forth, as a sudden flood of flame and light; to burst or open instantly on the sight; to show a transient brilliancy; as, "The object is made to flash on the eye of the mind." — Matt. Arnold.

To break out, as a sudden expression of wit, merriment, or bright fancy.

Of Dright hancy.

"They flash out sometimes into an irregular greatness of thought.

Potton.

To break out into a sudden and momentary flame. "Why Mask those sparks of fury from your eyes?

To strike or to throw like a burst of light: to convey by a quick and startling motion; as, to flash a message along the wires.

Flash'er, s. A man of more appearance of wit than

reality.

Flash'-house, Flash'-ken, n. A house which forms a rendezvous for thieves; a receptacle for stolen

forms a remeavous for anisves, a recognition of goods, &c.

Flash'ily, adv. With empty show; with a sudden, momentary glare; without solidity of wit or thought; gandily and emptily; as, a facthly dressed person.

Flash'ing, n. Act of blazing; a sudden burst of light.

The formation of an artificial flood, by the letting in of

-The formation of an arthricial flood, by the letting in or a body of water.

(Arch.) A piece of lead, or other metal, let into the joints of a wall so as to lap over the gutters or other conduit pleces, and prevent the splashing of rain from injuring the internal work.

injuring the internal work.

Flash'y, a. Dazzling momentarily; not solid; with a sudden glare of transient brilliance; as, "a flashy pleasure." (Barrow.)— Showy, but empty; gaudy; gay; florid in style or color; as, a flashy costume, a flashy wit.— Insipid; vapid; inert; without taste, force, or spirit; inconstant; as, "lean, flashy, songs."— Millon.

Flash, n. [A. S. flaze; Dan, flashe; Ger flasche; L. Lat. flasca, flaco. Same as Flagon, q. v.] A vessel with a long narrow neck for containing fluids; as, a flask of oil or wine, a spirit flask &c.

oil or wine, a spirit flask, &c.

"With champagne fill each man his fe A powder-horn; portable receptacle for gunpowder. Powder in a skilless soldier's flask is set on fire."

(Found in a semess solder's gaze is set on me. — Sazes.

(Founding.) A shallow frame of wood or of fron used for holding the sand employed in moulding.

Flask'et, n. (W. flasged, a wicker vessel.) A vessel in which viands are served up at table.

"The silver stands with golden flaskets graced." — Pope.

"The silver stands with golden Rassets graced."— Page.
An oblong basket of shallow capacity.
"lat, a. [Dan. flat; Swed. platt and flat; L. Sax. and
Ger. platt; Fr. plat; Icel. flak.] Having an even extended surface, without risings or indentures, hills
at one valleys; horizontal; level, or with a moderate inclination; without marked prominences; plain; as, a flat Fiat, a.

country.

Prostrate; lying the whole length on the ground; not elevated or erect; level with the ground; failen; laid low; as, to fall flat down.

"What rains kingdoms, and lays cities fat?" — Million.

Tasteless; stale; vapid; insipid; monotonous; dull; frigid; wanting relief or variety; as, conversation became flat.

"Pleasing to sight, rue inclogant and flat." – PhQ4 But to the tongue incles Lifeless; depressed; inert; low; spiritiess; dejected; lacking life and animation; as, the market is flat.
"I feel my genial spirits droop, my hopes all flat." Affices.

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[11] set march thre' Coventry with them, that's flat."— Shake.

(Mas.) Not acute; not sharp;—lower by a semitone;

flat; — below true pitch.

on.) Uttered with voice instead of breath; vocal;

sonant.

Fint, n. A level; a level or extended plain; a low, even tract of surface; aa, "the glooming flats." — Tennyson.

— A level ground lying at a small depth under the surface. -A level ground lying at a small depth under the surface of water; a shallow; a shoal; a strand; as, "these flats are taken by the tide."—Shakt.

-The bread side of a blade; as, the flat of a sword.
(Nout) A flat-bottomed boat; a kind of barge having a broad beam; a lighter; as, a coal flat.
(Arch.) In Scotland, a floor or story in a building; as, he lives on the third flat.

-A numskull: a fool; a thickhead; a simpleton. (Vulgar.)

ech, because you are a Aut."

(Mach.) A railroad platform-car.

(Mach.) A railroad platform-car.
(Mas.) A character of the form b, which depresses
the note before which it is placed a chromatic semitone.
Thus Db signifies a semitone below D natural (a). On
keyed instruments the short keys are the representative
of these flats and sharps. — An accidental flat is one of these nate and sharps.—An accidental full is one which although not occurring at the commencement of the staff, is inserted in any other part of it, and only affects the bar in which it is placed.—A flat fifth is an interval of a fifth depressed by a flat.

Flat, v. a. To make flat, even, or level; to flatten; as, a newaboy fattens his nose against an eating-house visidor.

To depress; to make dull, vapid, inert, or spiritless.

—To lower in pitch or tone, as a note in music.

—v. s. To grow flat; to flatten; to sluk; to fall to an even surface; —opposed to swell.

(Mus.) To break down from the pitch. — To flat out,

to bring to a lame and impotent conclusion.

Flat'breek, in New York, a post-office of Columbia co.

Flat'breek, in New York, a post-office of Columbia co.

Flat'breek ville, in New Jersey, a post-village of
Sussex co., on the Delaware river, about 18 m. W. of

Sussex co., on the Delaware river, about 18 m. W. of Norton.

Plat'bush, in New York, formerly a post-village and township of Kings co.; annexed to Brooklyn in 1894, and now (1897) a part of Greater New York. Near this village the American army was defeated during the Revolution in 1776.

Plat Creek, in Alabama, enters the Alabama River from Monroe co.

Plat Creek, in Georgia, enters the Ocmulgee River from Twigg's co.

Plat Creek, in Missouri, a post-office of Barry co.

Plat Creek, in New York, a !! O. of Montgomery co.

Plat Creek, in New York, a !! O. of Montgomery co.

Plat Creek, in Virginia, enters the Appomatiox River from Amelia co.

Plat'footed, a. Firm-footed; determined.

Plat Fork, in W. Virginia, a post-office of Ronne co.

Plat'head, in M. mana, a post-office of Missoula co.

Plat'head In'dlama, also called Salish or Sriish, a tribe of American Indians who formerly inhabited a territory between Lat 49° and 50° N. and Jon. 117° and 121° W. now part of Washington. Having become sami-civilized, this tribe was removed (1871) to the 121° W, now part of Washington. Having become

Joko Valley, Montana, and now numbers about 1,000. So called on account of a practice formerly prevalent among them of flattening the heads of their infants by among them of flattening the heads of their infants by artificial means. They are short of stature and bady formed, with wide mouth, thick nose and lips, and large nostrils. The flattening of the head was accomplished by subjecting the skull of the infant to severe mechanical pressure during the first six or eight months of its life. The operation did not appear to diminish the cranial capacity or whole volume of the brain.

\*\*Int\*-Iron\*\*, \*\*. An instrument for smoothing cloth; a setting.

Flat kill Creek, in New Jersey, enters the Delaware

River 1-t. Sussex and Warren cos.

Flat lands, in New York, a post-village and township of King's co., abt. 7 m. 8 S.E. of the city of Brook.

lyn. Lick, in Kentucky, a post-office of Knox co. Flatling, adv. With the flat side; flatlong. Flatlings, adv. Not edgewise; flatlong. (R.) Flatlong, adv. With the flat side downwards; not

at a blow was there given ? As it had fallen flatlong." Sh Fint'ly, adv. Horizontally: evenly; without spirit; frigidly; positively; downright.

He in these wars had flatly refused his aid. "

Fint'mess, m. State or quality of being flat.— Evenness or levelness of surface; want of relief or prominence; as, the flatness of a country, the flatness of a Agure

FLAU

—A por-village of Snelvy co., about 12 m. S. by w. or Shelbyville.

Flat Rock., in Keniucly, a post-office of Pulaski co. Flat Rock., in Michigas. a post-village of Wayne co., on Huron river, about 25 m. S.W. of Detroit. Flat Rock., in Missouri, a village of Cape Girardeau co., about 180 m. E. S. E. of Jefferson City.

Flat Rock, in North Carolina, a post-office of Hender son county.

Flat Rock, in Okio, a flourishing township of Henry

county.

—A post-office of Seneca co.

Flat Rock, in South Curolina, a P. O. of Kershaw co.

Flat Rock Creek, (Ind. Puck-up-lah,) in Indiana
rises in Henry co., and flowing generally S.W. through rises in Henry co., and flowing generally S.W. through Rust, Decatur, and Shelby cos., enters the E. or Driftwood Fork of White River at Columbus in Bartholomew co.; length abt. 100 m.

Flat Book Creeks, in S. Carolina, enters the Wateree River at Sm. N.W. of Canden.

Flat Shoal Creeks, in Georgia, enters the Chattalioochee River in Harris co.

Flat Shoals, or Flut Shoal Factory, in Georgia, a post-village of Meriwether co., on Flint River, about 95 m. W. of Milledgeville.

Flatten, (fat'n.) c. a. To make flat; to reduce to an

m. W. of Milledgeville.

Finttem, (fat'n,) r. a. To make flat; to reduce to an equal, level, or even surface; to level.—To beat down; to lay flat;—hence, to deject; to dispirit; to depress. To make vapid or insipid.

(Mss.) To lower or let fall the pitch.

To fatten a sail. (Nast.) To apread a sail lengthwise of a ship, occasioning a lateral effect only.

—v. n. To grow or become flat or even on the surface; to become dead, stale, vapid, or tasteless; to become dull, inert, or spiritless; to become, as a sound, less sharp or acute.

Fint'ter, n. He who or that which makes flat. — Among

FIRTUOF, R. He who or that which makes has - allowed blacksmiths, a flat swage.

First ter, v. a. [Fr.; probably from L. Aatdre, freq. from No. Natum, to blow; icel. Nadra, to deceive by blandishments.] To inflate with blandishments or exaggerated praise; to deceive with fair words; to cajole; to wheedle; to coax; to attempt to win by artful compliments.— To soothe or gratify by praise or obsequiousness; to please a person by applause or favorable notice; to com-pliment.—To praise falsely; to encourage by favorable but insincere notice, representations, or indications; to raise false hopes in.

" Mother . . . lay not that flattering unction to your so Flat'terblind, v. a. To blind with flattery or false

praise. (R.)

Flat'terer, n. One who flatters; a wheedler; a fawner; a lick-spittle; one who endeavors to gain favor by pleasing but undue praise.

te into the greatest tyrants

Flat'teringly, adv. In a flattering manner.
Flat'tery, n. [Fr. flatterie.] Act of one who flatters;
false praise: adulation; obsequiousness; wheedling; sycophancy; just commendation which gratifies self-love.

" Plattery's the food of fools." - Swift.

Flat'sing, a. In house-painting, a mode of painting in which the surface is left, when finished, without gloss. The material is prepared with a mixture of oil of turpentine, which secures the colors, and, when used in the finishing, leaves the paint quite dead.—A mode of keeping gliding in a dead or unburnished state, by slightly sixing it.—Rolling out of metal, as iron, &c., into sheets by the process of excluding necessaria.

alightly sixing it. — Rolling out of metal, as iron, &c., into sheets, by the process of cylindric pressure.

Flat'tish, a. Tending to fixtness; somewhat flat.

Flat'whenee, Flat ulency, n. [Lat. flatus, a blast.]
(Mad.) A morbid collection of gases in the stomach and bowels, commonly arising from indigestion, or from indugence in certain kinds of vegetable food. When, from any weakness in the digestive powers, food remains in the stomach in an undigested state, formentation takes place, and gases are formed. F. is usually symptomatic of other diseases — indigestion, colic, cholera, brateria, or nervous delaility. For its cure, carminers era, hysteria, or nervous debility. For its cure, carminatives, tonics, and aperients are resorted to; and strict attention to diet is necessary, taking only such food as is light and easy of digestion, and avoiding all oleraceous vegetables, peas, beans, and fatulent fruits. Weak braudy and water, as a beverage at dinner, is also very beneficial. When the aneficial. When the pain is excessive, hot applications the stomach and frictions will frequently afford considerable relief.

siderable relief.

Flat'ulemt, a. [L. Lat. fatulentus, from flo, fatus, to blow.] Windy: affected with air generated in the stomach and intestines. — Turgid with air; as, a fatulent tumor. (Quincy.)—Generating, or apt to generate wind in the stomach; as, "peas are fatulent." (Arbuthnot.) ach and intestines. — Turgid with air; as, a futulent tumor. (Quancy.)—Generating, or apt to generate wind in the stomach; as, "peas are futulent." (Arbuthnot.) — Empty; vain; puffy; pretentions without substance; as, "a fatulent writer." — Dryden.
Flat'ulently, adr. In a fatulent manner.
Flat'us, n. [lat, from fure, to blow.] Flatulence; an accumulation of generated air in the cavities of the atomach.

Deadness; dulness; insipidity; vapidness; as, flatness of cider. — Dejection; depression: lack of spirit or vivacity; mental prostration.—Lack of variety; insipidity; dulness. (Mus.) Gravity of pitch; as, flatness of sound. (Used in contradistinction to sharpness.)

Flat River, in Missouri, a P. O. of St. Francois co.

Flat River, in Missouri, a P. O. of St. Francois co.

Flat River, in N. Curolina, enters the Neuse River from Wake co.

—A post-office of Durham co.

Flat Rock, in Georgia, a post-office of Muscogee co., about 10 in N. E. of Columbus.

Flat Rock, in Illinois, a post-office of Crawford co.

Flat Rock, in Indiana, a township of textholomew county.

Peremptory; absolute: positive; downright; as, a flat —A post-village of Shelby co., about 12 m. S. by W. of Finut'ingly, adv. In a flaunting way or manner. Finut'ingly, adv. In a flaunting way or manner. Shelbyville.

a flutist.
Flaves'comt, a. [Lat. flavescens, from flavus, yellow.] Yellowish.

Flavic'omous, a. [From Lat. flavus, and coma, hair.] Yellow-haired.

Flavius, the name of a plebeian family of Rome, from which came the emperors Vespasian, Titus, and Domitian.

tian.

Finvor, Finvour, (fd'rér,) n. [Fr. fairer, to smell, to suiff, to scent.] Quality of that which affects the sense of smell; odur; fragrance: as, the flavor of a bounce. sense of smell; cour; irregame; as, the hard of a too-quet of flowers. — Quality of anything which affects or gratifies the taste or palate; relish; savor; gusto; as, sherry of a nutty favor. — The quality of a substance which affects the smell or taste in any manner. -r. a. To communicate some quality to a thing that may

affect the smell or taste.

affect the smell or taste.

Flavored, Flavoured, (fd'vérd,) p. a. Possessing flavor; having an agreeable taste; as, high-flavored game.

Flavorens, a. Wanting flavor; insipid; tasteless.

Flavorens, a. Agreeable to the taste or smell; imparting flavor.

Flavorous, a. Agreeable to the taste or smell; imparting flavor.

Plaw, n. [W. flaw, a splinter, from fla, a parting off or from; Gr. phlab, to crush, to bruise in pieces; Sansk. bal, to cut off.] A breach; a crack, a gap or fissure; a defect made by breaking or splitting; as, a flaw in a table. — A blemish; a defect; a fault; an imperfection; as, a flaw in a woman's reputstion, a flaw in a will, &c. — A timult; an uproar; a sudden burst of discorder; a row. disorder; a row.

"Calm the fury of this mad-brained flaw." -- 57

(Naut.) A sudden burst of wind; a sudden gust or blust of short duration.

"Snow and hail, and stormy gust and flew.

v.a. To break; to crack; to make a fissure in; to vio-late; to make unequal. "The cup was floor'd with a multitude of little cracks." — Bowle-

Flaw less, a. Free from flaw; without defect or blemish; as, a flawless star.
Flaw'y, a. Full of flaws or cracks; defective; faulty;

Subject to sudden gusts of wind.

-Subject to sudden guass of wind.

Flax, n. [A.8. fear; Fris. fear; D. vias; Ger. flachs.

Allied to Lat. pico, Gr. pilkō, to wear.] (Bot.) The common name of the genus of plants Linux, q.v.

(Manyf.) The flure of the Linux usitatissimum, sepa-

rated from the woody portion of the plant, and ridded of any impurities, after which it is spun into thread, from which state it is woven into Linen, q. r. It is supposed

to be the fruit of Egyptian discovery, as the cover-ings of the mum-mies found in the pyramids all at-test to their being composed of what is generally termed flax. The flax-plant is of slender form, and of annual growth. It reaches generally the height of from 2 to 3 feet, and has small lanceolate leaves, which ter-minate at the extremities in delicate blue flower which are after wards replaced by seed-vessels, con-taining each ten seeds. The plant itself grows over the whole extent of Europe, Asia, and America. The time for gather-



Fig. 1030 - FLAX. (Linum usitatissimum.)

ing the flax is when the leaves begin to drop off, and when the stalk has a yellow appearance. The stalks are then stripped, and the seed-bolls carefully gathered, and stored up for the next year's supply. The first process in the preparation of the flax is to steep the stalks in water until decomposition and fermentation take place; that causes decomposition and fermentation take place: that causes the glutinous matter which binds the woody and fibrous parts together, to become separated. The duration of this process is from six to twenty days, according to the quality of the water employed, and the state of the flax-plant. After the first process, the stalks are dried, and in this state they may be kept in sheaves for years. After the flax has been retted (as the first operation is called) and dried, it is broken, repeatedly beaten with a flat piece of wood, and also acutched, in order to remove all woody particles from the fibre. The last operation is termed heckling, which consists in combining the flax through and through, in order to separate the different through and through, in order to separate the different threads; after which it is prepared for the spinner's hands. This process is required as much to straighten the fibre, as to lessen any knots or irregularities in the flaments. The action of the heckles divides the scutched niaments. The action of the heckies divides the scutched fax into two portions,—the long ones, which remain straight after the operation, being termed lines, and the woolly mass tow. Both of these are sum; but the line affording better years, is, of course, the more rainable of

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Flax'-dresser, n.

Flax'-dressing, n. One who combs and prepares nax for the spinner.

Flax'-dressing, n. The process of breaking and swingling flax.

Flaxen. (flak'n).a. Made of flax: as, flazen thread.—

Resembling flax; of the color of flax; fair; as, flazen

Resembling flax; of the color of flax; lair, an, hair, a flazen wig.

Flax'mam, John, a celebrated English sculptor. B. at York, 1755. His father was a figure-moulder. The son, from his earliest years, exhibited and cultivated his talent for designing, and was also attracted by the picturesque conceptions of Greek mythology. He began to study at the Royal Academy in 1770, earning for some time a living by making designs for Wedgwood the potter, and other persons. He went to Italy in 1787, and during the seven years he spent there, his wife accompanying him, he acquired the highest reputation by three series of designs, the illustrations to Homer, Eschylus, and Dante. He was chosen A.R. in 1797, and cnylus, and Danie. He was chosen A.K.A. in 1797, and professor of sculpture in 1810. The monument to Lord Mansfield in Westminster Abbey, the group of Cephalus and Aurora, Prychz, the group of the Archangel Michael and Satan, are among his best works. He executed many exquisite bassi-relievi, compositions from Scripmany exquisite bassi-relievi, compositions from Scripture subjects, and marked by some special religious sentiment. The monuments to Nelson, Howe, and Reynolds in St. Paul's are by his hand. One of his latest and finest productions is the Shield of Achilles. D. 1826. The sculptures and sketches of Flaxman are now deposited and exhibited in a Gallery, called the "Flaxman Hall," at University College, London. His Lectures on Sculpture passed through a new edition in 1866.
Flax'seed, n. The seed of the flax-plant; linseed.
Flax'weed, n. (Bot.) See Linaria.
Flax'weed, n. (Bot.) See Linaria.
Flax'weedh, n. A female employed in spinning.
Flax'y, a. Like flax; flaxen; of a light color; fair.
Flay, v.a. [A.S. flaan; Gr. phloisō, to peel, from phloios, rind, peel, from phloio, to verdow; the bark or rind bursting when the tree overflows with sap.] To take the skin or rind off; to skin; to strip off; as, to flay an ox, to be flayed alive.

ox, to be flayed alive.

Tay'or, n. One who flays; one who strips off the hide er, n. or skin.

Flay'er, n. One who flays; one who strips off the hide or skin.

Flea, n. [A.S. Mea; D. vloo; Icel. M.; Ger. Moh. The root is found in A.S. Mogan, Meogan, to flee, to escape.] (2061.) The proper position of this insect in entomological classification has been the subject of much dispute. By many authorities, including the distinguished names of Latrellie, Kirby, and Spence, the Fleas (which form the Linnssan genus Pulez) are considered to form a distinct order; the former naturalist treating of them under the order Sphonaptera, and the latter, the order Aphaniptera. By others they have been arranged with the order Diptera, but with little reason, for in certain important characteristics they widely differ from them. Although, to all appearance, apterous, the flee possesses the rudiments of wings, which are four in number, in the form of horny plates, on the sides of the meto- and meta-thoractic segments, the hindmost pair being somewhat larger than the other. This distinctive character has been the basis of the classification of Spence, that we have adopted. See Aphaniptera. we have adopted. See APHANIPTERA.

we have adopted. See APHANIPTERA.

Flea bame, n. (Bot.) A name given to various plants of the genus Erigeron, from their supposed efficacy in driving away fleas. The leaves of Pyrethrum carneum and roseum of Europe and Asia are largely used in the preparation of Persian poseder, used to destroy insects.

Flea bite, n. The sting or bite of a flea; the red spot caused by such sting or bite.—Any small hurt or pain like that caused by the sting of a flea.

Flea bittem, a. Stung by fleas.—Mean; worthless; Fleak, n. [Lat. floccus, a twist of straw.] A small thread, lock, or twist.—Anything made of parts transversely laid.

versely laid.

versely laid.

Fleak'ing, n. A preparatory covering of reeds, over which the final covering is laid, in thatching a house.

Fleam, n. [Gr. phibbiomon, from phibbs, a vein, and temerin, to cut.] A sharp instrument used by farriers to bleed horses and cattle. It consists of a small, pointed blade, thrust from a sheath by means of a spring.

pointed blade, thrust from a sheath by means of a spring. Flear, n. & v. See Flee.
Flear, n. & v. See La Flee.
Flear, n. & V. See Flee.

proach to the fortifications.

Fieche, (La.,) a town of France. See LA FLECHE.

Fieche, Esprir, (flav'she-ai,) a French pulpit orator and prelate, B. at Pernes, 1632, county of Avignon. He was greatly admired as a preacher at Paris, and his funeral orations set him on a level with Bossuet. In 1673 he was received at the French Academy, and in 1685 he was made bishop of Lavaur. Shortly after he was promoted to the see of Nismee; and died in 1710. His entire works were published after his death, in 10

vols. 8vo.

Fleck, v. a. [A.S. fikken; Ger. fiecken, a spot.] To variegate with divers colors; to spot; to dapple; to

parison, or conjugation.

Flec'tor, Flexor, n. (Anat.) The name of several muscles, the office of which is to bend parts into which

muscles, the office of which is to bend parts into which they are inserted.

Fledge, v. a. [A.S. fleogan, to fly; Ger. flügeln, to supply with wings.] To furnish with feathers, or wings; to supply with the leathers for flight.

a. Full-feathered; able to fly; qualified to leave the nest. Fledg fling, n. A young bird recently fledged.

Flee, v. n. (imp. and pp. FLED; ppr. FLEING.) [A. S. fleon; D. vlieden; Icel. flya; Ger. flichen; Lat. flying; Gr. pheugō, to flee. The distinction between flee and fly ought to be carefully observed.] To run away; to run with rapidity, as from danger; to attempt to escape; to hasten from danger or expected evil; to husten away; sometimes preceding from.

sometimes preceding from.

-v. a. To shun; to run from; to escape; to avoid; to keep at a distance from.

weep at a distance from.

Fleece, n. [A.S. flys, fler; Ger. fliess; Lat. vellus.] The coat of wool shorn from a sheep at one time. See Woot.

-v. a. To clip the fleece of a sheep. — To strip of money or property; to pull off; to plunder; as, to fleece the public. — To spread over; to cover, as with wool.

Fleece, (Order of the Golden.) [Fr. toison d'or.] One of the most distinguished among European orders of knighthood. It was founded by Philip III., duke of Burgundy, in 1430; and as by its foundation his successors were declared to be hereditary grand-masters, that title passed, with the Burgundian inheritance, to the house of Austria; thence, after the death of Charles V., to the Spanish line of that house: but when the monarchy of Spain passed to the Bourtons, and the Spanish Netherlands to Austria, the archdukes of Austria claims are made on it at present both by the emperor of Austria and king it at present both by the emperor of Austria and king of Spain. The order is consequently conferred both at Vienna and Madrid, and is, in both courts, the highest in point of rank.— See Fig. 570.

Floce'cer, a. Having no floce.
Floc'cer, n. One who strips, or takes by severe exac-

Flee'ey, a. Woolly; covered with wool; as, fleecy flocks.

Soft; resembling wool; as, the fleecy east.

Soft; resembling wool; as, the fleecy east.

Fleer, v. n. [A.S. fleardian, to trifle; Icel. flyra, to laugh, to grin.] To mock; to jest; to gibe with insolence and contempt; as, "to fleer and scorn at our solemnity." (Shaks.)—To leer; to grin with an air of

lence and contempt; as, solemnity." (Shaks.)—To leer; to grin with an air or civility.

Fleer, v. a. To mock; to flont.

Fleer, v. a. To mock; to flont.

Fleer, n. Mockery expressed either by words or looks.

— A deceitful grin of civility.

Fleer or, n. One who jests insultingly; a mocker.

Fleer'ingly, adv. In a mocking or derisive manner.

Fleet, a celebrated London prison, situated in the Fleet, a tributary of the Thames, now covered over; it existed as early as the 13th cent. Pulled down in 1845. Noted for its Fleet marriage, clandestinely performed by clergymen imprisoned for debt; forbidden by statute, 1764.

Fleet, n. [A. S. flota, fliet, a ship, from fleotan, to float; Du. vlot; Fr. and Ger. flotte; Swed. and It. flotta; Dan. flaade. Root, Sansk. plu, to swim.] This term applies to the different detachments, or squadrons, which form the navy of any country, which are stationed in various parts of the world, for defence, aggression, or intimidation. In the more extended interpretation of the term, it is also applied to any company of vessels united together, and sailing with one object, either mercantile or warlike.

Fleet, a. [Cel. fliotr, quick. swift, nimble.] Swift of pace; nimble; light and quick in motion, or moving with lightness and celerity: moving with velocity, as the wind; as, a fleet horse, a fleet runner.

—Light; superficially fruitful; thin; as, a fleet soil. (Eng.

Fleet, v. n. [Icel. flyta, to hasten. See Flir.] To hasten to flit as a light substance; to be in a transient state.

"This world is all a facting show."—Hors.

(Naut.) To slip down the barrel of a capstan; as, to fleet a cable.
v. a. To skim, or pass rapidly over the surface of.

"In frail wood on Adrian gulf doth Seet."-Faèrie Queene.

-To cause to pass over lightly or hastily; to consume in pleasure or merriment; as, "to fleet the time care-

in pleasure or merriment; as, "to neet the time care-lessly." — Shaks.

-[A. S. fiel, cream.] To skim cream from the surface of. (Naul.) To draw asunder the blocks of; as, to fleet a tackle.— To make to slip down the barrel of a windlass, as a chain.

Fleet'-foot, Fleet'-footed, a. Swift of foot: run ning rapidly.

Fleet'ing, p. a. Passing rapidly; not durable; transient; momentary; transitory; evanescent; as, fleeting

sient; momentary; transferry, transferry, constitutions, filest Ty, adv. Swiftly; nimbly; with swift pace.
Fleet'mess, a. Swiftness; rapidity; velocity; celerity, speed; quickness; nimbleness.
Fleet'wisse, in France and post-village of Lackawanna co. about 150 m. N. E. of Harrisburg.
Fleet'wood, a sea-port and bathing-resort of England, co. Lancaster, at the entrance of Morecambe Bay, 18 m. N.W. of Preston; pop. 4,726.

the two. The great object in heckling is to produce the greatest possible amount of line, and the least possible amount of line, and the least possible amount of two.—See SPINNING, LINEN.

Plax—ecomb, (fdkt/kom), n. A hatchet, or toothed instrument resembling a comb, used in dressing fax.

Plax—dresser, n. One who combe and preparse fax for the spinner.

The process of breaking and first possible amount of two.—See SPINNING, LINEN.

Flee\*tien, n. See Flex.

Fleem'ing, n. An inhabitant or native of Flanders.

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Fleem'ing, n. Mentacky, a N. K. co.; area, about 340 and for the spinner.

Flee'tien, n. See Flex.

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Flex'dresser, n. One who combe and preparse flex.

Flex'dresser, n. The process of breaking and the spinner.

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Iron and limestone. Capital, Flemingsburgh. Pop. (1890) 16,078.

Fleming, in Michigan, a post-office of Livingston co.

Fleming, in New York, a post-town and township of Cayuga co., on Owasco lake, 5 m. 8. W. of Auburn.

Fleming, in Ohio, a village of Licking co., about 10 m. E. by N. of Newark.

—A post-office of Washington county.

Fleming, in Passayleana, the post-office of Unionvilla, Centre county.

Centre county.

Flemings, in Indiana, a vill, of Shelby co., about 5 m.
S. by W. of Shelbyville.

Flemingaburgh, in Kentucky, a post-village, cap.
of Fleming county, about 75 miles E. by N. of Frank-

Flem'ingsville, in New York, a post-village of Tioga co., about 5 m. N. E. of Oswego. Flem'ington, in Florida, a post-office of Marion co. Flemington, in North Carolina, a vill. of Wake co., about 15 m. N.W. of Raleigh.

about 15 m. N.w. of mateign.
Flemington, in New Jersey, a post-village, cap. of
Hunterdon county, about 30 miles N.N.W. of Tren-

Flemington, in Pennsylvania, a post-village of Clin-

ton co.

Plemington, in W. Virginia, a post-village of Taylor co., about 10 m. S.W. of Gratton.

Flemingville, in Isona, a post-office of Linn co.

Flemish, a. Of or belonging to Flanders.

Flemish Bricks, n. pl. Bricks of a yellowish color, used for pavements. They are harder than the ordinary brick, and 72 of them will pave a square yard.

Flemish Language and Literature. The F. is the extremities of the topsall-yards.

Flemish Language and Literature. The F. is the vernacular language of the Flemings, an ancient people who inhabit certain parts of Belgium and Holland, and who number upwards of 2.00,000. It is a form of the Low German, and the Dutch of the present day is a modern offshoot of it. It is more paintal and massl than the language of Holland, which, on the other form of the Low German, and the Dutch of the present day is a modern offshoot of it. It is more paintal and nasal than the language of Holland, which, on the other hand, is more guttural; but the differences are not essential. So little change has taken pluse in this lan-guage, that the earliest monument of its literature, an ordinance of Duke Henry I. of Brabant (1229), is perguage, that the earliest monument of its literature, an ordinance of Duke Henry I. of Brabant (1229), is perfectly intelligible at the present day. Among the more remarkable of the earliest works in this language arc the Rymbybel, or "Bible in Rhyme." and the Spiegel Historical, the "Historical Mirror," of J. Van Maerlant (born in 1235); the "Civic Laws of Antwerp" (1300); the "Chronicle of J. Van Chree," and many others; a translation of Boethius, by Jacob Velt. of Bruges, of the 15th century, and the "Hive of the Catholic Church," by Philip Van Warnix (1549). Many French forms of speech were introduced during the Burgundian reign, and also many Dutch during the sway of the Hapsburge: so that the old Flemish lost much of its purity and terseness. Hooft, Vondel, and Cats are the three men whose names figure most prominently among the writers of the 17th century; but the 18th furnishes scarcely any name of note. Under Napoleon, every effort was made to suppress the use of this language and introduce the French; and it is only since the revolution of 1830 that the Flemish has again come to occupy its former position. Since that time numerous societies and unions have been formed, newspapers and periodicals published, and other means adopted, with a view to diffusing a knowledge and a taste for the cultivation of this language. Among the names of those who have most exerted themselves with this object are: Willems, Blommaert, Van Ryswick, Conscience, Van de Voorde, Deelcourt, Pantzenberg, Van Duyse, Snellaert, De Lace, Dedecker, David, and Bormann. The government was at first opposed to, or at least looked with coldness upon, this movement; but latterly it has come to recognize it, and give it countenance. On the occasion of a linguistic congress at Ghent, in 1841, the members of the

at first opposed to, or at least looked with coldness upon, this movement; but latterly it has come to recognize it, and give it countenance. On the occasion of a linguistic congress at Ghent, in 1841, the members of the government, for the first time, publicly addressed the people in the F. language.

Flem'ish School. (Fuinting.) The school formed in Flanders, originally established by the brothers Van Eyck, at Ghent and Bruges, at the commencement of the 15th century. It seems to have been allied to the old School of Cologne in its method of execution: but the Van Eycks exchanged the tempera vehicle for varnish. Memling, Roger Vander Weyden. Quinten Matsys, Mabuse, and Antonij Moro were the great masters of the second period, after it became the fashion to study in Italy. Snyders, Jordaens, Gaspar de Crayer, and the younger Teniers were also great masters. The works of this school are distinguished by the most perfect display of chiaroscuro, high finishing without dryness, by an admirable union of colors well blended and contrasted, and by a flowing, luxurious pencil. But the Flemish painters, like the Dutch, represented nature as they found her, and not as she should be. Rulens and Vandyck, though men of the greatest genius, were not free from this defect.

Flemeh'-gut, z. The blubber of a whale, when cut up

by layer.

Flench'-gut, n. The blubber of a whale, when cut up

in strips.

Flench'ing, n. The operation of cutting the blubber from a whale.

Digitized by GOOGIC

Flemse, v. a. Same as Flence, q. v.
Flems'borg, n. Same as Flenceino, q. v.
Flems'borg, or Flens'sura, a seaport-town of North
Germany, on the E. coast of Schleswig-Holstein, at the
bottom of a deep flord of the Baltic, 19 m. N.N.W. of
Schleswig, with a good harbor. Manuf. Sugar, spirits,
cloth, paper, tobacco, and chiefly tiles, which are largely
exported; ship-building is actively engaged in. Pop.
21.650

21,050.

Flems burg, in Illinois, a village of Effingham co., abt. 100 m. 8.E. of Springfield.

Flers, a town of France, dep. Orne, 35 m. W.N. W. of Alençon; pop. 6,000.

Flesh, a. [A. S. fizzc; Ger. fizisch.] The muscular part of an animal, or the softer solids, as distinguished from the bones and the fluids. As a general appellation it may be taken to include the blood-vessels, nerves, cellular tissue, &c. — See Muscut, Tissue, &c. — Animal food, in distinction from vegetable; the body of brasts and birds used as food.—The body, as distinguished from the soul.—Animal nature.—Animals of all kinds.

—Men in general; mankind.—Human nature; carnality: corporeal appetities; a state of unrenewed nature; cor-

corporeal appetites; a state of unrenewed nature; cor-rupt nature.—Kindred; stock; family.—The soft, pulpy substance of a fruit; that part of a root, fruit, &c., which

substance of a fruit; that part of a root, fruit, &c., which is fit to be eaten.

(Chem.) The F. of animals consists of fibrine in a coagulated form, permeated by at least three times its weight of water and fluid, consisting partly of blood and partly of substances secreted from it. The soluble matters consist chiefly of albumen, the soluble salts of the blood, two animal principles called kreatine and inosite, and phosphoric, lactic, butyric, acetic, and formic acids. The salts consist of the phosphate of potash, magnesia, and lime, and a small quantity of chloride of sodium. Pleash, v. a. To initiate;—from the sportsman's practice of feeding his hawks and dogs with the first game that they take, or training them to pursuit by giving them the flesh of animals.

"Heast thop fasht thy maiden sword?"—Skake.

" Heet then feeld thy maiden sword?"-Shake -To harden; to establish in any practice, as dogs by often feeding on anything.

"A woman feeled in malice."—Sidney.

-To glut ; to satiate.

He feekes his will in the spoil of her humour."-Shake. Flesh'-broth, n. Broth made by dececting fiesh. Flesh'-brush, n. A brush for exciting action in the skin by friction.

Flesh'-brush, n. A brush for exciting action in the skin by friction.

Flesh'-clogged, a. Encumbered with fiesh.
Flesh'-colored, a. Having the color of fiesh.
Flesh'-colored, a. Having the color of fiesh.
Flesh'-diet, n. Food consisting of fiesh.
Flesh'-diet, n. Food consisting of fiesh.
Flesh'-giv, n. Food consisting of fiesh.

Used; accustomed; inured; hardened.
Flesh'-fly, n. See Muso.
Flesh'-fly, n. See Muso.
Flesh'-fly, n. See Muso.
Flesh'-flows, n. A fork for trying meat and taking it from the caldron.
Flesh'-hook, n. A hook to draw meat from the boiler.
Flesh'-hook, n. A hook to draw meat from the boiler.
Flesh'-hook, n. A hook to draw meat from the boiler.
Flesh'-hook, n. A houlty of being fieshy; plumpness; fulness; grossness; corpulence.
Flesh'-limess, n. The quality of being fieshly; the carnal passions and appetites.
Flesh'-limess, n. The quality of being fieshly; the carnal passions and appetites.
Flesh'-ly, - Corpores!; carnal; worldly; lassivious; voluptuous.—Consisting of fiesh; animal; not vegetable.— Human; not celestial; not spiritual or divine.
Flesh'-meast, n. Animal food.

Flesh'-ment, n. Animal food.
Flesh'ment, n. The act of initiation; the excitemen attendant upon initiation.

ries meets, x. In act of intuation; the excitement attendant upon initiation.

Flesh'-monger, n. One who deals in flesh; a pimp.

Flesh'-pot, n. A ressel in which flesh is cooked.

Flesh'y, d. Plump; fat; corpulent; gross.

—Pulpous and succulent, as fruit.

Fletch'er, n. A maker of bows and arrows.

Fletch'er, John, an English dramatic poet, R. 1576, who wrote several plays in conjunction with Beaumont. In this dramatic partnership, it is said that Fletcher found fancy and Beaumont judgment. He J. 1625. The principal piece of his own writing is a dramatic pastoral entitled The Fuilhful Shepherdess; and there is no doubt that it suggested the idea of Milton's Comus. Edward Phillips, the nephew of Milton, classes Fletcher with Shakspeare and Ben Jonson, as one of the "happy triumvirate" of the age.

Fletch'er, in Ohio, a post-village of Miami co., abt. 80 m. N. of Cincinnati; pop. abt. 500.

Fletch'er, in Vermoni, a post-township of Franklin co.; pop. abt. 960.

Fletch'eresus, a. [Lat. fetus, a weeping, and ferre, to

Fletch er, in Vermont, a post-township of Franklin co.; pop. abt. 960.

Fletif erous. a. [Lat. fletus, a weeping, and ferre, to bear.] Causing weeping or lamentation.

Flet. politic. [Flet. pp. of flet. q. v.] Skimmed milk. Flews-de-lis., (flir'de-lee.) n. [Fr., flower of the lily.] (Hr.) The flower of the water-lily or yellow flag, which constituted the principal feature in the armorial bearings of the monarchs of France prior to the execution of Louis XVI., and under the Restoration. It was introduced into the arms of France about the year 1144, being first borne by Louis VII. This monarch, who had exercised regal power during the lifetime of his father, had probably adopted and worn it even prior to this date as his badge or cognimance, as the Plantagenets distinguished themselves by bearing a sprig of broom; and from this circumstance its present name may be derived.

Fleurus, (flur'oos,) a town of Belgium, prov. Hainault, near the Sambre, 7 m. N.E. of Charleroi; pop. 2,397. This place is noted for four important battles having This place is noted for four important battles having taken place in its vicinity. The first took place on Aug. 30, 1622, between the Spaniards under Gonsalvo of Cordova, the general of the Cattolic League, and the troops of the Protestant Union commanded by the Bastard of Mansfeld and the dukes of Brunswick and Saxeweimar. Both sides claimed the advantage. The second was fought July 1, 1690, Montmorency, duke of Luxembourg, defeating the Prince of Waldeck, one of the most able of the generals of the Augsburg League. The third was that in which General Jourdain defeated the Imerialists under the Prince of Coburg. June 26, 1794. The fourth, more commonly known as the battle of Ligny, took place on the 10th of June, 1815. On that day

FLEX

Ligny, took place on the leth of June, 1815. On that day Bilcher was defeated by Napoleon. Fleur'y, Andaé, flercure de, a cardinal and prime minister of France, under Louis XV., was born at Lodève, in Languedoc. in 1653. Coming to court, he won general favor by his pleusing person and fine understanding; became bishop of Frejus; and, through the interest of Madame Maintenon, was appointed instructor to Louis XV. In 1726 he was made cardinal, placed at the head of the ministry, and from his 73d to his 90th year he administered the affairs of his country with great success. Died 1743.

year he administered the affairs of his country with great success. Died 1743.

Fleury, CLAUDE, a French historian, author of an Ecclesiastical History in 20 vols., Manners of the Israelites, &c.; B. 1840; D. 1723.

Flew, imp. of FLY, q. v.

—n. The large chaps of a deep-mouthed hound.

Flex, v. a. [Lat. fizzus, from fizziere, to turn.] To bend.

Flex an impous, a. [Lat. fizzier, to turn, and animus, the mind.] Of a client dispersion.

the mind.] Of a plant disposition.

lexibility, n. [Fr., from Lat. flexibilitas; from flectere, to turn.] Pliancy; pliability; readiness to bend;

Lere, to turn.] Pliancy; piasolity; readiness to benu; as, facribility of fibres.

(Phys.) The property which all bedies possess to a greater or less degree, which is evinced in their disposition to yield or change their form in a direction at right angles to their length, through their own weight to be manned of any pressure or strain applied to them. or by means of any pressure or strain applied to them. Pieces of the same material differ from each other in the degree of flexibility they exhibit, in proportion to their length and thickness. Thus it is evident that a cylin-drical bar of iron an inch in diameter and twenty feet length and thickness. Thus it is evident that a cylindrical bar of iron an inch in diameter and twenty feet in length will exhibit a far greater degree of flexibility than another which is only half the length, and has a diameter of two inches. This may be seen by resting the extremities of each on supports of equal height, when the long would become curved in form through its own weight, its centre being considerable below a chord drawn from one end of it to the other; while the thicker bar would be scarcely bent out of the straight line. Materials also exhibit a greater degree of flexibility in one condition than in another; metals, for instance, yielding far more readily to pressure when heated than when cold. A wought-iron beam which would sustain a great weight without perceptive deflection when cold, would bend considerably under the same weight when red-hot. The great flexibility of ropes of hemp and metal renders it quite impossible to stretch them horizontally in a straight line, as may be seen in the case of a rope stretched for the performance stretch them horizontally in a straight line, as may be seen in the case of a rope stretched for the performance of a tight-rope dancer. There is no material that will not exhibit flexibility in some degree, because there is no substance in nature that is perfectly rigid and inflexible; but the degree of flexibility possessed by any material is denoted by the extent to which it will bend, or by the weight which it will support without breaking. This property must not be confounded with that of elasticity: elastic bodies will return to their former shape when they have been bent or altered by pressure in any way; but bodies which possess flexibility without elasticity do not return to their original form in all cases. A straight bar of iron, though bent by its own out elasticity us not return to their original toril in an acases. A straight bar of iron, though bent by its own weight only, will not exactly resume its original shape, although a rope will do so. The consideration of the deflection or flexibility of beams of wood and iron bars and girders, as well as of ropes and chains, and other materials, is an important point in the construction of building betters.

buildings, bridges, and engineering works of various kinds.— See MATERIALS, STRENGTH OF.

Flex 'Ible, (flekri-bl.), a. [Fr., from Lat. flexibilis.] That may be bent; readily bending without breaking; pliant: pliable; supple; not stiff or rigid; yielding to pressure; as, a flexible stalk, flexible steel.— Capable of yielding to entreating arguments or other moral force: time. to entreaties, arguments, or other moral force; trac table; easily managed or turned; not firm; accommo dating; inconstant; wavering; ductile.

"Women are soft, mild, pitiful, and flexible."-Shake.

That may be accommodated or suited to various form and purposes.

"This was a principle more flexible to their purpose."-Roge

Flex'ibleness, n. Essiness or readiness to be bent;

Flex'iblemess, n. Easiness or readiness to be bent; pliability.
Flex'ibly, adv. In a pliant manner.
Flexicos'tate, a. [Lat. fazus, bent, and costa, a rib.]
Having the ribe bent.
Flex'ille, a. [Lat. fazulis, from fazus, pp. of factore, to bend.] That may be bent; easily bent; pliant; pliable; as, fazule osiers.
Flex'ion, n. [Lat. fazio.] A bend; a part bent; a fold.
Flex'on, n. [Lat. fazio.] The name of certain muscles whose office it is to bend the parts into which they are inserted. The antagonistic muscles are termed extensors.

Flex'uous, Flex'uose, a. [Lat. fezuosus, from fezus, a bend or fold.] (Bot.) Applied to bodies which

have a zigzag or wavy direction, i. e., gently bending alternately in opposite directions, as in the case of some stems, the ribe of leaves, &c.

Flex'ure, n. [Lat. flexura, from flexus, pp. of flectere, to bend.] The act of bending. — The joint; the part bent. — The form into which a thing is bent. — An obsequious

— The form into which a thing is bent. — An obsequious or servite cringe.

(Math.) The flexure of a curre is its bend toward or from a straight line.

Fif flustier, n. [Fr.] See Filibuster.

File flac, n. A repeated noise made by blows.

Flick, n. Bame as Filter, q. r.

Flick er, v. n. [A. S. flicerian, to move the wings; but, flikeren, to twinkle.] To flap the wings without flying. — To waver; to fluctuate, or twinkle, as an unsteady flame. flying. — To steady flame.

lick'ering, p. fluttering motion. p. a. Wavering; fluctuating; having a

nuttering motion.

—n. A fluttering; short and irregular movements.

Flick'eringly, adv. In an unsteady manner.

Flicks'ville, in Pennsylvania, a post-village of North-ampton co., abt. 120 m. N.E. of Harrisburg.

ampton co., abt. 120 m. N.E. of Harrisburg.

Fli'er, n. One who flees or flies; a runaway.
(Much.) The fly of a machine.— See Flr.

-n. pl. Stairs that do not wind; (sometimes written flyers.)

Flight, (fitt) n. [A.S. fliht, from fleegan, to flee, to fly.
See Flr.] Act of fleeling, or of running away, to escape
danger, peril, or anticipated evil; hasty exit or departure.

The maid pursued her flight; her flight increased his fire." Pope

"The maid pursued her flight; her flight increased his fire." Pops. Act of flying, or of passing through the air by means of wings; manner of flying; removal from place to place by flying; volitation; as, a pigeon's flight.

A flock of birds, or a number of beings, passing through the air in company; a number of things flying together; a volley, as of arrows; a periodical flying of birds in flocks; the birds produced in the same season; as, a flight of swallows.

" Flights of angels wing thee to thy rest."

A mounting; a soaring; lofty elevation and excursion; as, flight of fancy, a flight of ambition; — in a bad sense, an extravagant sally; excursion; escapade; as, a flight of folly.

"Above the vulgar flight of common souls."

-A series of steps or stairs from one floor to another.
-The husk or envelope of oats.
To put to flight, to rout, compel to run away, or make

a hasty retreat.

Flighted, (fit'ed.) a. Taking wing or flight; flying.

Flight'ily, adv. In a flighty or airy manner.

Flight'iness, n. State or quality of being flighty or volatile; levity; glddiness; volatility; as, flightiness of manner

Flight'-shot, ". The distance traversed by an arrow

"The May-pole ... half a flight-abot from the king's cak."—Scott.

Flighty, (fitt'i,) a. Fleeting; swift; momentary; transient; as, a flighty purpose. —Wild; full of flights; indulging the sallies of imagination; unsettled; volatile; giddy; somewhat delirious, or disordered in mind; as, "a flighty enthusiast." — Harford.

Flim'sily, adv. In a flimsy or shallow manner.

Flim'siness, n. State or quality of being flimsy; thin; weak texture of body; weakness; lack of substance or solidity; as, the flimsiness of bank-paper.

Flimsy, (fim'si, a. [From the root of Film, q. v.]

Flimy; thin; slight; weak; feeble; without solid substance; without strength, spirit, or force; superficial; shallow; as, a fitmsy protext, filmsy argument, a fismsy shallow; as, a fitmsy protext, filmsy argument, a fismsy "The May-pole . . . half a flight-shot from the king's oak."-Scott.

shallow; as, a flimsy protext, a flimsy argument, a flimsy

excuse.

"Proud of a vast extent of filmsy lines." — Pope

"Proud of a vast extent of finery lines." — Pape.

—n. Thin paper; cap-paper; transfer-paper. —A cant term, applied in England to a bank-note.

Flimeh, (finsh.) v. n. [O. Ger. wenkjan, wankôn, to waver, to shrink, allied to Lat. vacillo, to sway to and fro; Sansk. vakh, to move one's self.] To shrink; to withdraw from; to fall of proceeding, or of performing anything; to wince; as, to bear pain without fineling.

"Oh, ingratitude, that John Bull should sinch at last, and pretend that he can disburse no more money."—Arbuthnot.

Flinch'er, n. One who flinches, falls, or shrinks from, Flinch'ingly, adv. In a flinching or wincing manner. Flin'dermouse, n. A bat. Flin'ders, n.pl. [Scot. flenders.] Splinters; chips;

fragments.

Filing, v. a. (imp. and pp. Flung, pp. Flinging.) [Causative of fly; A. S. fligan, to cause to fly, causative of fleogan, to fly or flee.] To cause to fly from the hand; to hurl; to dart; to cast with violence from; as, to fling

"'Tis fate that fings the dice; and, as she fings,
Of kings makes peasants, and of peasants kings." — Dryden. To send forth; to emit; to scatter.

"The sun begins to fling his flaring beams." - Mills

"The sun begins to sting his flaring beams." — Milton.

To throw to the ground; to prostrate; hence, by implication, to frustrate; to baffle; to overthrow; to defeat; as, the horse stung him, to sting an adversary.

To fling away to discard; to reject; to dismiss; as, "fing away ambition." (Shaks.) — To fling down, to hurl or throw to the ground; to demolish; to ruin. — To sling off, to baffle in the chase; to defeat of prey; as, "men too well acquainted with the chase to be flung off by any false steps or doubles." (Addison.) — To rid one's self of; to discard; to give the cold shoulder to; as, to sling off a mistress. — To sling open, to throw open, or wide open; to open with haste or violence; as, to sling open a gate or door. — To sling out, to utter harshy or abruptly; as, to sling out a sarcasm, she slung cast

abusive words. - To fling up, to abandon; to cease fol-! lowing; to relinquish; as, he, ung up his place in disgust.

Fling; v. n. To flounce; to wince; to throw; to break
into violent and irregular motions.

The angry beast began to kick, and fing, and wince." Hudibras -To cast in the teeth; to upbraid; to utter harsh language ; to sneer.
"Thus back I fling the lie." -- Davies

To rush away angrily: to throw one's self in a hasty, passionate, or violent manner; — omitting self; as, she flung out of the room in a pet.

To fling out, to become unruly or outrageous; as, "Duncan s horses ... flung out." — Shaks.

Fling. ". A throw; a jerk; a cast from the hand; a

-A gibe; a sneer; a sarcasm; a severe or contemptuous

A kind of dance

—A kind of dance.

Fling'er, ... One who casts or flings; a giber.

Flink'ing-comb, n. [0. Ger flinken, to make ready.]

A dressing-table comb for the hair.

Flint, n. [A.S. flint; Ger. flintenstein.] (Min.) A variety of quartz, allied to Chalcedong. q. v., but more opaque and of dull colors, usually gray, smoky brown, and brownish-back. It breaks with sharp cutting edges and a concholdal surface. P. is nearly pure silications of the control of the con edges and a conchoidal surface. F. is nearly pure silica-lt often occurs in layers of irregular notules and some-times in flat tabular bands. These nodules consist largely of the remains of infusoria, sponges, and other marine productions. The coloring-matter of the common F is mostly carbonaceous matter, and it usually contains also about one per cent. of slumina and peroxide of iron, with one or two of water. After being calcined and ground, F is often used in the manufacture of glass, seathenware and purcelain.

earthenware, and porcelain.

Flint-glass, n. See Glass.

Flint-heart, Flint-hearted, a. Having a hard

heart; obdurate; cruel.

Flint Im plements. (Ged.) The name given to stony materials imperfectly sculptured, supposed to be the relics of the primitive inhabitants of Europe, which the relies of the primitive inhabitants of Europe, which have been discovered from time to time, by being accidentally turned up whilst ploughing in fields, or by the zealous search of some indefatigable antiquaries. Those which have already been discovered do not differ in the slightest respect from the rade weapons constructed of flint which are used even in the present day by the savages inhabiting portions of Asia, America, Africa, and the islands in the Indian Archipelago and the South the weapons are mostly discovered, and there is an unlimited variety in the shape and construction of even these. The precise nature of these implements, the fact that they must have been of human manufacture, and the clear proof of their position in situ with bones and other remains of animals contemporaneous with the savages who male the implements, are the points of chief increst. They are principally composed of flint, but include granite, jude, serpentine, jusper, basait, and other stones. Of these implements there are two well marked types, some being shaped by chipping alone, others finterest. They are principally composed of flint, but include granite, jade, serpentine, jasper, basalt, and other stones. Of these implements there are two well marked types, some being shaped by chipping alone, others flinished by grinding and polishing. The first type is lassigned to the earlier part of the stone age, and classified as palsolithic implements: the second to the later part, and classed as neolithic implements. The palso-lithic implements there chases, the best-finalised being an oval, sharp-edged form, the second long and pointed, the third tongue-shaped. The neolithic are more varied in form, being often carefully shaped and fluely finished, some far surpassing anything produced by modern savages or barbarians. So large a number of these interesting objects have been found in certain spots as to lead to the supposition that they have been intentionally buried, or that a manufactory of them existed there. The chief localities for these objects, at first, were two or three gravel-beds on the banks of the Somme, near Amiens and Abbeville, in France, Many caverns and some gravel-beds in the southern and western parts of England have since yielded them. They have been found also in Belgium, Germany, and Italy, always with the same associations. The evidence of their being of the age of the gravel-deposit is varied and fragmentary, but on the whole satisfactory. In the first place, the gravel is undisturbed, and it is clear that all parts of the deposit must have been placed where we find them at some one time, and have since been covered up by a natural accumulation of subsoil and soil. The filnts are found not at the top, nor always near the top, but occupying a definite place in the mass either with or below the bones of extinct qualrupeds, such as elephants and rhinoceroses. The naturally broken and rolled filnts are weathered generally in a particular way, and these sculptured finits are weathered in the same way and to the same extent. The gravel occupies a position so much above any water-leve thus scaled up, deposits of more recent date have been heaped upon them. In some cases the implements have been found under the bones of animals that have either been found under the bones of animals that have either died on the apot or been dragged into the care while undecomposed. Among such animals are bears, hysenas, rhinoceroses, elephants, and hippopotamuses, of extinct species. Horns of reindeer, on which are etched recognizable figures of the reindeer, have been found with implements and human bones in the south of France. As a general result of this curious inquiry, it would seem that there must have been human inhabitants—savages

like those of Australia, or half-civilized men like the Flip'dog, s. The iron used for heating flip. Indians of North America—for a period so enormously Flip'-flap, a. Noting the repeated noise or stroke of more distant than the most ancient historic event, that the invariant of the invariant o

more distant than the most ancient historic event, that the imagination shrinks from the consideration of the question.

Himt, or Flintshers, a maritime co. of England, in N. of Flip'shap, n. The repeated noise or stroke of something flat and loose.

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Flip'shap, n. The repeated noise or stroke of something flat and loose. question.
Films, or Flintshire, a maritime co. of England, in N. of
Wales, consisting of two separate portions, the largest
and most important of which is bounded on the N. by
the Irish Sea, on the E. by the sestuary of the Dee, and
the river Dee itself, and on the S. and W. by Denbighshire; the other and smaller portion lies along the S.
bank of the Dee between the cos. of Cheeter and Salopter 2000 or We bigs the appellent of the Welds Counter. Arra, 289 sq. m., being the smallest of the Welsh counties. Surface, diversified, a range of high hills separating it on the W. from Denbighshire. Soil. Highly fertile and productive, consisting in a small result. tile and productive, consisting in a great part, of the celebrated Vale of Clwyd. Rivers. Dec, Clwyd, and Alyn, Prod. Wheat, barley, rye, and excellent dairy produce. Min. This county possesses the richest lead-mines in the Arod. Wheat, barley, rye, and excellent carry produce. Min. This county possesses the richest lead-mines in the kingdom; copper, coal, limestone, &c., are also largely mined. Manuf. Cottons; the larger portion of the industry of this co., after agriculture, is however devoted to lead and copper smelting. Chief Towns. Flint (the



Fig. 1032.—FLINT CASTLE.

cap.), Holywell, Mold, and Overton. Pop. (1891) 77,189.

FLIKT, a borough and seaport, and cap. of above co., on the estuary of the Dec. 11 m. N.W. of Chester, and 185 N.W. of London. It has the remains of a noble castle (Fig. 1032). built by Edward I., and memorable in history as the scene of the imprisonment of Richard II., by Bolingbroke, afterward Henry IV., (Shaka. Richard II., aby Bolingbroke, 1891). A post-office of Steuben co.

Ffiint, in Meiologa, a post-office of Mahaska co.

Ffiint, in Miologa, a thriving city, cap. of Genesee co., 34 miles S.E. of Saginaw; has extensive manufactories and a large trade in lumber, implementa, and cigaru. Pop. (1897) about 12,000.

Ffiint, in New York, a post-office of Franklin co.

Ffiint, in Okio, a post-office of Franklin co.

Ffiint Creek, in Illiands, enters the Mississippi river from Des Molnes co.

— A village of Lake co., about 35 miles N.W. of Chicago. cap.), Holywell, Mold, and Overton. Pop. (1891) 77,189

from Des Moines co.

A village of Lake co., about 35 miles N.W. of Chicago.

A village of Lake co., about 35 miles N.W. of Chicago.

Flint Creek, in Indiana, enters the Wabash river from Fountain co.

Flint FHIL, in Wisserri, a post-village of St. Charles co., about 50 miles W.N.W. of St. Louis.

Flint Hill, in Virginia, a post-village of Rappahannock co., about 35 miles S. of Winchester.

Flint'iness, s. The quality of being hard, obdurate, or cruel.

or cruel.

Flint'kalk, n. [Ger.] (Min.) Same as DOLOMITE.

Flint'-lock, n. The lock of a musket, having a steel
fixed in the hammer, for striking on the steel-pan.

Flint's Mill, in Ohio, a post-office of Washington co.

Flint River, in Alabama, enters the Tennessee river

Flint River, in Automa, chiesa and from Morgan co.
Flint River, in Georgia, rises in Clayton co., and flowing in a general S. course, enters the Chattahoochee river from Decatur co. Length about 300 miles. Indian

river from Decatur co. Length about 300 miles. Indian name, Throsasteeska.

Flint River, in Iosca, a township of Morris co.

Flint River, in Michigan, rises in Lapeer co., and flowing in a tortucus S.W., then N.W. course through Genesee co., joins the Shiawassee river in Saginaw co., to form the Saginaw river.

Flint Spring, in Keniuchy, a post-office of Ohio co.

Flint'-stone, in Maryland, a post-village of Alleghany co., about 12 miles E. of Cumberland.

Flint'ville, in Tensesse, a post-village of Lincoln co., 11 miles S.E. of Fayetteville.

Flint'y, a. Made of, or resembling flint: excessively hard; as, a flinty rock, a flinty heart.— Hard of heart: cruel: savage; inexorable.— Full of flints; as, flinty ground. round

ground.

Flint'y-hearted, a. Having a hard, unfeeling heart.

Flint'y State, n. (Min.) An impure quartz, having a slaty structure. It contains about 75 per cent. of silica, with some lime, magnesia, oxide of iron, &c. Its fracture is splintery rather than conchoidal, and it is more or less translucent. It passes gradually into clay slate, with which it is often found in intimate geological connection. Flip, n. A drink made of spirits, beer, and sugar, and heated by a hot iron; as, egg\_fip. (Called in the U. S.

flippant tongue.

Pert; petulant; waggish; voluble and thoughtless; as,

-Pert; petulant; waggish; voluble and thoughtless; as, "away with fippant epilogues." — Thomson.

Flip pantly, adv. In a flippant manner.

Flip part mess, n. The quality of being flippant.

Flip per, n. The paddle of a sea-turtle; the arm of a seal.

—The brand fin of a fish.

—The hand; as, "Messmate. give us your flipper." — Marryat. (Colleq.)

Flip pim, in Kentscky, a post-office of Lauderdale co.

Flippim, in Tennesse, a post-office of Lauderdale co.

Flift, v.a. (Probably formed from fleer. Flirt unites the meanings of fleer and its root, leer. See Flexe and Lexe.) To throw with a jerk, or sudden effort or exertion; to fing guideling; as, to firt a glove. tion; to fling suddenly; as, to fairt a glove.

"The scavenger

Fierts from his cart the mud in Walpole's face."—Swift.

To toes or throw about; to wave or move quickly and playfully; as, "permit me to first your fan." — Earl of Dorset.

To jeer at ; to deride ; to banter ; to treat contemptuously.

"I am ashmed; I am scorned; I to treat cortemptuously."
"I am ashmed; I am scorned; I am firted."— Earen and F.
—o. n. To throw out bantering or jeering words; to gibe;
to deride; to utter disdainful language.
—To run about perpetually; to act with giddiness, or from
a desire to attract observation and attention; to act with
levity; to play at coquetry or courtship; to coquet; to
be fluttering, unsteady, and incoustant; as, that girl
firits with lasif the garrison.

—n. A quick throw or cas; a sudden jerk; a darting motion.

"One first of the spread ha, and all the vision files." — Pope.

A young girl who acts with giddiness, or plays at courtship; a woman who flirts; a coquette; a forward, pert, and empty-hearted girl; as, a ball-room flirt, "a young flirt about town." — Addison.

First about wen. — Adatos.

Firsta-tiom, s. A firting; a quick, jerky motion.

—Coquetry; playing at courtship; interchange of tender looks and soft nothings; serio-comic love-making; as, the heroine of a hundred firtations.

"I assisted at the birth of that most significant word firstetion."

Lord Chesterfield.

Flirt'ing, p. a. Throwing; jerking; tossing; darting

Plift'img, p. a. Throwing; jerking; tossing; darting about.

—Giddy; coquettish.

Flist'imgly, adv. In a firting manner.

Flisk, a. a small river in Iroland, flowing into the Lake of Killarney.

Flisk, v. a. large tooth-comb.

Flit, v. n. [Dan. flytte, to move, to remove; flyining, a moving, a removal; Icel. flyt, to carry; Swed. & Goth. flyttia, to remove.] To fly away with a rapid flight; to dart through the air with celerity; to move along with velocity; as, a fitting cloud.

"A shadow title before me."—Transpore.

" A shadow fits before me." — Tes To flutter; to rove on the wing.

"Changed to a bird, and sent to six in air." — Pops.
To pass or move with haste from place to place, as a light

stance; to remove; to migrate. "It became a received opinion that the souls, departing this life, did fit out of one body luto another." — Hooker.

nn, an au out of one noop not answer. — needer.

—To remove from one habitation or place of residence to another. — To be unstable; to be easily or often moved, agitated, or perturbed; as, "filting air." — Dryden.

Fitch, n. [A. S. fice; Dan Aekke; Ger. fack, a cleft, a slice.] The side of a hog, salted and cured; as, a filch of heavy.

a slice.] The side of a nog, saited and cured; as, a fatta of bacon.

Filte, v. n. [A. S. filtan, to quarrel.] To wrangle; to quarrel: to make a row or rumpus. (Prov. Eng.)

Filt'ter, n. [Ger. filtern, to glitter.] A tag; a rag; a latter; a frugment.

Filt'ter, engument.

Filt'timg, p. a. Moving by starts; fluttering.

—n. A flying with celerity; a fluttering.

Filt'timgly, adv. In a flitting manner.

Filx, n. Same as Fulx, q.v.

Filx-weed, n. (Bot.) See Sisymbarium.

Float, (flot.) n. [A. S. flota. See the verb.] That which swims or is borne on water; a floating mass: a raft; anything that floats on the surface of a fluid; as, "a float of weeds and rushes." (L'Extrange.)—A cork or quill connecting with an angling-line, and resting on the surface of the water, in order to afford indication of the bite of a flab.

face of the water, in order to allord indication of the bite of a fish.

(Mach.) A flat piece of stone or other material at-tached to a valve in the feed-pipe of the boiler of a steam-engine, and supported upon the surface of the water by a counter-weight; used either for showing the height of the water, or regulating the supply from the

cistern.

The float-board of the wheel of a steamboat. See Pap-DLE-BOARD.

DLF-BOARD.

A floor, or level space of earth, 18 feet square and 1 deep. (Mortimer.) — A sort of smoothing-file. — An instrument for plastering, used by masons. — A low cart used for the carriage of heavy loads. (Eng.) — n. [A. S. foitan, fotian; L. Ger. foten, vioten; O. Ger. fuiran; Lat. fuito, to float, freq. of fluo, to flow; O. Icel. flui, to flow. Root Sanak. plu. to swim.] To be borne or sustained on the surface of a fluid; to be buoyed up; to swim; not to s'nk; not to be aground.

"Theswans on still its. Mary's Labs

"Theswans on still St. Mary's Lake
"Float double, swen and shadow!" Worden

To move or be conveyed on water; to be buoyed up and moved or conveyed in a fluid, as in air; to move with a light, irregular course.

"There seems a floating whisper on the hills." — Byron.

"There seems a floating whisper on the hills." — Byron.

ens a floating whisper on the hills." — Byro Ploating debt, capital, &c., that part of the debt of a ate which is not stable, and is to be paid at demand or

at whort term.

least, v. a. To cause to float or pass by something; to cause to be conveyed on water; as, the vessel floated off with the tide.

To flood; to inundate; to submerge; to overflow. Venice looks, at a distance, like a great town half floated by ago." — Addison.

delage."—Addion.

(Plastering.) To damp and level the surface of a wall, &c., with a fiont frequently wetted.

Floated work, plastering amouthed and levelled by means of a float.

Float'able, a. That may be floated; as, floatable wood.

Float'able, (A. That may be floated; as, floatable wood.

Float'-beard, a. A board of an undershot waterwheel, on which the water strikes, giving motion to the wheel.

(Naul.) See PADDLE-BOARD.

Float ease, n. A contrivance for elevating bodies by the upward pressure of water under an air-tight metal-lic case, moving in a well or shaft. Float er, n. One who floats or swims on the surface

Pleat'ing, p. a. Swimming on the surface of water or other fluid. Circulating: passing; not fixed; as, the floating population, a floating capital. Float'ing, a. The act of swimming on the surface of

water.

—The watering or overflowing of meadow-lands.

Float'img-bat'ierry, n. (Mar.) A term applied to a hulk which has been cut down and rendered as strong and shot-proof as possible, and in which are placed heavy cannon and mortars, for the purpose of defending or attacking harbors and other maritime strongholds. This species of war-vessel was first used at the siege of Gibraltar, in the years 1779-1783; and it was again brought into use during the Crimean war. On account of their clumsiness, and the difficulty of navigating them, floating-latteries are, however, not much in request at the present day.

Float'ing-bridge, n. A bridge formed of beams of timber and planks lying on the surface of a river or piece of water.

A flat-bottomed ferry-boot running on chains laid acros

—A flat-bottomed ferry-boat running on chains laid across
the bottom of a water-course.

(Mil.) A kind of double bridge, the upper one projecting beyond the lower one, and capable of being moved
forward by pulleys; — used for carrying troops over narrow mosts in attacking the outworks of a fort.

Fleating Islands, Gardens, and Houses.
Gardens and islands, formed of patches of wood and
weeds, covered with grass, flowers, and other vegetable
productions, supported on the surface of the water. In
this country on the Mississippi, and in India on the
Ganges, such islands, detached from the banks by the
force of the currents, are often seen carried down to
the sea, with tall trees standing erect upon them. In franges, sitch institute uterated from the banks by the force of the currents, are often seen carried down to the sea, with tail trees standing erect upon them. In ancient mythology, the island of Delos, one of the Cyclades, was supposed to be endowed with floating powers, and to be capable of sinking below the surface of the deep, and rising again at various intervals, in some new spot. In northern India, and on the borders of Thibet and Persia, floating gardens are often erected by the natives, for the purpose of raising melons, cumbers, and other similar vegetables and plants, which require a very aqueous soil for their cultivation. These gardens, however, are of a very fragile nature, and rarely exceed a foot in depth of soil, their prime structure being composed of wicker-work, interlaced with reeds and waddings, and covered with matting, over which the earth is placed. Floating houses are built by the finhabitants of Banghot, the capital of Slam, from motives of comfort and safety. These houses form whole streets, being anchored in rows, and are capable of being moved from one position to another at pleasure. From the from one position to another at pleasure. From the depth of water, large vessels of from 200 and 300 tons burden can sail up this picturesque town, and pass alonguide the houses of the inhal-ituats. These floating anogenee are made of bamboo-stems, wicker-work, and palusa, with a veranda in front; and they are built on large rafts. Sir John Bowring gives a capital account of them in his sketch of Siam.

Float'ing-light, n. (Naut.) A hollow vessel of tinned-iron plate made in the form of a bout, with a reflector and lanear made in the form of a bout, with a reflector

and lantern, used for rescuing persons who have fallen overboard in the night.—Also a light attached to a boat or the hull of a vessel moored over a rock or a shoal, to

serve the purpose of a warning to mariners.

Float/ing-pier, n. A pier that rises and falls with

t'sam, n. Same as FLOTAM, q. v

Fleat'-stome, n. (Min.) A variety of quarts, consisting of fibres or filaments aggregated in a spongy form, and so light as to float on water until the air in its numerous cavities is displaced; found in the chalk-formations of Menilmontant, near Paris.

Ploaty, a. Swimming on the surface; buoyant.
Plo\*bery, a town of Belgium, prov. Hainault, 20 m.
N. B. of Tournal. Manay. Linena, &c. Ppp. 5,814.
Florella'tion, Floreita'tion, n. (Med.) Same as

Floresse', a. [Lat. flocus, a tuft.] (Bot.) Bearing or closed with locks of soft hair or wool.

Floresse', a. [...] In a tufted manner.
Floresse', adv. In a tufted manner.
Floresse', a. (Zoll.) Applied to the first joint of the hind legs, when distinguished by a curling lock of hair.

(Bot.) A woelly filament often found mixed with the sporules of certain fungi.

sporules of certain funci.

Flock, n. [cel. flokk; a close lock of wool; Lat. floccus; akin to Gr. plock, a turning or twining.] A lock of wool.

A kind of woolly paper.

Flock, n. [a. 8. floce, a company; Dan. flok; Icel. flockr; akin to Ur. ochlos, a crowd.] A collection of birds, sheep, gouts, or of small four-footed animals. It is frequently limited to sheep, in order to distinguish them from a drove of larger animals.

A Christian congregation in relation to their spiritual pustor; as, each Sunday he expatiates to his flock.

Flock, v. n. To guther in crowds; to collect or assemble in multitudes; to crowd together.

To move in crowds.

To move in crowds

ock'-bed, n. A bed filled with locks of wool. Flock'-paper, n. A bed nied with locks of wool.

Flock'-paper, n. A kind of wall-paper, having raised figures made of finely pulverised and dyed wool, laid on the surface and attached by size.

Flock'y, a. Having tufts, as wool.
Flod'den, a village of England, co. Northumberland, near the Scottish border, 5 m S. E. of Coldstream; memorable as being the scene of the Battle of Flodden-Field. near the Scottish border, 5 m. S.E. of Coldstream; memorable as being the scene of the Battle of Flodden-Field, one of the most sanguinary conflicts recorded in British history. James IV, king of Scotland, having invaded England with a large force, was encountered here, 9th Sept., 1513, by an English army under the Earl of Surrey. James, who was destitute of every martial quality except bravery, was killed, and his army totally defeated. The loss on the part of the Scots was extremely great. Besides the king himself, no fewer than 12 earls, 13 barons, and 5 eldest sons of peers, with a vast number of knights and persons of distinction, and probably about 10,000 common soldiers, were left dead on the field. The English loss was about 7,000. This is by far the most calamitous defeat recorded in Scottish annals; and as there was scarcely a family of distinction in the kingdom who did not lose one or more members in it, the whole nation was involved in mourning and despair. Archibald Douglas, the great Earl of Angus, for instance, was killed, together with his six sons and 200 knights and gentlemen of the name of Douglas. Sir W. Scott has given a vivid and generally correct account of this great battle in his Marmion.

Floe, n. [A. S. Heolan, to float.] A body of floating ice.

vivid and generally correct account of this great pattie in his Marmion.

Floe, n. [A. S. Acotan, to float.] A body of floating ice.—A mass of ice driven upon the shore.

Floets, n. (Min. and Geol.) Same as FLEYZ, q.v.

Floeg. v. a. [O. Ger. Mogarón, to inflame with passion:
Lat. Magello, to whip, to lash—Hagrum, a scourge; akin to Gr. piēzē, a blow, from piēzsō, to strike.] To whip; to lash; to scourge; to beat or strike with a rod or whip; to flagellate; to chastise with a succession of blows; as, to flog a sailor with a cato-inine-tails.

Floegger, n. One who beats with a rod or lash.

Floegging, n. The act of one who flogs; a whipping.

Floegging, n. [A. S., Dan., Swed, Icel. Jod.; Ger. fluth; allied to Lat. fluctur; root Sansk. plu, to swim.] A great flow of water; a body of moving water; a body of water flow of water; an inundation; a deluge.—The general deluge in the days of Noah. (See Deluoz.)—Flow; flux; opposed to ebb.—A river; a great body or stream of any fluid substance.

"Waat need the bridge much broader than the floot?"—Saaks.

What need the bridge much broader than the #

"What need the bridge much breader than the food?"—Saals.

—A great quantity; an overflowing; abundance; superabundance; as, a food of legal tenders.

(Mcd.) The menstrual discharge; menses.

Flood, v. a. To overflow; to inundate; to deluge; to overwhelm; as, to flood the rice-fields.

Flood'er, n. One who floods or irrigates.

Flood'er, n. A door or gate placed at the point of discharge of a large land-drain or sewer into a river, for the purpose of allowing the escape of the inland waters, during the intervals of the tides, or of the high waters in the rivers. Generally speaking, they are made with the hinges upon the upper side, and they open outwards; but they are occasionally made with vertical hinges, so hung that when the pressure of the inside waters exceeds that of the outside, the gates shall open.

—Avenue; passage; vent; opening; as, food-gates of

-Avenue; passage; vent; opening; as, flood-gates of

sorrow.

Flood'ing, n. Any overflowing; —especially an excessive discharge of blood from the uterus.

Flood'mark, n. The mark or line to which the tide rises; high-water mark.

Flook. n. Same as FLUKE, q. r.
Flook'ing, n. (Mining.) An interruption or shifting
of a lode or vein of ore by cross grain or fissure; cross-

of a lode or vein of ore by cross grain or fissure; cross-flookan; flookan.

Flook, y. a. See Fluxt.

Floor, (flöre,) m. [A.S. flor; Ger. flur; Gael. ldr, the ground; W. llawr, a level surface.] (Arch.) Any one of the stages or platforms which separate the successive stories of a building from which the stories the meelves are generally named in their order; as ground-floor, first-floor, second-floor, &c. The entire platform which separates any room from another, above or below it, consists of three distinct portions,—the joint, the flooring of the room above, and the ceiling of the room blow. The joint are narrow beams of timber about 2½ inches in thickness, and varying in depth according to the extent of span from wall to wall. As the walls of the successive stories are raised to the proper height, the joists are laid across about 15 or 18 inches apart, and the ends are imbedded in the massory. In building a the joists are insteaded in the masonry. In building a row of houses, care should be taken to keep seven inches at least of masonry between the ends of the joists bridg-

ing the space from party-wall to party-wall, to prevent them from communicating the fiames from one house to another by reason of their contiguity, should a fire break out in any one of them. To give greater stiffness and steadiness to the joists, they are often connected by short cross-stute of timber nalled transversely to the and steadiness to the joists, they are often connected by short cross-stute of timber nailed transversely to the joists and across each other in the form of the letter X, at intervals of two or three feet. The ceiling is made by nailing laths across the bottom of the joists and covering them with two or three ceatings of plaster. (See Plastrains.) The flooring consists of red or yellow deal planks about nine or eleven inches in width. The boards are laid transversely on the joists, and secured to them by long floor-brads, after having been pressed tightly together by the action of a screw that can be attached to the joists in the position required, and at any part, like a vice, during the process of laying down and nailing the boards. When a very close floor is required, the planks must be jointed together by means of a groove and tongue. (See Joinent.) The thickness of the boards varies from one to 1½ inches. After the planks have been nailed to the joists, the brads are driven below the surface with a punch, and the edges of the brards are plained, that any inequalities may be removed and the whole extent of flooring rendered perfectly level. The kind of floor that has just been described is a single-joisted floor, and is that which is usually found in buildings of an ordinary character, where the span from wall to wall does not exceed twenty-four or twenty-five feet. In small houses, the joists over a span of this extent are often rendered more steady by allowing them to bear on the framed partitions on either side of folding-doors. When the span succeeds this length, and the platforms are intended to support any great weight, as in a concert-room, assembly rooms, or warehouses, framed doors are adopted, in which girders are introduced, which are generally of which sirvers are introduced, which are generally of support any great weight, as in a concert-room, assembly rooms, or warehouses, framed doors are adopted, in which girders are introduced, which are generally of wrought iron, on account of the flexibility and eleaticity of this material, and by which the great etrain of the weight above is divided and sustained. These girders are connected by binding-joista, and bridging-joista are attached to them above, on which the flooring is laid, and ceiling-joista below, to carry the ceiling of the room or rooms beneath. Fire-proof floors may be made by filling a framework, peculiarly constructed for the purpose, with concrete or cement, on which tiles may be laid to form the flooring, or joists of timber, on which laid to form the flooring, or joists of timber, on which pose, with concrete or cement, on which the flooring or joists of timber, on which planks may be laid down and nailed in the ordinary way.

A flat, hard surface made of loam, lime, &c., used in some

-A flat, hard surface made of loam, lime, &c., used in some kinds of business, as in mailting.

(Nauk.) The horizontal portion of a vessel's bottom on each side of the keelson.

To get the floor. To get an opportunity of taking part in a debate.

11001, a. To cover with a floor; to furnish with a floor.—To strike down; to prostrate.—To silence by some decisive argument.

some decisive argument.

Floor-cloth, n. (Manuf.) Strong canvas woven from yarns made of hemp and flax combined, the surface of which is coated with paint, in order to render it a stout, which is coated with paint, in order to render it a stout, solid, and durable covering for the floors of pussages, entrance-halls, staircases, &c. The canvas used for this purpose is made in pieces about 100 yards long, and varying from 18 to 24 feet in width. This is done to obviate the necessity of joining narrow slips of canvas to form wider pieces, in which the seams would produce an unsightly appearance, and be attended with inconvenience when laid down, on account of the extra thickness of the floor-cloth in those parts where the lengths had been seen together. For parrow floor-cloth for stairs and sewn together. For narrow floor-cloths for stairs and sewn together. For narrow floor-cloths for stairs and passages, the broad webs are cut to the width required. The following is the process used in the manufacture of this material: The canvas is first cut into pieces of the required length and breadth, and the edges are fustened to the four sides of a large frame, which are then drawn apart by machinery, to stretch the canvas as tightly as apart by machinery, to stretch the canvas as tightly as possible, somewhat in the manner adopted in straining canvas for Berlin-wool work. The position of the frame is vertical, the height being equal to the width of the canvas; when this exceeds 6 or 8 feet, the upper part is reached by means of light scaffolds or stages, which the workmen can move from one end of the piece to the workmen can move from one end of the piece to the other throughout the entire length, whenever occasion may require it during the process of painting. The curvas is then in a proper condition for the reception of the size and paint, which is laid on to render it fit to undergo the final process of printing. It is first coated with strong size on both sides, and while this is still damp, the canvas is rubbled all over with punice-stone, to render it smooth and even. When the size is dry, the canvas receives two coats of paint on each side. The first coat is very thick, being more like mortar than paint; it is laid on in lumps and patches, and smoothed all over the web with a broad flat trowel, in a manner resemte web with a broad flat trowel, in a manner resem-It is iaid on in lumps and patches, and smoothed all over the web with a broad flat trowel, in a manner resem-bling that in which plaster is laid on a wall. When this is thoroughly dry, the surface is again rubbed with pumice-stone, and a second coat of thinner paint is laid on with a brush. The under side of the canvas requires nothing more to be done to it after this, but the upper side receives two or three more coats of thin paint, is-ing rubbed with pumice-stone siter each coat has been laid on, in order to produce a smooth surface to receive the urinted pattern. The canvas is now removed from laid on, in order to produce a smooth surface to receive the printed pattern. The canvas is now removed from the frame and wound round a roller, from which it is allowed to pass over a flat table, to receive the impre-sion of the blocks. Formerly the patterns were ster-ziled, as the walls of rooms were before paper-hangings were introduced; that is to say, they were produced by putting coloring-matter on the surface, through holes and lines punched in a sheet of tin or pasteboard, so as to form the design required; but now the printing is effected by blocks, a separate block being required for every color introduced into the pattern. The blocks are alout 16 inches square, and are made of deal faced with wood of a fine close grain, with a handle at the back; that part of the pattern which each block is required to imprint on the canvas is left on its surface in relief, the romaining part being cut away, as in a wood-engraving. The surface of the projecting portion of each block is further cut into small squares, technically called teeth, by narrow grooves cressing each other at right angles. This is done to effect an equal distribution of the paint, for if the surface of the projecting part of the blocks were left smooth and even, it would take up the coloring-matter unevenly, and transfer it to the floor-cloth in irregular patches. The impression is effected by applying the surface of the block to a pad or cushion charged with the color required; after which it is transferred to the floor-cloth by means of the handle at the back, and pressed forcibly upon it. It is then removed, charged again with color, and pressed on the canvas close by the sile of the first impression, points being placed at the corners of the blocks to insure the regularity of the joining of the pattern. This process is repeated until the whole of the floor-cloth has been covered with that part of the pattern which is imprinted by the first block that is used, after which the blocks intended to convey the remaining colors to its surface are used in a similar manner, until the pattern is complete. It must then be allowed to dry, care being taken to give the coloring-matter sufficient time to harden thoroughly before the floor-cloth is taken into use. The borders along the sides of narrow pieces of floor-cloth intended for passages, are produced in the same manner, by blocks of the necessary width, similarly prepared for the purpose. It should be stated that worn-out Brussels carpets afford a good foundation for floor-cloth, the walls of rooms must be pasted, which may be laid on in lengths, or formed of separate pieces put together, to furnish a design suggested by the taste of the maker. When dry, the floor-cloth must be first painted over with a coat of strong size, next with two coats of boiled linsecd-oil, and lastly with copal varnish. Floor-cloths made in this manner are strong and inexpensive, and may be washed as well as those that have been made in the pollunary way. A chean kind of floor-cloth has been may be wished as well as those that have been made in the ordinary way. A cheap kind of floor-cloth has been lately introduced for the protection of carpets and stair-carpets, somewhat similar to oil-balze, or oil-cloth for table-covers. It is made on a foundation of thin calleo, and thinly coated with paint on one side only, after which the pattern is imprinted in the usual way, or by rollers.

rollers.
Flooring, n. A platform; a pavement; the bottom or building. — The act of laying a floor. -for floors. See FLOOR. of a room

Materials for floors. See Floor.

Materials for floors. See Floor.

Floor'-timbers, n. pl. Those timbers of a vessel which are placed across the keel.

Flop, e. n. Same as Flar, q.e.

Flora. (Myth.) The godiess of flowers and gardens among the Romans, as Chloris was among the Greeks. She was worshipped among the Sabines long before the foundation of Rome, and Tatius was the first who raised her a temple in the city of Rome. It is said that she married Zephyrus, and received from him the privilege of pressliding over flowers, and of enjoying perpetual youth. She was represented as crowned with flowers, and holding in her hand the horn of plenty.

(Astron.) A small planet belonging to the group between Mass and Jupiter.

(Bst.) A collective name for plants; it is used with

(Astron.) A small planet belonging to the group between Mals and Jupiter.

(Bod.) A collective name for plants; it is used with regard to the vegetable kingdom in the same way as the term Finana with regard to the animal. It is common to speak of the Flora of a country or district; and a work devoted to the botany of a country or district is often entitled a Flora of that region.

Flo'ra, in Illinon, a city of Clayco, on B. & O. So. West. R.R., 108 m. 8.8. E. of Springfield. Is trade center of a good farming region and has some manuf. Pop. (1887) abt. 2,101.

Flora, in Knimcky, a P. O. of Hancock co.
Flo'ral and Illinon, a P. O. of Adams co.
Flo'ral Bale, in Pennsylvenia, a P. O. of Adams co.
Flo'ral, a. [Lat. floralis, from flos, floris, a flower.] Pertaining to Flora, or to flowers; as, floral games.

(Bot.) Relating to the blossoms.

Pleval envelope, a term applied to the calyx and corolla if both are present, or to the calyx when there is only one. These parts envelop or protect the more resential organs, stamens, and pistil.

Flo'ral College, in N. Cirolina, a village of Robeson co., abt. 95 m. S.W. of Raleigh
Flo'ram, s. (Mining.) Fine-grained tin.

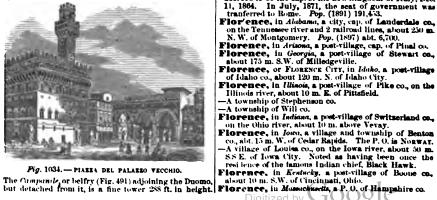
Florrascope, m. [Lat. Flora, the goddess of flowers and Gr. skoprin, to view.] An optical instrument for inspecting flowers.

inspecting flowers, a post-office of St Clair co. Flor'enville, in Illinois, a post-office of St Clair co. Florence, (It. Firense, anc. Florentia Tuccorum,) a famous walled city of Central Italy, and late cap. of that kingdom, situate on both sides of the Arno, 63 m. 8. by W. of Bologna, 68 E.N.E. of Leghorn, and 187 N.W. of Rome. It stands in a richly wooded, well cultivated, and beautiful valley, encircled by the Apennines, and is well built and agreeable. Its shape is nearly a quare, the sides of which almost correspond with the cardinal points; the Arno intersects it from S.E. to N.W., three of the quarters into which it is divided being situated on the right, and the fourth on the left bank of the river. The communication between the opposite sides of the river is maintained by means of 7 bridges. F.



Fig. 1033. - FLORENCE, (from San Miniato.)

contains a great number of magnificent edifices and squares, generally alorned with statues, columns, or fountains: there are no fewer than 170 churches, 89 confountains: there are no fewer than 170 churches, 89 convents, 2 royal, and many other pulsaces, 12 hospitals, and 8 theatres great and small. Each angle of a street presents an architectural view, fit to be drawn for a scene in a theatre. Many of the houses are palaces; and a palace in this city means a magnificent pile, venerable from its antiquity, of a square and bulky form, with a plain front, extending from 200 to 300 ft., built of huge dark-gray stones, in a massive, gloomy, and impressive manner. The roof is flat, with a deep cornice, and bulk projected soffits, which gives a grand, square, and magnificent appearance to the whole. The chimneys are grouped into stacks, the tops of which, increasing in bulk as they rise in height, resemble a crown. Many of these palaces are fitted up with great magnificence, and some of them contain valuable galleries of pictures, that are mostly open to the public. The streets, though in parts narrow, winding, and angular, are mostly wite and straight; and they are admirably paved, after the manner of the old Roman roads, with angular blocks of and straight; and they are admirably paved, after the manner of the old Roman roads, with angular blocks of trap, or sandstone. The houses generally are substantial, more so, apparently, than those of Rome. The Pazza Reals is the largest square; it has a fine marble fountain, and an equestrian statue in bronze of Duke Cosmo I. by John of Bologna. The Piazza del Mercato Vecchio, exactly in the centre of the city, has a marble column from which F radiates for one mile on each side. The Arno is decidedly superior to the Tiber at Rome. The bridge Santa Trinsta, built of marble in 1559 by Ammanasti, is designed in a style of elegance and simplicity unrivalled by the most successful efforts of modern artists. The bridges, and the handsome though not spacious quays by which the river is bordered, afford fine views of the river, F being in this respect much superior to the "Eternal City." The Duomo, or cathedral, a vast edifice, coated with marble, about 500 ft. in length, and 384 ft. in height City." The Duomo, or cathedral, a wast edifice, conted with marble, about 500 ft. in length, and 384 ft. in height to the top of the cross, stands in a spacious square. It was begun by Arnulfo di Lapo in 1296, and finished by Brunelleschi in 1426; its cupola is said to have suggested to Michael Angelo the first idea of that of 8t. Peter's. It is built of brick, and veneered, as it were, with parti-colored marble slabs, arranged in narrow strips or panels. The interior is very striking but spoiled by a circular screen of Gravian cultums required the siles. by a circular screen of Greeian columns round the altar.



Charles V. so admired it that he used to say it abould be kept in a glass case. The church of Santa Croce, called the Funkhos of F, is interesting from its containing the remains and tombs of four of the greatest men of modern Italy, or indeed of modern times—Michael Angelo, Galileo, Machiavelli, and Alfleri. Among the palaces are the Fulzase Veckio, or Old Palace (vig. 1034), inhabited by the Medici when citizens of Florence, which was begun in 1289, and finished in 1860. It is in a massive, severe, and gloomy style, with a tower 286 feet high, and is now occupied by the principal public offices. Adjoining it is the Fluzza def Fulzase Veckio, a square containing a fine collection of statues, and a noble arroade, the Loggiu di Lensi, other the principal public offices. Adjoining it is the Fluzza def Fulzase Veckio, as quare containing a fine collection of statues, and a noble arroade, the Loggiu di Lensi, other the principal public offices. Adjoining it is the Fulzase of the king of Italy, is was dead to the principal public of the principal public of the public and the public of the public

Florence, in Michigan, a post-township of St. Joseph co., about 10 miles S.W. of Lausing.
Florence, in Mismesota, a post-office of Lyon co.
A village and township of Goodhue co., on Lake Pepin, about 10 miles below Red Wing.

about 10 miles below Red Wing.

Floremee, in Missouri, a village of Montgomery co., alout 75 miles W. by N. of St. Louis.

A post-village of Morgan co., about 55 miles W. of Jefferson City.

Floremee, in North Carolina, a village of Douglas co., on the Missouri river, about 10 miles N. of Omalia.

Floremee, in North Carolina, a village of Guillord co., alout 100 miles W. by N. of Raleigh.

Floremee, in Nov Jersey, a post-township of Burlington co., on the Delaware river, about 20 miles above Philadelphia, Pa.

Floremee, in New Fork, a post-village and township of Oueida co., about 35 miles N. W. of the city of Urica.

lorence, in Ohio, a post-village and township of Erie co., about 110 miles N.N.E. of the city of Columiling

A village of Madison co., about 30 miles W.S.W. of Columbus.
-Or Wistr Florence, a post-village of Preble co., about 10 miles E.S.E. of Richmond, Indiana.
-A t waship of Williams co.

— A t waship of Williams co.

Fiorence. in Pennsylvenia, a post-village of Washington co., about 25 miles W. of Pittsburg.

Fiorence, in South Carolina, a post-village, cap. of Phorence co., 21 miles W. of Marion.

Fiorence, in Trzas, a post-village of Williamson co., abs. 45 m. N. by W. of Austin City.

Fiorence, n. [From the city Florence.] A gold coin of the reign of Edward III., equal in value to 6 shiflings sterling (§1.45).— A kind of cloth.—A sort of sweet wine.

Fiorence Station, in Illinois, a post-office of Stephenson co.

Florence Station, in Kentucky, a post-office of Mo-

Crackett co.

Florentime, s. [Lat. florentimus, from Florentia.] A native of Florence, Italy.—A species of silk, so called from the place of its manufacture.

-a. Of. or pertaining to, Florence; as, the Florentime school of art.

school of art.

Florentime School of Painting. (Fine Arts.)

This school is remarkable for greatness; for attitudes seemingly in motion: for a certain dark severity: for an expression of strength by which grace is perhaps excluded; and for a character of design approaching to the gigantic. The productions of this school may be considered as over-charged; but it cannot be dealed that they pussess an ideal majesty which elevates human nature above mortality. The Tuscan artists, satisfied with commanding the admiration, seem to have considered the art of pleasing as beneath their notice. The ered the art of pleasing as beneath their notice. This achool has an indisputable title to the veneration of all the lovers of the arts, as the first in Italy which culti-

the lovers of the arm, as the miss in assiy which converted them.

Flowes, one of the Azores or Western Islands; Lat. 39° 30° N., Lon. 31° 12′ W. Its extent is abt. 30 m. long, with a breadth of abt. 8. Desc. Mountainous, but fertile. Prod. Wheat, rye, yams, fruits, and codar-wood. Mansf. Woollen cloths. Chief them. Santa Cruz. Pop.

Mansf. Woollen cloths. Chief inon. Santa Cruz. Pop. abt. 10,000.

Flor'es, an island of the E. or Malay Archipelago; Lat. 8° 50' S. Lon. 118° 54' E. Ezt. 200 m. in length, with a mean breadth of 35. Deze. Hilly and volcanic, producing cotton, andal-wood, and bees-wax. Pop. Unknown. Flor'es, an island of 8. America, belonging to Uruguay, in the sestuary of La Plata, 15 m. long, by a mean breadth of 4. Lat. 49° 29' N., Lon. 125° 45' W. Flor'es, a town of Brazil, prov. Goyas, near Parana; pop. abt. 3,000.

Fig. alt. 3,000.
Fig. es. an island of British N. America, in the N. Pacific Orean. W. of Vancouvers Island; Lat. 49° 20' N., Lon. 125° 45' W.

Flores'cence. n. [Lat. florescens, from florescere, inceptive of florer, to bloom, from flore, a flower.] (Bot.)
A patting forth of flowers or blossoms; the season when ants expand their flowers.

plants expand their flowers.

Floret, n. [Fr. fearette, from fear, a flower; Lat. fos.]

(Bot.) A floweret; the partial or separate little flower
of an aggregate flower.

Floret, n. [Fr. foret.] A foil.

Floric omous, a. [Lat. flos, a flower, and coma, the
hair] Having the head or top ornamented with flowers.

Floricult'ural, a. Relating to the cultivation of

Sowers.
Floriculture, (flor-ccult'yur,) n. [Lat. flor, a flower, and cultura, cultivation, from colere, to till.] The cultivation of Sowers, or flowering plants. See Horncultura.
Floricult'urist, n. One skilled in the cultivation

of nowers.

Flor'Id, a. [Lat. foridus, from flos, a flower.] Covered with flowers; productive of flowers; as, a florid gurden.

Bright in color; flushed with red: as, a florid countenance.— Embellished; ornate; splendid; brilliant with decorations.

with decorations.

—A township of Parke co.

—A township of Parke co.

Fior'ida, in Mossachusetts, a post-township of Berkshire co., abt. 115 m. W. by N. of Boston: pop. abt. 900.

Fior'ida, in Missouri. a post-village of Monroe co., on Sa't kiver, abt. 13 m. E. of Paris.

Fior'ida, in Ohio, a post-village of Henry co., abt. 10 m. E. by N. of Defiance.

Fior'ida, in New York, a township of Montgomery co.

—A post-village of Orange co., abt. 110 m. 8.8.W. of Al-bany. It is the birthplace of Wm. H. Seward. Flor'ida, ("land of flowers,") the most 8. State of the American Union, reaching nearly to the tropic of Cancer, and whose major portion forms an extensive peninsula between the Atlantic and the Gulf of Mexico, having an between the Atlantic and the Gulf of Mexico, having an extent in length of abt. 385 m., by a breadth of, in the lower part of the State, abt. 50 m., expanding in the upper portion to abt. 2:0, and giving an average width of abt. 84 m. Coast-line is 1.146 m. F. lies between Lat. 25° and 31° N., and Lon. 80° and 87° 35′ W.; having N. Alabama and Georgia, E. the Atlantic, S. the Strait of Florida, and W. the Gulf of Mexico and a small portion of Alabama. Area, 54,240 sq. m of land, or 34,713,600 acres. Gen. Desc. The entire peninsula of F. is of diluvial origin, the Gulf Stream, which sets from the Gulf of Mexico round the S. and S. E. coasts, having in the course of ages worn away the land, and formed the low sandy islands generally known by the name of the Florida Keys, or "Martyra," separated from the mainland by a navigable channel which, however, is both difficult and dangerous. There are a few good harbors, the best of which are those of Pensacola and Tampa on the W., and of St. Augustine and St. Mary's on the E. coast. F. is a thurstly divided into two different zones, about F. is naturally divided into two different sones, about the 28th degre

The surface of the portion N.
of this parallel is
more elevated, broken, and broken, and wooded, than that on its 8. side, which is gener-ally level and marshy, and may be termed the be termed the be termed the true palm-tree section of the U. States. The centre rises into hills of no great elevation, which slope gradually towards the Gulf of Maxico and the A.



Fig. 1035. - SEAL OF THE STATE.

gradually to Fig. 1035.—SEAL OF THE STATE. wards the Unif of Mexico and the Atlantic, and N.W. towards the body of the continent; but proceeding toward the S., the entire surface becomes a dead flat, and, in great part, indurated plain, terminating at the extreme point of the peninsula in heaps of sharp rocks, partially covered with shrubby pines. Rivers, Lakes, &c. The chief rivers of F. are the St. John's, Apalachicola, Escambia, Suwanes, Choctawatchee, St. Mark's, Perdido, and Conceul. The first (falling into the Atlantic) partakes more of the character of an inlet or sound than of a river, from the number of lakes formed by its enlargements. Its chief affuent, the Ocklawsha, rises in the centre of the peninsula, and flows N.W. for abt. 80 m., when it unites with the St. John's proper (which has its source within a few miles of the ocean), and the embodied stream, after a tortuous course of 130 m., falls into the Atlantic, near he N.E. extremity of the State. It is a curious fact, that, though a fresh-water stream at its mouth, it is often rendered brackish toward its head from the waters of the Gulf of Mexico being driven by the winds into the the Gulf of Mexico being driven by the winds into the lagoons and marshes among which it has its sources. Both branches of this river are navigable for some distance above their junction, and have an increasing trade lagoons and marshes among which it has its sources. Both branches of this river are navigable for some distance above their junction, and have an increasing trade. The Apalachicola has its estuary in that portion of the State W. of the Peninsula. It has a course of abt 100 m. N. to S., but does not possess a depth of water proportionate to its magnitude. This river is considered to form the boundary between E. and W. Florida. There are many lakes, the principal of which are those of Okechobee, Apopka, Kissimee, in the middleof the peninsula and Lake George, an enlargement of St. John's River The S. part of F. is covered with a surface of swamp, called the Everylades, of immense extent, and covered with thousands of Islands, varying in size from one-fourth of an acre to hundreds in their area; these lakes (if lakes they can be called) have a depth of from 1 foot to 6 ft. Soil, Vepetation, dc. The whole peninsula of F. appears to rest upon a base of shell-limestone of comparatively recent formation and different degrees of hardness. The soil on the banks is often very fertile; but the proportion of good and cultivable land is, not-withstanding, believed to be but small. In the N. part of the E., and in the W. of the State, there are many finely variegated and fertile tracts, and the country is often richly wooded. One of the most valuable is a tract of abt. 150 m. long by 30 broad in W. Florida, nearly in the centre of which is Tallahassee, the capital of the State. There are some very extensive swamp and savannas, particularly the swamp of Okefoneco, half in this State and half in Georgia; and there are also some very extensive marshes. The lands of F. have been distinguished as high hummock, lone hummock, with the same kinds of timber, is liable to overflow; when properly drauned, however, it is the best land for sugar-cane. Savannas are the river alluvious, usually very rich, but requiring drainage in all ordinary years. The soil, taken on the whole, may be said to be sandy, except in the hummocks. The best la pine, hickory, laurel, the dogwood, magnolia. &c The palma christi, or castor-oil bean, attains to the growth of a tree, while, on the Keys and small islands fringing



Fig. 1036. — CASTOR-OIL BEAN, OR PALMA CHRISTI. (Ricinus con

(Bichaus communis.)

(Bichaus communis.)

(Bichaus communis.)

the coast, satin-wood, mastic, lignum-vite, and boxwood flourish in the wildest luxuriance. F is presiminently the land of fruits and flowers. Owing to its mediary climatic position, the fruits of both zones—temperate and torrid—find a luxuriant development here. The orange is largely and most successfully cultivated; it and the lemon are produced to a degree of perfection surpassing the qualities of its congeners in the S. of Europe; the lime, olive, citron, shaddock, loquat (or Japan plum), pineapple, papaw (or bread-fruit), custard-apple, guava, pomegranate, banans, date-palm. &c., flourish and fructify, side by side, with the grape, nectarine, plum, peach, apple, melon, &c., of colder latitudes. The cultivation of the cranberry, too, is spoken of as likely to be highly successful. Zööl. The deer, wildcat, raccoon, opossum, quirrel, armadillo, &c., and a variety of the serpent tribe, have their habitat in this State. Birds are numerous, and present a great variety. The rivers and creeks abound with fish, turtles, &c., and at the same time many are infested with alligators. (Rimate. The climate of F is one of elevated general temperature; it is, however, much softened by the breezes from the sea, by which the State sencelly that porton toward the perfections. of R is one of elevated general temperature; it is, however, much softened by the breezes from the sea, by which the State, especially that portion toward the peninsula, is almost surrounded. The winters are so mild, that R is a great resort for invalids, especially those affected with pulmonary symptoms. Indeed, as a winter resort, there is no climate in Southern Europe that can be compared to it, if there be any in the world. In winter, rains are seldom, froats rare, and the condition of a genial, bright sky, and delictous breezes prevail. In 8, Florida, the mercury seldom falls below 30° Rahr., and seldom riess above 94° in the shade. Malarial fevers prevail in some parts, and the seaport towns have occasionally, as in 1889, had severe epidemics of yellow fever. The summer heat is nowhere extreme, the range between prevall in some parts, and the seaport towns have occasionally, as in 1889, had severe epidemics of yellow fever. The summer heat is nowhere extreme, the range between mean summer and winter temperature being but 20°. The soil, though much of it a sterile sand, is aided in fertility by the abundant moisture, the rainfall being about 54 inches annually. Wide tracts are of unsurpassed fertility—Min. F is not rich in minerals, it having, however, some iron ore and coal, with peat, incestone, coral, ochre, amethyst, topaz, carnelian, &c. Coquina, a conglomerate of sea-shells, yields an excelent stone for building purposes. Mineral springs are numerous. Of its mineral products far the most import ant are extensive deposits of hosphate rock, discovered in 1888, and now actively mined as a fertilizing material.—Ind. The agricultural products of F. consist chiefly of maize, oats, tolacco, cotton, sugar-cane, &c. Of these maize far surpasses the other creals in its production. The valuable sea-island cotton, elsewhere limited in its growth to a few islands, is here produced far inland, and forms an important item in the annual product. The annual yield averages about 60,000 bales. The raising of early vegetables and fruits, including strawherries, for the northern market, is a large and profitable industry. Large herds of cattle are miscel, and dairy products are an item of some importance in the marketable produce of N. Florada. Among the industries of the State is a large business in the production of pine lumber, and live oak timber for shipbuilding, while the preparation of naval stores, turpentine, far, while the preparation of naval stores, turpentine, tar,

pitch, and rosin is actively pursued in the pine forests of the State. Valuable flaheries abound along the coast, including those for corals and sponges, and the inland waters are well stocked with fish. Oysters are abundant in many localities. Manufactures have not been greatly developed the principal products being the form of a flat of the control of the principal products being the form of a flat of the control of the principal products being the form of a flat of the control of the principal products being the form of a flat of the control of the principal products being the coast, and force, a flowers, and ferre, to bear.] of the State. Valuable fisheries abound along the coast, including those for corals and sponges, and the inland waters are well stocked with fish. Oysters are abundant in many localities. Manufactures have not obeen greatly developed, the principal products being cigars, which are made in large numbers. Other products embrace salt, obtained by evaporation of sea water, cotton-seed oil and mail, fertilizers produced from phosphate rock, and textile goods from palmetto fibre.—Political Dictsions, &c. The State is divided into 45 counties, as follows: 45 counties, as follows:

Jackson, Jefferson, Lafayette, Lake, Alachua, De Soto, Baker, Daval Duval, Escambia, Franklin, Gadsden, Santa Ros Sumter, Suwance, Baker, Bradford, Brevard, Calboun, Orange Osceola Citrus, Clay. Hernando, Levy, Columbia, Hillsborough, Liberty, Dade, Holmes, Madison, Pasco, Polk, Putnam, Wakulla. Walton, Washington

The chief towns are Tallahassee, (the capital), Jackson-ville, Key West, Tampa, De Land, Peusscola, St, Augustine, Orlando, Gainesville, Fernandino, San-ford, Palatka, and Ocala. F., owing to its abundant facilities for water communication, has not had great need of railroad extension, but it possessed, in 1896, facilities for water communication, has not had great need of railroad extension, but it possessed. In 1896, 3,060 miles. Regular steamship communication exists with New York, Havana, and other ports.—Government. The new Constitution, ratified in 1886, makes some sweeping changes in the State government. The patronage of the governor, hitherto unusually large, is much reduced. The judges of the circuit court, and the State attorneys are still appointed by the governor. Supreme court judges are elected by popular vote. The homestead law remains the same, giving the widow, however, certain benefits not clear in the former constitution, as interpreted by the Supreme Court: the public homestead law remains the same, giving the widow, however, certain benefits not clear in the former constitution, as interpreted by the Supreme Court; the public schools are liberally provided for, and provision is also made for necessary amendments by the people.—Landa. The State owns large portions of the public lands, which are held for sale at from 80 cents to \$1.25 per acre; much of it, however, is swamp land, of which a large section has been drained within the recent period, and a considerable area of highly fertile soil added to the agricultural lands of the State This drainage has been done by a causl, and the reclaiming of much larger areas in this manner is hoped for.—History. Florida was discovered by Juan Ponce de Leon, on Easter Sunday (called in Spanish Pascas Florida), 1513—whence its name. The Spaniards failed in an attempt to colonize it in 1521; it was explored in 1539, and the French Calvinists sent an expedition thither in 1562. The new settlers were attacked and defeated by a Spanish force in 1565. It remained in Spanish possession until 1763, when it was ceded to the British, soon after which it was divided into E and W. Florida. The Spaniards retook it in 1781, and they were guaranteed after which it was divided into E and W. Florida. The Spaniards retook it in 1781, and they were guaranteed in the possession of the same by the peace of Versailles in 1783. By a treaty concluded between Spain and the U. S. in 1819, F. passed over to the American people, and became a part of the Union as a territory, under the general government. A constitution was adopted in 1833, and it was admitted into the Union as an independent State, March 3, 1845. When discovered, F. was inhabited by a number of wild tribes, included in two families, the Tinneusa, who dwelt on the lower St. John's, and the Chahta-Muskokis, who possessed the rest of the country. Subsequently, the latter were displaced by others of the same stock, known as Seminoles, (sid semoli, wild men, or strangers). In 1836, a deadly war broke out between the settlers and this fierce and warlike tribe. This war, which suspended what prowarlike tribe. This war, which suspended what progress had hitherto been effected, and cost the nation upward of \$30,000,000, is known as the Seminole War. fleroe engagements and much loss of life. Eventually the Seminoles surrendered, and were removed to a reserving the seminoles surrendered, and were removed to a reserving to the seminoles surrendered. the Seminoles surrendered, and were removed to a reservation in the Indian Territory, with the exception of some 360 who remained in the Everglades, where their descendants still reside. An act of secession from the U.S. was passed by a convention, January 10, 1861, and Fort Pickens, at Pensacola, held by Union troops, sustained a severe bombardment from the Confederate tained a severe bombardment from the confederate forces. Jacksonville was several times occupied and evacuated by the contending forces, but St. Augustine, taken by a Union force early in the war, was held until its end. The only engagement of importance within the State was at Olustee, near Ocean Pond, on February 20, 1864, in which the Union forces were defeated with considerable loss. F. was readmitted to the Union, July 1866. 4, 1868, having accepted the 14th amendment to the constitution.

Flor'ida Keys, or REEFS, in Florida, a chain of small Flor'ida Keys, or Reff. in Florida, a chain of small islands, keys or reefs, and sand-banks, extending S.W. from Cape Florida, abt. 220 m. They are very considerable in number, but only a few are of any importance. Among these may be mentioned Cayo Largo, Indian Key, Long Island, Old and New Matacombs, Cayo de Boca, and Thompson's Island or Key West, upon which the town of Key West is built.

Florid Gothic, n. (Arch.) See PERPENDICULAR STILE.
Florid'ity, n. Freshness of color; floridness.—Embellishment with flowers of rhetoric.
Flor'idness, n. Brightness, or freshness of color, or complexion.

complexion.

-Embellishment; brilliancy of ornament, applied to

style.

Flori'do, (Rio.) a village of Mexico, in the State of Durango, abt. 180 m. N. by W. of the town of Durango; pop. abt. 2,000.

Fior'iform, a. [Fr. floriforme.] Having the form of a flower.
Fior'ilege, n. [Lat. florilegium.] A gathering of flowers.
Fior'in, n. [Fr., from It. florino; L. Lat. florenus; Ger.
floren.] (Const.) The name of a gold coin first struck in Florence in the 13th century. It was the size of a ducat, and had on one side a lity, and on the other the head of John the Baptist. Some derive the name from the city, and others from the flower. These coins were soon imitated all over Europe. It was out of them that the German gold guidens of the Middle Ages and the modern guidens arose. These last are still marked by the letters Fl. At present the English two-shilling silver piece, first coined in 1849, bears the official name of florin. It has nearly the value of the Austrian new silver florin, a unit of account, worth 486 cents of our money.

money. Florin'iaus, n. pl. (Eccl. Hist.) A sect of Gnostics of the 2d century, who were so called after a priest, Florinus, and who inclined to the views of the Valentinians. They maintained that light and darkness were two eternal principles, from which respectively all the good and evil in the universe had proceeded. See GNOSTICISM.

GNOSTICISM.

Refrie, Francis, a Flemish historical painter, B. at Antwerp, 1520, and surnamed the "Flemish Raphael." He was held in high estimation by Charles V. and Philip II. of Spain, and amassed a very large fortune. Among his best works are the Twelve Labors of Hercules, and a Last Judgment. D. 1570.

a Last Judgment. D. 1570.

Floria, in fowc, a post-village of Davis co., abt. 75 m.

S.W. of Iowa City.

Florissamt, in Missouri, a post-village of St. Louis
co., abt. 18 m. N.W. of St. Louis.

Florist, n. [Fr. fleuriste.] One skilled in flowers.—
One who writes a flora, or an account of plants.

Florison, n. [Fr. fleuron.] A border wrought with
flowers.

flowers.

Flos'cular, a. Same as Flosculost, q.v.

Flos'cule, n. [Lat. flosculus, dim. of flos, a flower.]

(Bot.) A partial or lesser floret of an aggregate flower.

Flos'culose, Flosculous, a. [ree Floscul.] (Bot.)

Applied to flowers which consist of many tubular monopations flowers.

petalous flowers.

Flos-fer'ri, n. [Lat., flower of iron.] (Min.) A coralloids! variety of Aragonite (q. v.) or carbonate of lime,
found in iron-ore beds. It resembles a loosely intertwined or tangled white cord. It occurs at Lockport

Vin Chaster co. Pa. and in great

twined of tangied white core. It occurs at occupies and Edenville, N. Y., in Chester co., Pa., and in great perfection in the Styrian mines.

Loss., n. [Icel. flos, the nap of cloth; Ger. floss, a float.]
Untwisted filaments of the finest silk, used in embroi-

on written in minera of the index sing, used in embrodery upon satin, &c. (Metallurgy.) A fluid glass floating upon the iron produced by the vitrification of the oxides and earths in a puddling furnace. (Bot.) A downy substance found in some plants, as

maize.
ioss'-hole, n. The hole for the removal of the slag

in a puddling furnace.

Flossifica'tion, n. [Lat. flos, a flower, and facio, to make.] A flowering or expansion of flowers.

Floss'-silk, n. The portion of ravelled silk broken off in the flature of the cocoons, and used for coarser fabric the flature of the cocoons.

rice.

Flota, n. [Sp.] A fleet; specifically the Spanish fleet which used to sail annually from Cadiz to Mexico, to bring home the productions of the latter country.

Flot'age, n. [Fr. flottage.] Act of floating; that which floats on the water.

floats on the water.

Flot'ant, n. (Her.) Applied to an object which is flying in the alr; as, a banner-floatant.

Flota'ilon, n. [From Float, q. v.] The act of floating; the doctrine of floating bodies.

Plane line of floatation. The line or plane in which the horizontal surface of a fluid cuts a body floating in it.

Flotil'1a, n. [8p. dim. of flota, a fleet.] (Naut.) This term is applied to any fleet, how numerous soever, composed of small vessels; as, the gun-boat flotilla.
Flot'sam, n. [A.S. flotan, to float.] (Law.) See WRECK.

Flounce, v. n. [Sw. Jianse, D. ploussen, to plungs. See Plungs.] To flounder; to throw the limbs and body one way and the other; to spring, turn, or twist with sud-den effort or violence; to struggle, as a horse in the mure; to move with jerks and agitation; to be uneasy. "You neither fume, nor fret, nor founce."— Swift.

Flounce, v.a. To deck or trim with a flounce or flounces, as a dress. Flounce. n. A sudden jerk or spring of the body; a

riounce, n. A sudden jerk or spring of the body; a quick. Irregular, and violent motion.

—A frill or ruffle sewed to the skirt of a dress, with the lower border loose, spreading, and waving; as, "a muslin founce, made very full, would be agreeable."—Pope, Flounder, n. [Ger. flünder; Sw. flundra.] (Zoil.) See PLEURONECTID. To fling the limbs and body, as in making

to progress; to struggle with violent and irregular mo-tion, as a horse in the mire; to roll, toss, and tumble; as, "he deeper sank by flowsdering in the mud"— Pope. Floun der-man, s. One who deals in flounders, or other fish.

other fish.

Flour, n. [Fr. feur de farine, from Lat. flos. floris.]

(Ciem) The finely-ground meal of wheat, and of any other corn or cervalia which has been reduced to powder in a mill. The component parts of F are starch, gluten, sugar, gum, bran, and water, the prime element

Flour'y, a. Re-embling flour.

Flour'y, a. Re-embling flour.

Flour'y, a. Re-embling flour.

Flour'y, a. Re-embling flour.

being starch. No substance is more adulterated than wheat-flour; and there are several modes of detection, the best of which is the specific-gravity test, as a vessel which contains one pound of wheat-flour will contain nearly a pound and a half of any other. Some chemical tests are also extremely good. Firstly, nitric acid, which has the effect of coloring wheat-flour of a fine orange-yellow, while it does not affect the color of fecula or starch; 201y, muriatic acid colors bons fade wheat-flour of a dear volute but discovers focula and starch, into a light starch; 2dly, muriatic acid colors bona fide wheat-flour of a deep violet, but dissolves fecula and starch into a light viscous fluid, which is decomposable by the admixture of any alkali. Another test is the amount of ash left after the sample being burnt. Wheat-flour fields, on the average, 08 per cent.; rye-flour, 10; bean and pea-meal, 3; and linseed-meal, 10 per cent of ash, by which means adulteration can be detected.

Flour, r. a. To convert into flour.

To sprinkle with flour.

Flour-barrel, n. A barrel made to hold flour.

s and linseed-meal, 10 per cent of sah, by which means adulteration can be detected.
Flour, r. a. To convert into flour.
To sprinkle with flour.
To sprinkle with flour.
Flour-box, Flour-broz, a. A box to hold or sprinkle flour; a dredging-box.
Flour-box, Flour-broz, a. A box to hold or sprinkle flour; a dredging-box.
Flourems, Maris Jean Pierre, a French physiologist, B. at Maureilhan, 1794, known as one of the most distinguished modern savana, and as the author of many most learned works in physiological science. He was professor of Comparative Physiology in the Museum of Natural History in Paris, Perpetual Secretary of the Academy of Sciences in the same city, a member of the English Royal Society, and of the academies of Edinburgh, Stockholm, Munich, Madrid, Turin, and of almost every other capital in Christendom. In 1837 he sat as deputy for the arrondissement of Bezières, but took no active part in politics; in 1846, was made a poer of France, and in 1855, Professor in the College of France. Neither honors nor revolutions, however, interrupted his studies and researches as a physiologist. One of his best-known works is Duration of Human Life, and the Quantity of Life on the Globe, published in 1854. F. considers that he has discovered the physical law of the duration of life, which is a multiple of five in respect to the time of the growth of the animal. Thus, if the horse attains his full growth at the age of five—by full growth he should live to the age of twenty, he ought to live a hundred years; but that, in man, in order to have any chance of attaining the limit of the allotted period, it is necessary, above all, to lead a "sober life;" by which he means "good conduct, an existence always occupied, labor, study, moderation, sobriety in all things." He was promoted Grand Officer of the Legion of Honor, April 24, 1845, and made member of the municipal Council of Paris in 1884. Among his most important works, besides the above-quoted, we may mention his Recherches Expérimentales sur les Propriétes et les toriques — a beautifully written series of scientific biographies. D. 1867,

Flouring, s. The business of converting grain into

flour'sh, v. n. [Fr. feurir; Lat. florer, from flos, a flower.] To come out in blossom; to thrive; to grow luxuriantly; to increase and enlarge, as a plant. — To be in a prosperous or successful condition. — To use florid language; to make a display of figures and lofty expres-sions; to be copious and flowery.

"Cloero dilates, flourishes, and gives example instead of rule."

To make bold or ornamental strokes in writing. - To

vaunt; to boast; to use braggadocio.
v. a. To adorn with beautiful figures; to ornament with anything showy.—To set off with florid expressions; to embellish; as, "flourished with much fabulous matter."

To cause to move in circles or vibrations; to brandish, as a sword.

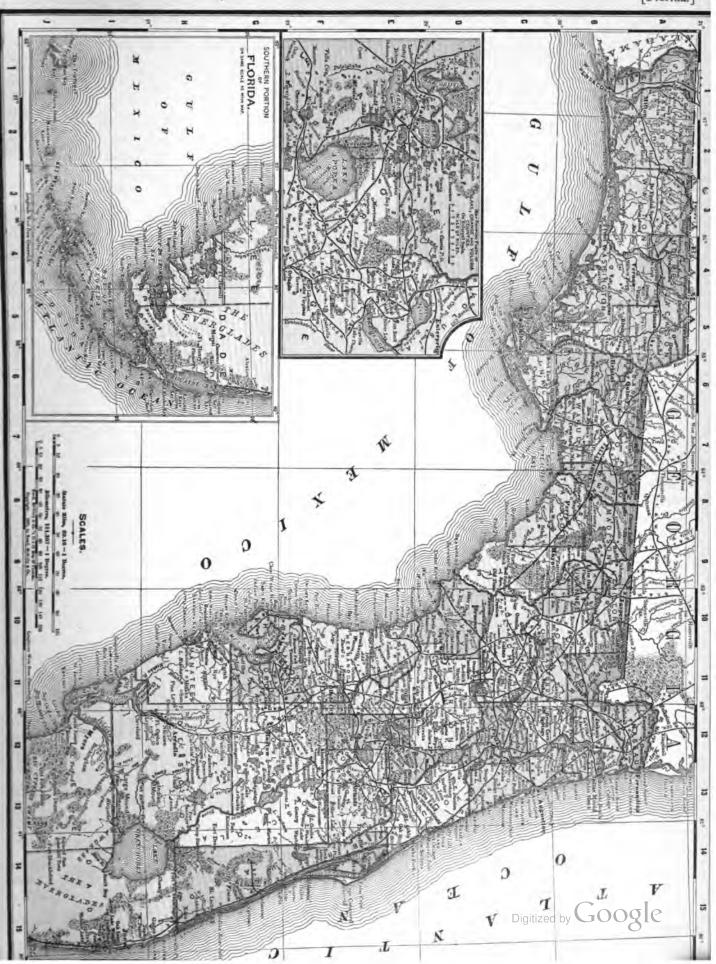
as a sword.

—n. Grace; beauty; ornament; as. "the vain fourish of fortune." — l'arade of words and figures; ambitions ornament or amplification; ostentations embellishment; as. "a rhetorical flourish." — Figures formed by bold, irregular lines, or fanciful strokes of the pen or graver; as, the "fourishes about a capital letter." — A brandishing, as of a sword.

(Mus.) To indulge in loose or showy passages, for the purpose of ornament or prelude.

Flourishing, p. a. Thriving; prosperous; increasing; making a show.

ing: making a show. Flour ishingly, adv. With flourishes; prosperously;



FLORIDA  Land area.  54,240 q. m.  Water area.  54,240 q. m.  Pop. 260	Florida—conf d.  Pop.—Eundreds. 6 Philips	Florida—confd.  Rop.—Eundreds.  2 De Leon Springs. D 13 Seville D 14 Seville D 15 Seville D 15 Seville D 16 Seville D 16 Seville D 17 Seville D 17 Seville D 18 S
2 La Villa June 2 Deland D 13 3 Sanford E 13 1 Daytona D 14 1 Warrington 1 June B 10 1 Quincy A 6 1 KissimmeeF 12 1 W. Palmbeach 1 Carrabelle C 6	3 Clearwater Harbour 6 10 3 Cottondale 3 Floral City E 11 3 Greenville B 8 3 Sanderson B 11 8 Orangepark Fort Reed E 13 3 Anthony D 11 3 Mayport B 13 5 Bronson D 10 3 Manatee H 11 3 Port Tampa	

wrongly, to boast.] To mock: to insult; to treat with contempt; as, "you float my insufficiency."—Shaks. Flow ertown, in Pensylvania, a village of Montlempt; to sneer; as, "to float at fortune."—Shaks.

Flow'er-work, n. Imitation of flowers by art.

tempt; to sneer; as, "to flout at fortune." — State.

—s. An insult; a mock; a word or act of contempt.

Plout'er, n. One who jeers or derides.

Plow, v. n. [A. S. flooran; Ger. fliesen; Icel. flota;
Rus plyes, to flow. Cf. Lat. pluere, to rain; Sanek. plu,
to swim; cansative, to wash, to lavo.] To run, as water
from its spring or source; to move along with a constant
change of place among the particles or parts, as waters,
tears, or other fluids. — To melt; to become liquid. nea."—*Isaiah* Ixiv. 1.

"The mountains flow down at thy press -To proceed; to issue; to emanate; to abound; to be in alundance; as, "the knowledge which flows from speculation." (South.) — To glide along smoothly, without harshness or asperity; to be smooth, as composition or utterance. — To rise; — opposed to ebb.

"This river hath thrice flowed, no ebb betwe

—To circulate, as the blood in the veins. — To abound; to be full; as, "the flowing bowl."
—To hang loose and waving; as, "a flowing mantle of silk."—Addison.

-To move in a stream, as air.

-To move in a stream, as air.

-r.a. To cover with water; to overflow; to deluge; to inundate; as, "to fine the ground."

Flow, s. A stream of water or other fluid; a current of
water with a swell or rise.

-The rise of water as opposed to the ebb.—Fulness;
abundance; copiousness; a stream or abundance of anything; as, "a flow of words."

"The feast of reason, and the flow of soul."-Pope.

Flew'age, s. The act of flowing; the state of being overflowed.

overflowed.

Flower, s. [Fr. fesser; Lat. flos.] (B.d.) That portion of a plant which is formed by the union of all the organs which contribute to the formation of the seed. In common language, the word is used to convey the idea of the portion in which the gayest colors are found. A complete flower consists of the essential organs or eproduction, inclosed in two particular envelopes which proter them. These essential organs are called the pistil and stances. The floral envelopes are termed cally and corrolla. The extremity of the peducie, or pedicel, upon which the parts of the flower are placed, is called the thalamus or receptacle. (See the italicized words.)

)
rly part of life, or rather of manhood; the prime
rly part of life, or rather of manhood; the prime
rly part of age."—Tope. youthful vigor; youth; as, "in flower of age."—Pope.

The best, primest, or most valuable part of anything; as,
"the flower of the nation is consumed in its wars."

Addison -A figure, or ornamental expression; as, flowers of rhet-

-pl. (Med.) Menses.

-p. (Med.) Menses.
(Caes.) A name formerly applied to different solid and volatile substances obtained by sublimation; as, Plossers of Subphur, &c.
Plowers of Benjamin, Flosers of Subphur, &c.
Plow'er, v. s. To be in blossom; to bloom; to put forth flowers; as, "the flowering fields," "a flowering surfand,"—To flourish; to be in prime; to be youthing, fresh, and vigorous; as, "all my flowering youth," (Shake.)—To froth; to ferment: to mantle, as new-bottled besseen.

-c. a. To adorn with imitated flowers.—To cause to blossom.

Plow'er-bearing, a. Producing flowers.
Plow'er-bearing, a. Producing flowers.
Plow'er-bud, n. A flower as yet unopened.
Plow'er-crowned, a. Garlanded or crowned with

Flow'er-de-luce M. See IRIS.

Flow'er-de-Ince. s. See [RIS. Flow'er-ed., p. a. Embellished with figures of flowers. Flow'er-et, n. Same as Floast, q. n. Flow'er-femce, n. (Bot.) Pointians pulcherrima, a plant of the order Fubuces, so called from being used for edges.

Flew'erfield, in Michigan, a post-village and town-

ship of St. Joseph co.
Flew'erful, a. Abounding in flowers.

Flow'erful, a. Abounding in flowers.
Flow'er-gardlem, n. A portion of ground set apart for the cultivation of flowers.
Flow'er-gentile, n. (Bod.) Amaranthus spinosus, a species of amaranth.
Flow'er-head, m. (Bod.) The capitulum, or that mode of inflorescence in which all the flowers are sessile spon a broad plate, called the receptacle, as in the Daisy.

Flew'erimess, n. The quality of being flowery;

Plow'erimg, p. a. Putting forth flowers; blossoming: blooming; expanding the petals, as plants.—Adorning with artificial flowers, or figures of blossoms.

Plow'erimg, n. The season when plants blossom; the act of adorning with flowers.

Set of adorning with nowers.

\*Plow'ering-bush, n. (Bot.) Butomus umb-llatus, a basuliful species of the genus Butomus, q. v.

\*Plow'ering-plants, n. pl. (Bot.) See Phenogamia.

\*Plow'erinwov'en, a. Decked, or adorned with

Plow'erless, a. Destitute of flowers.

Plowerless, a. Destine of nowers.

Plowerlessmens, n. The state or quality of being destitute of flowers.

Plowerless-plants, n. pl. (Bot) See Chyprogama.

Plower-marker, n. One who manufactures artificial

Flow'er-piece, s. A picture or painting representing

Flower-pet, a. A fictile vessel for a flowering-plant. Flowers, (Artificial.) See Artificial Flowers.

Flow'ery, a. Abounding in flowers or blossoms.

—Adorned with real or artificial flowers; as, the flowers kirtled Naisdes." (Millon.) —Ornate; florid; figurative highly embellished with figurative language; as, "

flowery and ornate style."

Flow'ery, in Nevada, a village of Storey co., abt. 5 m. from Virginia City.

from Virginia City.

Flow'ing, p. a. Running, as a fluid; issuing; proceeding.

Flow'ing, n. Rise or great abundance of water; an overflow; the act of moving, as a fluid.

Flow'ingly, adv. With volubility; with abundance and smoothness.

Flow'inguess, n. The quality of being fluent or smooth in discourse or composition; as, "the flowingness of easy eloquence." Nichols.

Flawk. s. Same as Fune. a. v.

ness of easy eloquence."—Nichols.
Flowk, n. Same as Fluxs, q.v.
Flown, pp. of Flv, q.v.
—a. Flushed; inflated; as, "flown with insolence and

Flowm, pp. of Flr. q. v.

—a. Flushed; inflated; as, "flown with insolence and wine." — Type.

Floyd, in Georgia, a W.N.W. co., bordering on Alabama; area, about 540 sq. m. Rivers. Coosa, Rtowsh, and Costenaula rivers, and Cedar and other creeks. Surface, much diversified; soil, generally fertile. Min. Iron, plumbago, galena, slate, satin spar, and agate. Previous to its organization into a co. in 1833, it was in the possession of the Cherokee Indians. Cup. Rome. Pop. (1890) 28,391.

—A village of Camden co., on the Santilla river, about 38 m. S. of Darieu.

Floyd, in Illisois, a township of Warren co.

Floyd, in Islisois, a township of Floyd co., on the Red Cedar river, about 18,000.

—A post-village and township of Floyd co., on the Red Cedar river, about 6 m. S.W. of Charles City.

Floyd, in Kestuchy, an E. co.; area, about 410 sq. m. Rivers. W. Fork of Big Sandy river, and the headwaters of the Licking river. Surface, broken; soil, not very; fertile. Min. Stone coal. Cap. Prestonburgh. Pop. (1890) 11,256.

Floyd, in Noteisona, a post-village, cap. of Carroll parish, about 190 m. N. of Baton Rouge.

(1890) 11,256.
Floyd, in Louisiana, a post-village, cap. of Carroll parish, about 180 m. N. of Baton Rouge.
Floyd, in New York, a post-town and township of Oneida county, about 6 miles east of Rome.
Floyd, in Virgisia, a S.S.W. co.; area, about 444 eq. m. Riesrs. Little river, an affluent of the Kanawha or New river. Surface, elevated and mountainous, lying between two parallel ranges of the Blue Ridge; soil, not fertile. Miss. Copper and iron. Cap. Floyd. Pop. (1890) 14 446.

built close together in a party-wall between two houses, or in the gable-ends of a single house, the wall itself is called a stack, or chimney-stack, and that part of it which rises above the roof is called the chimney-staft. The walls which separate flues built side by side in a stack are called withs, the walls which form their front and back being named the breast and back respectively. The horizontal section of a flue is generally oval or circular in form when the wall is built of stone, and rectangular when it is of brick. When flues are built side by side in the party-wall of two houses consisting of three or more stories, that which rises from each fireplace is constructed to pass upwards through the wall on one side of the flue, which is connected with the fireplace in the room immediately above. Chimneys in party-wall, consequently, assume a winding form, but all turns in a chimney should be gradually curved, care being taken to avoid angles, which afford convenient places for the accumulation of soot, and impede the free passage of the sweeping-machine through the flues. In addition to this, angular turnings in flues frequently lessen the free draught of air that is necessary to carry off the smoke of the burning fine below, and thus offer an obstruction to its ascent which cannot be readily removed. The cause of the ascent of smoke in a chimney is simply this: the fire burning in the grate heats the air in the flue, and causes it to become much lighter than the cooler air that fills the apartment with which the chimney communicates; the cooler air being heavier than the heated air which has been rarefied and expanded by the warnth of the fire, rushes into the fireplace and than the cooler air that fills the apartment with which the chimney communicates; the cooler air being leavier than the heated air which has been rarefied and expanded by the warmth of the fire, rushes into the fireplace and forces it upwards; this becomes heated in its turn, and is displaced by a rush of cooler air; and this process being continually and rapidly repeated, an upward current of air is produced, which carries off the smoke and vapor arising from the combustion of the fuel below. To prevent a chimney from smoking, it is necessary to let the fine be as high and as straight as it possibly can be, since the draught will be greater in proportion to the height of the chimney and the absence of all interior obstructions in the shape of elbows or angular turnings. In the next place, the opening of the fireplace and the throat of the chimney should be as small as they conveniently can be, that the greater part of the ascending air may pase through the fire prior to its ascent, and that the contraction of the chimney may canse it to rush through the narrow vent formed for its escape with greater force. The expediency of reducing the opening of the fireplace as far as suitableness will admit, may be shown by holding a newspaper before the orifice above the cavity which contains the fire. This will cause the fire to "draw up" instantaneously, and break into a blaze, — an effect which is produced solely by lessening the opening by which air is admitted into the chimney, and thereby causing the air itself to pass through the fire before it makes its way into the fine. If a chimney be constructed under the conditions above mentioned, it will very rarely be found to smoke; and even smoky chimneys may be curred by having recourse to these precautions, and by removing any obstacle that may exist in the interior to the free passage of the air and smoke. To prevent the entrance of sudden gusts and constantly presents the chimney-shafts to contract the space through which the smoke escapes into the open air, are gene between two parallel ranges of the Biue Ridge; so in not fertile. Mis. Copper and Iron. Cap. Floyd. Pop. (1890) 14.406.

Floyd, or Jacksonville, in Virgisia, a post-village, capital of Floyd county, about 1800.
Floyd burner, in Kentucky, a village of Oldham construction. The state of the property of the state of the

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vanced in front to give the time in the manual and platoon exercise; fugicinan.

Flu'id, a. [Fr. fluide; Lat. fluidus, from fluere, to flow.]

Having parts that easily move and change their relative position without separation, and which easily yield to pressure; not solid; liquid, as water, spirit, air.

—n. (Physics.) A body whose parts yield to the smallest pressure, and are moved among each other without any apparent sensible resistance. Some writers on scientific authiete distinguish between fluids and liquids. All apparent sensible resistance. Some writers on scientific subjects distinguish between fluids and liquids. All liquids are fluids; but it does not necessarily follow that all fluids are liquids; for air, ether, mercury, water, and alcohol are all fluids; but water and alcohol are also liquids, because they wet, or create moisture on bodies, which mercury and air do not. Fluids are of two distinctive kinds—elastic and non-elastic; the former are comprised under the general term Pressatics, and include all airs and gases; while the latter, which only include water and other aqueous fluids, are comprised under the general head of Hydrostatics and Hydrostics. The terms elastic and non-elastic are only used here in a relative sense, and not absolutely, as all fluids are elastic more or less, water being compressible, although offering resistance. offering resistance.

offering resistance.

Fluid'ity, n. [Fr. fuidite]: Lat. fuiditas.] That state
of a substance in which its constituent particles are so
slightly cohesive that they yield to the smallest impressions. The term is usually confined to express the condition of the so-called non-elastic fluids; and hence it
denotes one of the three states in which matter exists:
namely, the solid, the fluid or liquid, and the gaseous.
The state of fluidity is best defined as that in which
belong either to bodies in a gaseous form, or to solid
bodies reduced to fine powder. The formation of drops
arises from this — that the molecules of fluid bodies at
here to each other with a certain force, while at the arises from this—that the molecules of initio bonds and here to each other with a certain force, while at the same time they glide over one another without any sensible resistance. It is incorrect to say that the molecules of bodies in a state of fluidity offer no resistance to separation; for, on bringing a flat disc of glass or metal into contact with the surface of a liquid, a very sensible degree of force is required to separate them. That addegree of force is required to separate them. That adhesion exists among the molecules of fluid bodies is also proved by various other phenomena. Water or mercury on a flat plate of metal collects in globules, and when slowly poured into a wineglass will remain heaped up as it were above the level of the edge.

Flu'idize, r. a. To render fluid.
Flu'idness, n. Fluidity.
Flu'kan, n. (Mining.) The softest rock in metallic

Fluke, n. (Mining.) The softest rock in metallic voins.

Fluke, n. [Ger. flügel, a wing.] (Naut.) The portion of an ancher which fastens into the ground (See Fig. 121.)

Either half of the tail of a whale; so called from their general similarity in shape to the flukes of an anchor. (Mining.) The head of a charge; an instrument used for cleansing the hole previous to blasting.

Fluke, or Fluke-woorm, n. (Zoil.) See Distoma.

Flukes, in "irginia, a post-office of Botetourt co.

Flukes, in "irginia, a post-office of Botetourt co.

Fluke, a. Shaped like a fluke; having a fluke.

Flume, n. [A. S. flum, a stream; allied to Lat. fluere.]

A channel for the water that drives a mill-wheel.

An artificial channel that conveys water for gold-washing.

Flum'mery, n. [W. llymen, a river.] Pertaining to, or abounding in rivers.

Flum'mery, n. [W. llymen, sour; from llym, sharp.] (Cooling.) A kind of porridge, or hasty-pudding, made either of catmeal or flour. When prepared of the former, the finest oatmeal is to be steeped for two or three days in cold water, this first water is then to be former, the niest oatment is to be steeped for two or three days in cold water, this first water is then to be poured away, more water aided, the whole well stirred together, then strained, and the fluid eventually boiled, with a little salt, till it thickens; it is then eaten like porridge, either with milk, milk and cream, sugar, or butter: in whichever way taken, flummery is a very ex-cellent food, at once light and nutritious.

Anything insipid or nothing to the purpose; flattery.

Flung, imp. and pp. of Fixe.

Flunk, v. n. To fail through dread; to withdraw from

Flunk, v. n. To fail through dread; to window from any proposed undertaking from fear (U. S.) Flunk, n. A failure; withdrawing or backing out. (U. S.) Flunk, n. I. Probably allied to Flank, n. v.] A servant in livery. — A mean, cringing, sycophautic, or obsequious man. — A man who undertakes to deal in stocks without experience.

experience.

Flunk 'ydom, n. The collective body of flunkies.

Flunk 'ydom, n. The quality or character of a flunky.

Fluobo'rate, n. [Fr.] (Chem.) A combination of fluobo'ric Acid, n. (Chem.) See Borofluoric Acid.

Fluobo'ric Acid, n. (Chem.) See Borofluoric Acid.

Fluoc'erine, n. (Min.) A var. of Fluoczatra, q. v.

Fluoc'erine, n. (Min.) Native fluoride of cerium, occurring near Fahlun in Sweden, in hexagonal prisms and plates. Lustre, weak; color, bright-yellow or reddish.vellow.

dish-yellow.
Flu'ochlore, n. (Min.) A variety of BYR CHLORE, q. v.
Fluophon'phate, n. (Chem.) A combination of fluoric and phosphoric acids with a base.

Flu'or, Flu'or-spar, Flu'orite, n. (Min.) Fluoride of calcium. A common mineral product. frequently constituting a large part of the contents of metalliferous lodes and of veins of clay slate. It is found massive, lodes and of veins of clay slate. It is found massive, rarely columnar. It generally crystallizes in cubes, but the primary form is a regular octohedron. Lustre, vitreous, sometimes splendent. It is of various colors, wine, yellow, greenish, and violet-blue being the most common: white, green, sky-blue, and brown specimens are found, and rurely red ones. Sp. gr. 301-325. Comp. Fluorine 487, calcium, 513. The finely colored fluors have been called, according to their colors, false ruby,

topaz, emerald, amethyst, &c. The kind affording a green phosphorescent light is called chlorophane (Gr. chloros, green, and phaino, I appear), or pyro-emerald. It is abundant in Derbyshire, Eng., and is often called Derbyshire spar. Some of the varieties found there are beautifully banded, and are much prized for the manufacture of vases. It is also used for beads, brooch-stones, facture of vases. It is also used for beads, brocchestones, and other ornamental articles, but is difficult to work on account of its brittleness. Fluor-spar is used as a flux to promote the fusion of certain refractory minerals,—whence the name, from the Lat. fluo, to flow. It occurs in many places in this country. Fluoride of calcium exists in the enamel of the teeth and bones, in some ther organic products, and in certain mineral waters.

line containing fluorine.

Fluores'cence, n. The peculiar self-luminous appearance presented by certain substances on being viewed by reflected light. From being first observed in a particular kind of fluor spar, it has received the name of F.

ticular kind of fluor spar, it has received the name of F. Decoction of horse-chestut bark and solutions of sulphate of quinine possess it in a remarkable degree. Fluorescent, a. Pertaining to fluorescence. Fluorescent Rays. (Optic.) Certain mys that exist beyond the violet end of the spectrum, invisible under ordinary circumstances. If the prismatic spectrum is interrupted by a bath of esculin or sulphate of quinine, it will appear elongated at the violet end. The fluorescent rays are those that have the greatest actinic influence. Fluoric Actd., "(Chem.) See Hymoriuomic Actd. Fluorine, s. (Chem.) The hypothetical base of the fluorides and hydrofluoric acid properties have never been satisfactorily determined. Its components so closely resemble those of chlorine that but little doubt is entertained of its being very similar to that body in its leading characteristics. Symbol F; equivalent 19.

is entertained of its being very similar to that body in its leading characteristics. Symbol F; equivalent 19. Compounds containing F can be easily decomposed and the element transferred from one body to another, but the extraortinary energy with which it combines with the metals and with silicon, a constituent of glass, have defeated attempts to obtain it in a pure state. Its principal compounds are fluor or fluor-apar, and hydrofluoric acid (q, v). It also combines with most of the metals; acid (q. v.). It also combines with most of the metals; also with boron, ellicon, sulphur, silenium and phosphor-ous. No combination of F. and oxigen is known to exist. It is found somewhat sparingly in the mineral kingom, in fluor-spar, topax, some varieties of apartite and a few other minerals. It also exists in the ashes of sea-planta, sea-water, blood, milk and the human teeth. With boron sea-water, blood, milk and the human teeth. With boron and silicon it forms two compounds, which are absorbed by water, giving rise respectively to borofluoric and hydrofluoric acids (q.v.). In June, 1897, it was liquefied by Prof. Dewar at -185°C. The result was a yellow, mobile liquid, which had lost chemical activity.

moone iquid, which had not chemical activity.

Flu'orous, a. Pertaining to, or obtained from fluor.

Fluosil'teate, n. [Fr., from Lat. fluor, and silicon, q. v.] (Chem.) A compound of fluosilicic acid and a base.

Fluosille'te, a. [Fr. fluosilicique.] (Chem.) Containing fluoric acid with silex.

Fluosilic'ie Acid, n. (Chem.) See Hydrofluosilicie

Flurry, n. [Probably a corruption of Flurrer, q. v.] A sudden blast or gust of wind; a light, temporary breeze

sudden blast or gust of wind; a light, temporary breeze.

"The beat was overset by a sudden flavry from the north." Suft.

—Violent agitation; bustle; hurry: commotion; as, " this news threw her into a flavry." - Swift.

—r. a. To put in agitation; to excite or alarm.

Flush, v. n. [A. S. fleotan, to float; Ger. fliessen, to flow, akin to Lat. flavre. To flow and spread suddenly; to rush; as, the blood flushes into the face. —To come in haste; to start. (B. Jonson.) — To become suffused; to turn red; to blush. turn red; to blush.

To cause the blood to flow or rise suddenly into face; to put to the blush; as, " to fush the cheek h shame."—To redden suddenly; to cause to glow. with shame. with shame."—To reduce studenty; to cause to grow.— To elate; to elevate; to raise the spirits of; to animate with joy; as, "flushed with great victories and suc-cesses."—To cause to start; as, to flush a covey of birds. To flush up joints. (Musonry.) To fill the interstices

cesses."—To cause to start; as, to flush a covey of orda.

To flush up joints. (Musonry.) To fill the interstices
in, level, or flush with the rest of the work.

"Interstitute the rest of the work."

"Interstitute the rest of the work.

"Interstitute the rest of the work."

"Interstitute the rest of the work.

"Interstitute the work of the same suit.

"Interstitute the work of the same suit."

"Interstitute the same suit."

" Flowing; affluent; abounding; well furnished; as flush of money

Fresh; full of vigor; glowing.

Consisting of cards of the same suit throughout,

(Arch.) The continuance in the same plane of the sur-

(Arch.) The continuance in the same plane of the surfaces of two contiguous bodies is expressed by saying that they are flush; this is irrespective of the direction of the fibres or grain.

(Naul.) Applied to the deck of a ship, when it extends without break from stem to stern, as in a frigate.

Flush, adv. In a manner so as to be even or level with. Flushed; p. a. Elated; excited; animated; — tinged with a red color, from the flow of blood to the face.

Flush'er, n. (2001.) A bird of the genus Collyrio, the Lesser-butcher bird, or Red-backed Shrike, Lanius collyrio.

Flush'ing, n. A glow of red in the face from sudden flow of blood.

Flushing, a fortified scaport town of the Nether-

tremity of the island of Walcheren, 4 m. 8.8.W. of Middleburg; Lat. 51° 26′ 42″ N., Lon. 3° 34′ 57″ E. The port is extensive, ande, and has deep water. It has an extensive trade with both E. and W. Indies, and was the birthplace of Admiral De Ruyter. Pop. (1885) 8.881 Flush'ing, in Mickigua, a post-township of Genesee

county.

Flushing, in New York, the former name of a pastvillage and township of Queens co., bordering on Long
Island sound. Now part of Greater New York.

Flushing, in Obio, a post-village and township of
The County of the

Island sound. Now part of Greater New York.

Flushing, in Ohio, a post-village and township of Belmont co., about 10 miles N.W. of St. Clairwille; in a farming and coal region. Pop. (1897) about 1,000.

Flushing, in Pessaylcania, a village of Bucka co., on Neshaminy Creek, about 20 miles N.E. of Philadelphia.

Flush'mess, n. Freshness.

Flush'eer, v.a. [Icel. Januara, to hazten imprudently; from flau-tr, undue haste. Cf. Lat. flustrum, a swell of the sea, and Eng. bluster.] To precipitate; to hurry os; hence, to agitate; to confuse.

—v. m. To be in an undue hurry, bustle, or heat; to be agitated.

agitated.

agitated.

—n. Hurry; bustle; agitation; confusion; disorder.

Flus'ter, r.a. [Eng. flush.] To make hot or rosy with drink; to make half drunk.

—n. Heat or glow from drinking liquor.

Flustera'tion, Flustra'tion, n. State of being in a hurry, bustle, or confusion; undue agitation. (Colloq.)

a nurry, oustic, or commissin; under agrication. (Cortog.) Flue'ira, n. [A.S. flustrian, to weave.] (Zoid.) A gen. of Zoiphytes, family Aleyonide, so called from the malike structure of the polypidoms, which in this gen. are extremely plant-like, and by unacientific observers are generally regarded as belonging to the vegetable, and not to the animal kingdom. In some species, the polypidom support of a learning structure of a learning structure.

pidom assumes the appearance of a branching frond, with polyne cells either on one side only, or on both sides; in others, it extends as an incrustation on rocks, shells, sea-weeds, &c. The polype cells are arranged quincuncially, and are in juxtaposition, mo and are in juxtaposition, more or less quadrangular, flat, and with a distinct border, which is sometimes furnished with teeth or short spines. The polypes have the power of movonce, or the tentacles separate-ly, and show no little activity,



P.a. 1037

it, and snow no intue activity, so that a living F. seen through a magnifying glass, is a most beautiful and interesting object. One of the most common species is F. foliaces, which grows on hard ground in a few fathoms water, and is continually to be found torn up by the waves, and scattered on the shore.

scattered on the shore.

Flute, n. [Fr. fate; Ger. fate; Lat. fare, to blow.]

(Mns.) A popular instrument, the use of which, under various forms, may be traced to the most remote ages. Of its origin no direct account can be given. By the ansient poets its invention was ascribed to gods and goddesses. Lucretius tells us that it derived its origin from the breathing of the western winds over certain reeds." The sounds thus produced, he imagined, gave rise to the rural pipe, which, after undergoing many changes, has, by the ingenuity of later ages, been developed into one of the most elegant and fascinsting instruments of which musical science can least. In its veroped into one of the most elegant and neathering instruments of which musical science can locat. In its primitive state the flute was played like the m dern flageolet, with a mouth-piece at the upper end; and from the shape of this mouth-piece, which resembled

nageolet, with a mouth-piece at the upper end; and from the shape of this mouth-piece, which resembled the beak of a hird, it received the name of flate à bec. In this form, with slight alterations, it continued until the beginning of the last century, when it was gradually superseded by the flaulo traverso, or transverse flute, so called from the lening blown at the side, and consequently held in a horizontal position. At its introduction this instrument was about eighteen inches in length, and had but one key. Even in this state it was a great improvement on the old flute à bec. Shortly after, a movable head-joint was invented, its length being increased, and more keys added, some flutes at the present time having more than a dosen keys, and few less than six. By means of these they are enabled to execute any music, however chromate, if within their compass, which extends from C below the treble to C in altisamo. Some few will go four notes lower, and C below the treble to G in altisatino. Some few will go four notes lower, and an experienced player will reach E flat in altisatino. In December, 1832, a flute of an entirely new construction was invented by Mr. Boshm, of Munich. invented by Mr. Boshm, of Munich. It however remained in obscurity until 1837, when it was adopted and introduced to the French professors by Mr. Cadmus: but they considered its adoption would be attended with too much trouble, in consequence of its having an open G-sharp key. This, however, was soon after remedied by Mr. Dorus, who put a shut G-sharp key in its place. It now became universally adopted; and having in its altered state received the approval of the Royal Academy of Fine Artain Paris, has been thoroughly established in France ever since.



Pia. 1039. PLUTED COLUNY

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(Arch.) An upright channel on the shaft of a column, usually ending hemispherically at the top and bottom (Fig. 1638). Their plane or horizontal section is sometimes semicircular, or segmental, or elliptical, as in some examples of Grecian architecture. The Doric column has twenty flutes round its circumference; the Ionic, Curinthian, and Composite have respectively twenty-four.

column has twenty nuise round its circumerence, the fouric. Corinthian, and Composite have respectively twenty-four.

—e. a. To sing or play in a soft tone, similar to that of a flute. —To form flutes or channels, as in a column. — To form or shape, as corresponding channels in the muslin of a lady's ruffle.

Flut'sed, p. a. Channelled; furrowed; as fisited columns. —Thin, fine, flute-like, as musical notes.

—Thin, fine, flute-like, as musical notes.

Flut'er, a. One who plays upon the flute. —One who makes channelled work on columns.

Flut'sing, a. A channel or furrow in a column, or in the muslin of a lady's ruffle; fluted work.

Flut'ster, s. A performer on the flute.

Flut'ster, s. A. S. floteran; D. flodderen, to flap, to waver; Ger, flattern, to move about with quick vibrations; allied to fit.] To move or flap the wings rapidly, without flying, or taking but short flights; to hover.

—They fiel, and flut'ring by degrees withdrew."—Drydon.

—To move about quickly and irregularly, or with great

To move about quickly and irregularly, or with great leastle and show, without consequence; as, the fops who flatter in the ball-room.—To be in agitation; to be in a state of uncertainty; to wave; to fluctuate.

"We flattered upon the wings of doubtful success."—Howell.

"We fastered spon the wings of doubt'al success."—Howell.

—r. a. To hurry the mind of; to agitate; to disorder; to throw into confusion.

Finz'der, n. Vibration; undulation; quick and irregular motion; as, "the futter of a fan."

—Hurry: tunuit; agitation of mind; confusion; disorder; irregularity of position.

Finz'derer, n. One who flutters.

Finz'deringly, adv. In a fluttering manner.

Finz'deringly, adv. In Some post-village of Chautauqua co., abt. 136 m. W. by S. of Albany.

Finzyderingly and in New York, a post-village of Chautauqua co., abt. 136 m. W. by S. of Albany.

Finzyderingly, adv. In some parts fertile. Min. Gold. Cap.

Palmyra.

Palmyra.

Fluvial Fluviat'se, a. [Lat. furialis, furiaticus, from furius, a river, from fuere, to flow.] Belonging to rivers: growing or living in streams or ponds; as, furiatic planta, furial deposits.

Fluvialist. s. A person who undertakes to explain the geographical or geological phenomena of a region or country by the action of existing streams.

Fluvialist. s. Fluvialist. See Fluvial.] Belonging to rivers; formed by, or existing in, rivers.

Fluvialist. see formed by, or existing in, rivers.

Fluvialist. See Fluvial.

their mouths.

Finx, s. [F., from Lat. fluxus. a flowing, from fluere, to flow.] The motion or passing of a fluid; as, a flux of water.—The moving or passing of anything in rapid

"Languages are in a perpetual faz."—Felton.

"Concourse; confluence; as, "the flux of company." Shaks.

"The flow of the tide, — opposed to reflux.

(Med.) Any preternatural fluid evacuation from the body. but more especially those that proceed from the bowels. It is frequently applied to diarrhose; and dysentery was long known as the bloody-flux.—See Diarence, Dryskykey.

(Chem.) One of those compounds which are used by the chemist either as aids to the fusion of ledies, or as reducing or oxidizing agents. Fluxes may be divided into four classes—reducing, oxidizing, double decomposing, and simple fluxes. The most important reducing fluxes are the carbonates of soda and potash (used alone or mixed with charcoal), cyanide of petassium, and black flux (a compound formed by throwing into a red-hot crucible a mixture of two parts of cream of tartar, and one of water); the nitrates of potash and soda are the principal oxidizing fluxes; and a mixture of three parts carbonate of soda and four of carbonate of potash forms an excellent double-decomposing flux. The simple fluxes act as purifying agents, removing and dissolving any mechanical impurity contained in the substance acted upon. Borax, nicrocosmic salt, and powdered glass are used as simple fluxes. The limestone used in iron-smelting is a good example of a flux.

Flux is selfity, n. [Lat. fluxibilitas, from fluere, to flow.]

Fig. x 160m, n. The act of melting, tusing, or making liquid.

Fig. x 156i'fty, n. [Lat. fuxibilitas, from fuere, to flow.]
The quality of being fluxible.

Capable of being melted or fused, as a mineral.

Fig. x 15ble. a. [Fr., from Lat. fuxibilits. See Flux.]
Capable of being melted or fused, as a mineral.

Fig. x 16m, n. [Fr., from Lat. fuxio, from fuere, to flow.]

Fig. x 16m, n. [Fr., from Lat. fuxio, from fuere, to flow.]

The act of flowing, or moving as a fluid. — The matter that flow. — Fusion, as of metals.

(Mol.) A flow of blood or other humor toward any organ with greater force shau natural.

(Mol.) The analysis of infinitely small variable quantities, invented by Newton in 1665. Newton considered a curve as generated by the uniform notion of a point, and decomposed at every instant by the constant velocity of this point into two others, one parallel to the lother axis of the abscissa, and the other parallel to the

axis of the ordinates. These velocities are what he called the flazions of the co-ordinates; while the arbitrary velocity of the point which describes the curve is the fluxion of the arc. Reciprocally, the arc described is called the flazions of the velocity with which it is described by the moving point; the corresponding absciss is the fluent of the velocity estimated in the direction of the absciss, and the ordinate the fluent of the velocity of the point estimated in the direction of the ordinate. The same considerations may be extended to the areas bounded by curve lines, to surfaces and the volumes which they determine, to forces which give rise to motion in bodies, and to the effects which they produce. In fact, the theory is applicable to everything which forms the object of the mathematical or physico-mathematical sciences.—The methods of integral and differential calculus, which are less complex and more trustworthy, have superseded the fluxions, although they are still employed in working out some problems.—See Differential Calculus, which are less complex and more trustworthy, have superseded the fluxions, although they are still employed in working out some problems.—See Differential calculus, which are less complex and more trustworthy, have superseded the fluxions, although they are still employed in working out some problems.—See Differential calculus, which are less complex and more trustworthy, have superseded the fluxions, although they are still employed in working out some problems.—See Differential calculus, which are less complex and more trustworthy, have superseded the fluxions, although they are still employed in working out some problems.—See Differential calculus, which are less complex and more trustworthy, have a superseded the fluxions and differential calculus.

Flux 'lomail, Flux'ionary, a. Pertaining to, or solved by, fluxions.—To move or pass with velocity or celeration by an elastic force.—To move or sait through the air by the aid of wings, as a bird.—To float or move in the

-To cause to fly or float; to attack by a bird of prey; as, to fly a flag. "To fly other ravening fowl with a falcon." — Hacon. "I hacon." — Hacon. "I hacon." — Hacon. I hacon. I hacon. I hacon in the substitution of s of between two and six setuceous pieces of scaly tex



Fig. 1039. — HOUSE-FLY; (magnified.)

ture, and these pieces are either inclosed in a proboscisshorth, or covered by one or two lamine, which it. The head is globular or hemispherical. The like sheath, or covered by one or two lamine, which form it. The head is globular or hemispherical. The mouth is only formed for transmitting fluids, and is consequently very delicate in structure. The sucker performs the part of a lancet, and pierces the envelope of vegetable or animal fluids, in order to allow of the fluid itself being transmitted up into the mouth of the insect. The antennes are united in front, and are approximated at the base. Above the true wings of the insect, and a little behind them, are the balancers or halters; these are almost membranous, and are furnished with two little knobs at their extremities, which are capable of dilatation. The legs of this class of insects are long and slender; and the feet it is well known are furnished with skinny palms, to enable them to stick on glass and other smooth bodies by means of the pressure of the atmosphere.

(Mach.) That part of a machine which, being put in motion, regulates the rest.

(Nout.) That part of a compass on which the 32 points are drawn, and to which the needle is attached underneath; the compass-card.

(Printing.) That part of the machinery of a printing press, which withdraws the sheet, and lays it aside after the impression is made.

Fly'-catcher, π. One who catches flies.

(Zoöl.) The Muccicapidπ, an extensive family of birds, order Inscasors, represented in N. America by abt. 30 species. As their name implies, the fly-catchers prey on insects, which they seize in mid-air. They have the beak horisontally depressed, and armed with bristics at its base, with the point more or less decurved and emarginated. The value of the insectivorous family of birds to man is incalculable. As Buffon truly says:

"Vain would be the efforts of man to destroy or banish the clouds of flying insects by which he would be assailed. Man and quadrupeds cannot defend themselves against them. They attack with their stings; they oppose the progress of cultivation, and devour the useful productions of the earth. They infect with their excrement, or their eggs, all the provisions which are necessary to be preserved. Thus we find that the beneficent birds are not even sufficiently numerous in such climates, where, nevertheless, their species are by far the most multiplied." One of the best types of fly-catchers is that presented by the Tyrant Fly-catcher, King-bird or Bee-martin, Muscicapa Tyrannus. or Tyrannus Curolinensis. This bird is peculiar to America east of the Rocky Mountains. It is 8 inches in length, and 14 in extent of wing. The general color of the upper parts is a dark biulsin-gray, inclining to dull slate-black, on the head of which the central feathers along the crown form a gorgeous orange patch. It builds its nest on branches of trees; it is a rather bulky structure, composed of twigs and wool, or tow and cotton, and is very thick and snug. It scarcely deserves its ugly appellation, as it is only at those periods when its mate is attached to the nest by care for



Fog. 1040. THE KING BU

her little brood, that this fly-catcher is more flerce or tyrannical than any other. At such times, however, it cannot be denied that his conduct is rather outrageous. tyrannical than any other. At such times, however, it cannot be denied that his conduct is rather outrageous. No matter the species of bird, no matter its size or strength, it is sufficient that it approaches any way near the tyrant's nest to excite his jealous rage, and out he sallies bent on instant satisfaction. It is said that eagles and hawks may not with impunity approach this bird's nest, made sacred by his fledglings, and that, darting up into the air, it will launch down on to the tack of its enemy, and there anchor in such a way as to make it a difficult matter to disledge him. The European species, Musiciapa grisola, the Beam-bird or Bee-bird, is distinguished from any other by having much more slender bills, with shorter bristles at the gape.

Fly Creek, in New York, a post-office of Ousego co.

Fly'sish, r. n. To use flies for bait in angling.

Fly'sishing, n. A fan or flapper for driving away flies.

Fly'siapper, n. One stationed at or near a table for the purpose of driving away the flies; one who wields the fly-flap.

the purpos the fly-flap.

Fly-honeysuckle, n. (Bot.) See LONICERA.
Fly'ing, n. The power which many animals present of raising themselves in the air, and in moving through it in various directions, supported by the atmosphere alone.

In various directions, supported by the atmosphere alone. See Wing.

See Wing.

Artificial.) a species of propulsion through the air by means of mechanical or artificial contrivances, often attempted by men. The art of flying, if it can be called an art, has been often attempted; even among the ancients it was tried, and we are informed, succeeded to some slight extent. Frier Bacon affirms, in his writings, that this art is not only possible, but he also informs us that he himself knew how to construct a machine in which a man, in a sitting position, might be able to transport himself through the air like one of the feathered tribe. This secret of Friar Bacon consisted of a very simple mechanical contrivance: it was a pair of globes made of hollow copper, exhausted of air, on which a chair could be supported, by which means a man could float in the atmosphere above the earth, and could buoy himself along. Another friar asserts the truth of this invention, or, at least, of one similar. Father Francisco Lana declares that a round vessel of plate-brass. 14 feet in diameter, weighing three cunces per square foot, will only weigh 1,848 oz.; whereas a quantity of common air of the same bulk will weigh 2,155% oz.; consequently he deduces the fact that the globe will not only be sustained in the air, but that it will be capable of supporting a weight of 373% oz.; and also, that a globe of the same weight, but greater in capacity, would support a man. This, however, is a fallacy; for, from the fact of

the great force of atmospheric pressure, such a globe would be crushed if exhausted of air. At various periods

FM

the great force of atmospheric pressure, such a globe would be crushed if exhausted of air. At various periods this subject was revived by theorists, particularly in the reign of Charles II., and the assertion has been made that by the march of improvement man will, at no distant period, become as able to fly in the air as to walk upon the earth. While this is not probable, flight in some form may yet be accomplished. See Arronaurios. Fly'ing-artif'léry, n. (MR.) Horse artiflery. Fly'ing-artif'léry, n. (MR.) Horse artiflery. Fly'ing-artif'léry, n. (MR.) Horse artiflery. Fly'ing-artif'léry, n. (MR.) A contrivance for crossing rivers in rapid movements; a temporary bridge; a bridge of pontoons, &c.
Fly ing-touttreas, n. (Arch.) See BUTTRESS.
Fly'ing-camps, n. (Mil.) A camp or body of troops kept constantly in the field to cover its own garrisons, and annoy the enemy.
Fly'ing-flash, n. (Zoil.) The Kalong, an animal of the Bat family, of which it is the largest species. It derives its common name of flying-fox from a fancied resemblance of its head to that of a fox. It is found in the islands of the £ Archipelago, where it occurs in great numbers. These animals are vegetarians in their diet, and commit great ravages in the gardens and plantations in the countries in which they abound. That they may occasionally live on animal food, is inferred from the fact that, when in confinement, they have been known to devour the flesh of birds with great avidity. Like the rest of the bats, they are nocturnal in their habits, and during the day they remain suspended from the trunks of trees, usually affecting those of the fig genus for this purpose. So quietly do they keep in this clinging attitude, that any one not acquainted with the habits of the tree itself, and only be undeceived when, disturbed by his presence, the seemingly long, pendent fruit suddenly assumed animal life, and fluttered in masses round and round their roost.

Fly'ing-le'mur, n. (Zoil.) The Galeopitheous volura.

round their roost.

Fly'ing-le'mur, n. (Zool.) The Galcopithecus volans, called also Colugo, an animal closely silled to the Bats, which possesses the power of flying or leaping considerable distances, by means of a membrane connecting its limbs with each other. The F-L. forms the connecting link between the Quadrumana and the Cheiroptera; to the latter, indeed, it has a great resemblance, insomuch as many paturalists

as many naturalists of emineuce have placed it in that order. It differs, however, from the bats in many respects, not the least important deviation of which is the ab-sence of opposable thumbs on all the feet, which are composed thumbs on all the feet, which are composed of five fingers united by amembrane. Notwithstanding this, it certainly bears in its appearance and habits a romarkable similarity to the fivinglarity to the flying-fox. In its diet, it is both carnivorous and both carnivorous and frugivorous: feeding on birds and their eggs, in sects, and fruits. It is found in the Indian Archipel-ago, living in the for-cets; seeking by night for its food, and re-maining in a dormant state during the day, as



Fig. 1041. - FLYING-LEMUR.

for its food, and remaining in a dormant state during the day, as already related of the flying-fox. The natives occasionally eat this animal; but fastidious judges pronounce its flesh as being extremely nauseous. Fly'ing-party, n. A party of scouts. Fly'ing-party, n. A nunprinted or blank leaf, at the beginning or end of a book.
Fly'man, n. An unprinted or blank leaf, at the beginning or end of a book.
Fly'man, n. Fly'-man, n.; pl. Fly'-man. The driver of a fly, or light public vehicle.
Fly Mountain, in New York, a p. vill. of Ulster co.
Fly'man, n. North Carolisa, a P. U. of Moore co.
Fly'-poison, n. (Bot.) See Amianymum.
Fly'-powder, n. An imperfect oxide of arsenic, which, nixed with sugar and water, is used to kill files.
Fly'-rail, n. The part of a table turned out at right angles therewith, to support the leaf.
Fly'-speeck, n. The stain left by the excrement of any insect, especially of the common fly.
Fly'-wheel, n. (Mcch.) A wheel with a heavy rim, placed on the shaft of any machinery put in motion by any irregular and intermitting force, for the purpose of rendering the motion equal and regular by means of the momentum. The rim of a fly-wheel, after a few any irregular and intermitting force, for the purpose of rendering the motion equal and regular by means of its momentum. The rim of a fly-wheel, after a few revolutions, acquires a momentum sufficient to cause it to revolve with a velocity depending upon the resistance of the machinery. In all cases where a rotary motion is to be obtained from a reciprocating one by means of a crank, a fly-wheel is necessary to continue the motion at those two points of the revolution in which the crank lies in the direction in which the moving force acts. The momentum acquired by the fly-wheel urges the crank forward in the direction in which it was previously moving, and continues the rotation, thus making the motion equal and uniform.

F. M., abbreviation of Firith-Marshall, q.v.

Foe, the name given by the Chinese to Buddha. Originally, the name Buddha was expressed in the Chinese language with sufficient exactness by the term Nothau, pronounced Fou-dah; but, as is usual in China with proper names, the last syllable was subsequently dropped. According to the Chinese historians, the religion of Buddha was introduced into China in the reign of Ming-ti of the dynasty of the Hana, about the sixty-fourth year of the Christian sera; but there is good reason to believe that the doctrines of the Indian reformer had been carried thither before that period, and that it is only to their official recognition by the government that this latter das in all countries where Buddhism is professed, with the exception of a few trifling deviations which the various translations of the Buddhist writings from their original Sanskrit have naturally generated.—See Buddhism.

Foal, n. [A. 8. fola; Ger. füllen; Fr. poulain; Lat. pullus; Gr. pöloz.] The young of the equine genus of quadrupeds; a colt, or filly.

Foal, v. a. To bring forth, spoken of a mare, or she-ass of the equine genus, as a mare and other beasts of the equine genus.

Foal, w. n. The act of bringing forth a colt or filly.

FOGM, b. b.

— s. n. To bring forth young, as a mare and
of the equine genus.

FOGM'IME, m. The act of bringing forth a colt or filly.

FOGM-FOOL, m. (Bot.) See TUSSILAGO.

FOGMM, n. [A. S. fum; allied to Lat. spama, or puma.]

The white substance which agitation or fermentation
gathers on the top of liquors; froth; spume.

— v. n. To froth; to gather foam; as, a foaming horse, the
foaming bowl.— To be in a range; to be violently agitated.

"He foamed and gnasheth with his teeth." — Nork ix. 11.

To cause to froth. — To throw out with rage or

"He formest and gnashest with his teeth." — Mark ix. 11.

—v. a. To cause to froth. — To throw out with rage or violence.

Form '18 y, adv. Frothily.

Form '18 y, adv. Frothily.

Form '18 y, a. Destitute of foam.

Form '18 y, a. Destitute of foam.

Form '18 y, a. To cause of it is possible of the foother.

For '19 y, a. Covered with froth or spume.

For '19 y, a. Covered with froth or spume.

For '19 y, a. Covered with froth or spume.

For '19 y, a. Covered with froth or spume.

For '19 y, a. Covered with froth or spume.

For '19 y, a. To theat; to tick; to defraud; to impose upon.

To fod off, to shift off; to put saide by an artifice; to delude by a trick; aa, "I determined not to be fobbed of with a garter." — Addison.

Forels, a. [Fr., from Lat. focus. See infra.] Belonging to or concerning a focus; as, a focal point, the focal distance of a lens, or ellipse.

Forelsize, v. a. To bring to a focus; to concentrate, as light or sound.

Forels, (fo'si.) n. (Anal.) The greater bone of the arm or the leg, the latter being termed focile winss.

Forelsize eter., m. [Lat. focus, and Gr. metron, a measure.] An instrument for bringing to a focus or concentrating.

Foreus, n.; pl. Focuss or Fo'ct. [Lat. focus, a hearth, or point of greatest heat; allied to forere, to warm.] A central point; a point of concentration or convergence.

(Optics.) When light is reflected from regular curved concave surfaces so that all the rays converge to one point, that point is called the focus. The same term is applied to that point to wards which rays of light converge after passing through a refractory medium, such as a lens. A telescope, or other optical instrument, is said to be in focus when the arrangement of lenses is such that the object examined falls clearly and distinctly upon the retina of the observer. In the reflection of heat, the point to which the rays converge is also called the focus.

(Geom.) A term applied to certain points in the parabola, ellipsis, and hyperbola, where the rays reflected from all these curves conve

Jocus a camera.

fodd'der, n. [A. 8. fodder, foder, from fedan, to feed; Ger. futter.] (Agric.) The food given to animals, such as the stems and leaves of plants. In fact, whatever is given as ordinary food is termed fodder, whilst corn, cats, beans, &c., are termed solid food. In some parts, hay and straw, mingled together, is particularly denomi-

oats, beans, &c., are termed solid food. In some parts, hay and straw, mingled together, is particularly denominated fodder.

Fodder, v. a. To feed with dry food or cut grass, &c.; to furnish with hay, straw, oats, &c.
Fodderer, n. One who fodders cattle.

Foe, n. [A. S. fdh, from fdn, to hate; Ger. feind.] An enemy in war; an adversary; an opposing army or nation at war; as, "he fought great battles with his savage foc."—Spenser.

—An enemy: a persecutor; one who entertains personal enmity, grudge, hatred, or malice against another.—An opponent; an ill-wisher; one who opposes anything in principle; as, "a foc to received doctrines."—Watts.

Foemse wath, "a foc to received doctrines."—Watts.

Foemse wath, "a foc to received doctrines."—Watts.

Foemse worthy of his steel."—Scott.

Foemse alumn, n. [Lat. foems.] (Bot.) The Fennel, a genus of plants, order Apiaces, distinguished by the cylindrical, strongly ribbed fruit. The flowers are yellow. All the species are aromatic, and have much divided leaves with thread-like segments. The beet known is the common fennel, F. rudgare, a native of the south of Europe. It is a biennial, three or four feet high, and is cultivated in gardens chiefly for the sake of its leaves. is cultivated in gardens chiefly for the sake of its leaves which are boiled, and served with mackerel, with salmon

which are boiled, and served with mackerel, with salmon, and occasionally with other kinds of fish, or are employed to form a sauce for them.

Formum Greecum, s. [Lat., gray hay.] (Bot.) The Fenngreek, a genus of plants, order Apiacez. The leaves have three obovate leaflets and scythe-shaped stipules. The flowers generally have the ked very small, so that the wings and standard present the appearance of a tripetalous corolla. The common F. is a native of the south of Europe, and of some parts of Asia; it is much cultivated in India as a fodder-plant.

For tal, a. Same as Fexal, q. v.

coarse grass, not mowed or eaten down in summer or autumn.

Foggia, (fōfa,) a city of 8. Italy, cap of prov. of same nane, in the centre of the great Apulian plain, 46 m.

E. by 8. of Campo Basso. It is well built, most of the houses being reconstructed since an earthquake, which happened in 1732. It has large storehouses for keeping corn, and is the place where the flocks that feed on the great plain of Apulia are registered. Pop. 25,000.

Foggily, adv. Mistily; darkly; cloudily.

Foggily, adv. Mistily; darkly; cloudily.

Foggily, a. Misty; cloudy; full of moist vapors or watery exhalations; as, a foggy atmosphere, a foggy climate.—Cloudy in intellect; darkened; dull; as, foggy ideas.

Foggle, n. Same as Foor, q. v.

Fogles, a. Free from fog.

Fogless, a. Free from fog.

Fogless, a. Free from fog.

Fogless, a. In Iransylvania, a post-village of Lehlgh co., about 9 m. W. by S. of Allentown.

Toggo, an island of British N. America, in the Atlantic Ocean, off the N.E. coast of Newfoundland; Lat. 49° 40' N., Lon. 54° W.

Foggo, Fue-go, or St. Philip, one of the Cape de Verd

N., Lon. 54° W.

Fo'go, Fue'go, or St. Philip, one of the Cape de Verd islands, in the Atlantic Ocean, and the highest of the group, being 9,780 feet above sea-level, and presenting the appearance of one single mountain, though, on the sides, there are deep valleys; Lat. 14° 53' N., Lon., 24° 30' W. Arca, 40 n. in circumference. It has no rivers; and a scarcity of fresh water prevails, yet it is one of the most fertile islands of the archipelago, producing excellent maize and fruits. Chief town. Nossa Senbora da Lux da Luz

Fog-ring, n. A bank of fog in the shape of a circle.
Fogy, Fogst, Fogst, n. [Ger. vogt, a bailiff, a guard;
derivation uncertain.] An eccentric old man; a stupid or dull man; a clown.

or dull man; a clown.
Fo'gy isma, n. The principles or conduct of a fogy.
Foh, (fô,) interj. [A. S. fan, to bate.] An exclamation of abhorrence or contempt; the same as poh and fre.
Fohl, (fô/hc,) the first Chinese emperor and legislator.
He is said to have founded this kingdom 2207 years B. C.
Nothing certain is known of his reign; but there are attributed to him the institution of marriage, the invention of fabrical business and the same as the

Nothing certain is known of his reign: but there are attributed to him the institution of marriage, the invention of fishing, hunting, music, and writing. He acknowledged and worshipped a supreme delty. He is supposed to be the Nosh of the Bible.

Foh-kizent [76 keen.] a maritime prov. of China, bounded S.E. by the China Sea, and inclosed on all other sides by the provs. Tech-kiang. Kiang-se, and Kwang-tung. Lat. between 24° and 28° S., Lon. between 110° and 121° E. Area, 53,480 Eng. sq. m. Desc. Mountainous: the river Min intersecting its surface, and emptying into the sea below Foo-choo-foo, the capital. Ared. Black tea, sugar, camphor, tobacco, and indigo. Mis. Iron and aium. Exp. Tea, porcelain, umbrellas, and other manufactures. Pp. (1891) 14,777,400.

Fohr (for), an island of Prussia, on the W. coast of Schieswig, in the N. Sea; Lat. 54° 43° N. Lon. 8° 30° W. Area, 25° sq. m. Part of the island belongs to Jütland, and part to Schieswig. Oysters are largely obtained here. Foilble, n. [O. Fr. foible, weak.] A weak point in character; a particular moral weakness; a predominant failing; a fraility; a defect; as, "he knew the foibles of human nature."—Friend.

Foil, v. a. [Fr. affoler, from fou, fol. a fool.] To ruin; to undo; to wound or bruise with blows; to frustrate; to defeat, as an adversary.—To render vain or nugatory, as an effort or attempt; to baffie; to balk; as, to foil an adversary.

—n. Defeat; miscarriage: the failure of success when on the point of being secured; frustration.

"Nor view was fats so near a foil."—Dryden.

"Nor e'er was fate so pear a foll." - Druden

"Nor e'er was fats so near a foil."—Dryden.

Foil, n. [O. Fr. refoull, dulled, blunted.] A blunt sword, or one that has at its end a button covered with leather, used in acquiring or practising the art of fencing.

Foil, s. [Fr. fenille; Lat. foilum, a leaf.] A leaf or thin sheet of metal placed beneath transparent jewels to heighten their color and improve their brilliancy; also to those sheets of tin amalgam placed behind mirrors to make them reflect perfect images. They are made of copper, tin, and silvered copper, and are much used in imitations of precious stones. Colored foils are made by coating the white with any varnish of the required tint. The sheet lead which is used for the lining of teachests is a species of foil, and the Chinese purchase about 4,000 tons of lead annually from England for this purpose.

purpose.

Anything of another color, or of different qualities,
which serves to adoru or set off a thing to advantage.

"As she a black silk cap on him begun
To set, for feel of his milk-white to cerve."—States.

Digitized by GOOGIG

The span between the cusps of feathering architecture. Most usually the curves of the (Arch.) in Gothic architecture.

feathering spring from some one of the mouldings of an arch, &c., but there are numerous instances in which the whole suite of mouldings follow the same form; the arch is then said to be foiled. Feathering was first intro-duced towards the close of the Early Style and continued

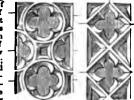


Fig. 1042. --- QUATREFOILS.

Style\_and continued Fig. 1042.—QUATREFOILS. universally prevalent until the revival of classic architecture. When a ti-fuil, quatrefoil, or cinquefoil are spoken of, it generally means an opening pierced with three, four, or five foils respectively.

Foil'er, n. One who frustrates another and gains an advantage to himself.

Foil'ing, n. [Fr. foulles.] The mark or trace left on the grass by a deer that has recently passed.

(Arch.) Same as Foil, q. v.

Foil'ingly, adv. [Fr. foulne, an eel-spear.] In a push-

Foist linguy, were [17]. The sing manner.

Foist, c. a. [Fr. fauser; L. Lat. falsare, to falsify, from fallere, to deceive.] To introduce fallaciously; to insert wrongfully, surreptitiously, or without warrant; to interpolate; to pass off as true.

"Forge law and fold it into some by-pi roll."—Dryden.

Foint—Dryson.

Foint(er, n. A faisifier; a sharper; a deceiver.

Foint(er, n. A faisifier; a sharper; a deceiver.

Foint(er, n. a) town of France, chief town of dep. of same name, on the Ariège, 44 m. 8. of Toulouse, formerly cap, of the old principality of Foint, part of the inheritance of Henry IV., and now forming the dep. Ariège.

Musaf. Leather, iron, &c. Gaston de Foix (q. v.) was a, here. Pop. 5, 272.

Palse Gassian m. the nephew of Louis XII. of France,

Mass. Leather, from we. Command as A. T. R. here. Inp. 5, 172.

Felix, Gast in Dr, the nephew of Louis XII. of France, was born in 1489. He had the command of the army of Italy, and on account of the daring exploits was denominated the Thunderboit of Raly. After performing printigies of valor, he was killed at the battle of Ravenna, in 1512.

Material VII. Count dr. and Viscount de Béarn, was

venne. in 1512

Fells. Garnin III., Count de, and Viscount de Béarn, was born in 1331, and acquired the surname of Phabus. He was handsome, accomplished, and brave, and spent his life in war and the chase. His first service in arms was against the English in 1345. During the revolt known as la Jacquerie he contributed to the rescue of the Dauphin at Meaux. He made war on the count of Armsgnar, and took him prisoner; was for a short time governor of Languedoc; and in 1390 magnificently entertained Charles VI. at his château of Mazères. Gaston was of excessively violent temmer, and probably was tertained Charles VI. at his château of Mazères. Gaston was of exceasively violent temper, and probably was guilty of the murder of his own son. He wrote a book on the pleasures of the chase, of which several editions were published. Died 1390.

Pok'shaany, a frontier-town of Moldavia and Wallachia, 92 m. N. E of Bucharest, divided by the river Milcow into two parts, of which the smallest belongs to Wallachia.

ailachia.

Wallachia

Pold n. [A. S. fald; L. Lat. falda, an enclosure, a fence.]

A pen or enclosure for sheep; a place where a flock of sheep is kept, whether in the field or under shelter.— A flock of sheep; - hence, figuratively, the Church; as

A flock of sheep; — hence, nguratively, the Unurch; as, Christ's fold.

—r. a. To shut up, or confine, as sheep in a fold.

Fold, s. [A. S. feald; Ger. falle, a plait.] The doubling of any flexible substance, as cloth; a plait or plication; a part of such substance, turned, bent, or laid upon other

led in folds of linen, besmeared with gums.

—That which enfolds, envelops, or embraces.

—From the former signification is derived the use of fold, in composition, chiefly with numerals, when it denotes multiplication or increase in a geometrical ratio; as four field. i e., multiplied by four; increasing in a quadratic party and the field.

fourfield, i e., multiplied by four; increasing in a quantitatio.

Fold, r. a. To fiap, or lay in plaits; to double and insert one part in another, as a letter; to lay one part over another; to double, as a piece of cloth. — To double, or lay together, as the arms or hands. — To envelop; to insid; as, "a face folded in sorrow."

—c. a. To close over another of the same kind; as, "the leaves of the shutters fold."

Paldimen. a. Same as Fildage, q. v.

leaves of the shutters fold."
Fold age, a. Same as Filback, q. v.
Fold er, a. One who folds; that which folds especially a flat instrument, similar to a knife, used in folding paper.
Fold mg, p. a. Doubling: that may close over another, or that consists of leaves which may close one over

another; as, folding doors.

a. A doubling; a plication. — The keeping of sheep in

-a. A doubling; a plication. — The keeping of sheep in encloures.

Pold lease, a. Having no fold.

Pold var. (anc. Sussimum.) a walled town of Hungary, or. Tolm, on the slope and summit of a hill, on the right bank of the Danube, 49 m. 8. of Buda.

Foley, John Henn, an eminent Irish sculptor, B. at Dublin, 1818. The most popular of his imaginative works are ino and Bacchus, the Houseless Wanderer, Comus, &c. His status of Seldon was placed in the new pulace of Westminster in 1836, near that of Hampden, considered his masterpiece. In 1836 he completed, in bronze, Lord Hirdings and Charger, for Calcutta, a group so much admired that a requisition, signed by 150 of the

first names in art and literature, was presented to its author, expressing a desire to see its duplicate erected in London, in proof of the capabilities of an English sculptor. One of his last works is Asia, a group of five figures, commissioned by Queen Victoria for the Prince-Consort National Memorial in Hyde Park. D. 1874.

Foliaccours, a. (Fr. foliacce: Lat. foliaccus, from foliam, a leaf.] (Bot.) Leaf-like, i. e., thin, membranous, and green, or bearing leaves.

Foliage, m. [Fr. feuillage, from feuille, Lat. foliam, a leaf.] Leaves in general; a collection of leaves as arranged in nature; as, a tree of splendid foliage.—A cluster of leaves, flowers, and branches.

(Arsh. and Sculp.) A group of plants and flowers so arranged as to form architectural or sculptural ornaments; as in friezes, panels, architraves, &c., and also in the capitals of the Corinthian and Composite orders, in Gothic capitals, finials, crockets, &c.

Foliage, v. a. To form into the representation of leaves; to furnish with, or work in imitation of leaves.

FOLK

Foliar, a. (Bot.) Consisting of, or pertaining to leaves:

Fo'liate, a. (Bot.) Consisting of, or pertaining to leaves; as, foliate appendages.

Fo'liate, v. a. To cover with a thin coating of tin and quicksilver; as, to foliate a mirror.

Fo'liate, a. [Lat. foliatus, leaved, leafy, from folium, a leaf.] (Bot.) Furnished with leaves; leafy; as, a foliate

Examples occur in the massive massive skin.

Foliated, p. a. (Bot.) Furnished with leaves: leafy.

Having projections similar to leaves; as, a foliated shell.

Spread, or covered with a thin plate, or foil.— Consisting of plates, or thin layers; lamellar; being in lamings or leaves.

(Zoll. and Min.) Furnished with leaves; leaved.

(Arch.) Adorned with trefoils, cinquefoils, &c.

Foliating, n. The act of covering the backs of looking-glasses with a thin coat of tin and quicksilver; foliation.

\*\*To nursue as an enemy; to go in chase of; to chase.—

To nursue as an enemy; to go in chase of; to chase.—

To nursue as an enemy; to go in chase of; to chase.—

The leading of plants; verration; the disposition of the nascent leaves within the leaf-bud.

The act of beating a metal into a thin plats, leaf, or foll. The spreading of tin and quicksilver over the back side of a mirror.

of a mirror.

(Geol.) One of those structural phenomena of rocks, the origin of which is obscure, but which are so large, and ranges owiely, that they must belong to the action of some important law. Gneiss, hornblendic schist, mica schist, and even porphyries and lassit, are often thus foliated, separating into plates of definite thickness.

The state or condition of being beaten into fail

into foil.

into foil.
Foliar, n. Gold-beater's leaf.
Foliar'erouss, a. [Lat. folium, a leaf, and ferre, to bear.]
Producing leaves.
Foliarno, (folen'yo.) a walled town of Central Italy,
prov. Forugia, in the Val Spoletano, and on the Flaminian Way, 20 miles E. of Perugia, and 4 N. by w. of
Spoleto. Manf. Woollens, silks, parchment, wax, &c.

ian Way, 20 mires c.b. of a transported.

Spoleto. Manf. Woollens, silks, parchment, wax, &c. Ipp. 11,657.

Fo'lio, n. [Abl. of fidium, a leaf.] A leaf of a book. — A whole sheet of paper folded into two leaves. — A book of the largest size, formed by sheets of paper once doubled. A page, or rather both the right- and left-hand pages of an account-book, expressed by the same figure.

(Law.) A certain number of words specified by statute as a fidio, without reference to the paper on which they are written. In N. York they are fixed at one hundred.

— Pertaining to, or formed of, sheets of paper folded but once; of the largest size; as, a book made of sheets but once folded is called a folio volume.

Fo'liolate, a. (Bot.) Of, or belonging to, leaflets.

Fo'liolate, a. [Bot.] Of, or belonging to, leaflets.

Fo'liolate, a. [and.] (Bot.) One of the single leaves, which, taken together, make up a compound leaf; a leaflet.

Fo'liolum, n. [Lat.] A leaflet borne upon the axis of a leaf.

a leuf.

Folio-mort., a. [Fr. feuille-morte; Lat. folium mortuum, a dead leaf.] Of the color of a faded leaf; of a darkyellow color.

Foliose, a. (Bot.) Abounding in leaves; leafy.

Folios'ity, n. The ponderousness or size of a volume;
voluminousness.

"He does not shoot into German foliosity."—De Quincey.

Ecology a. (Bot.) Serve as Foliosity."—De Quincey.

voluminousues.

"He does not shoot into German followity."—De Quincey.

Fo'llous, a. (Bot.) Same as Folloss, q. v.
—Like a leaf; thin; unsubstantial.

Folks, (főks.) n. (A.8. folc; Ger. rolk; allied to Lat. vulgus, Gr. ochlas, a crowd.) People in general, or any part of them, without distinction; persons; certain people discriminated from others; as "old folks and young folks."—Generally used in the plural.

Folk -(Bore, n. (Ger. rolk, people, and labre, instruction]

Legends; rural tales; superstitions. This term was first employed by W. J. Thomas, in 1846, to designate what was then becoming a subject of wide interest, that of ancient customs, superstitions, beliefs, traditions, and popular song and fiction, as landed down verbally through many generations by the common people. Folklore, indeed, had been gathered by writers at intervals from ancient Greece downward, and various collections of it had been made in the 18th and early 19th century, the study of it gradually becoming widely extended, and embracing the popular lore of peoples in all parts of the earth. First in importance among the earlier collections is that made by the brothers Grimm, the Kinder and Hass Mürches (1812-14), which swept the field of German household tales. Grimm's Deutsche Mythologie appeared in 1835, and gave the inspiration to numbers of investivators of the prolific field of Teutonic nonular appeared in 1835, and gave the inspiration to numbers of investigators of the prolific field of Teutonic popular lore. Others pursued similar courses of study in all the

countries of Europe, gradually accumulating a vast store of material, and research has since been extended to cover the local fiction, customs, and beliefs of all parts of the earth, including those of savage and barbarous peoples. This study has given rise to an extended literature, to folk-lore journals, and to societies, of which we may name here the "American Folk-lore Society," founded at Cambridge, Mass., in 1888, its purpose being to collect the fast vanishing remains of folk-lore in America. Similar societies exist elsewhere, and an immense addition has been made to our knowledge of the primitive ideas of mankind.

Folk, in Ohio, a P. O. of Harrison county.

Folkendome (folk-dos), a fortified seaport town of England, co. Kent, in hundred of same name, 62 m. S. E. by E. of London, and 7 W. by S. of Dover. It possesses a spacious harbor and noble pier whence the tidal steamers sail twice a day to Boulogne on the French coast. Pop. (1896) \$2,750.

Folliele, n. [Lat. foliculus, dim. of foliis, a leathern

Folliele, n. [Lat. foliculus, dim. of follis, a leathern sack.] (Anat.) A minute gland, consisting merely of a bollow vascular membrane and an excretory duct; hence the term mucous and sebaceous follicles.

the term nucous and sebaceous follicies.

(Bot.) A superior one-celled, one-or many-seeded fruit, dehiscing by the ventral suture only; and consequently one-valved. By the latter character it is known at once from the legume, which opens by two sutures, and is two-valved; in other respects the two fruits are alike. Examples occur in the marsh-marigold.

Folliciuslar, a. Like, pertaining to, or consisting of folliciuslars.

"What could loo," "What could loo,"

To pursue, as an enemy; to go in chase of; to chase.—
To accompany; to be of the same company; to attend for any purpose.— To succeed in order of time; to come after; to result from, as an effect from a cause, or as an inference or deduction.— To pursue with the eye; to initiate; to copy.— To embrace; to adopt and maintain; to elvey; to observe; to practise.—To seek or pursue after; to endeavor to obtain; to use; to be occupied with; to endeavor to obtain; to use; to be occupied with; to make the chief business; as, "follow peace with all men." (Heb. xii. 14.)—To adhere to: to side with; to honor; to worship; to serve; to be led or guided by; as, "follow what I approve." (Millon.)—To keep the mind fixed upon, as an argument, speech, or piece of music.—To attend upon closely, as a profession or trade.—v. m. To come after another; to attend; to accompany; to be posterier in time; to be consequential, as effect to cause; to ensue; to result, as an inference. "Great mischiefs cannot but follow."
Follower, m. One who comes, goes, or moves after another in the same course; an imitator; a copier; one who obeys and worships: one who embraces the same existent, an adherent a discipler an attendant; a re-

who obeys and worships: one who embraces the same system; an adherent; a disciple; an attendant; a re-tainer; a lover.

A sheet of parchment added to another sheet, as in an in-

(Mach.) A part of a machine that receives motion from another.

Following, p. a. Being next after; succeeding; sub-

Following, p. d. Being next site, section, adherents, or dependants.
Following, n. A company or crowd of retainers, adherents, or dependants.
Folly, n. [Fr. folic, from fou, fol, foolish, mad.] Weakness of intellect; imbecility of mind; want of understanding.—Sin; scandalous crime; criminal weakness; deprayity of mind. "When majesty to folly falls."—Shaks.

—A weak or absurd act not highly criminal; an imprudent course of conduct.

Follows. in Culifornia, a post-village of Sacramento

dent course of conduct.

Fol'some, in Culifornia, a post-village of Sacramento co, on the American river, about 22 m. E. N. E. of Sacramento. Also called Folson Cirx.

Fol'somdale, in N. Fork, a post-vill. of Wyoming co.

Fo'mal-haut, n. (Astron.) A star of the first magnitude, in Piecis Australis.

in riscis Australis. Pr. fomenter; L. Lat. fomentary; from fomentary, v. a. [Fr. fomenter; L. Lat. fomentary; from formentum, forimentum, a warm application, from forevet, to warm.] To apply warm lotions to; to bathe with warm, medicated liquors. — To encourage; to abet; to cherish and promote by excitements (in a bad sense); as, "to foment ill humors."

as, "to foment ill humors."

Fomenta tion, n. [L. Lat. fomentatio.] Excitation; instigation; encouragement.

(Med.) Act of applying warm or medicated liquors to any purt of the body by means of fiannels.—The lotion applied, or to be applied to a diseased part.

Foment'er, n. One who encourages or instigates.

Fomd, a. (O. Eng. foune, to be silly, stupid, or foolish; Icel. fana, to play the fool.] Foolishy tender and loving; doting; weakly indulgent; as, "I ma foolish fond wife." (Addison.)—Much pleased: loving ardently: delighted with; rein's highly; as, "Cicero was perhaps too fond of fame." Dryden.

Fon'da, in New York, a post-village, cap. of Montgomery co., on the Mohawk River, abt. 40 m. W.N.W. of Albany.

ery co., on the sitting and the state of the

Digitized by GOOGLE

Fond du Lac, in Wisconsin, a S.E. central co.; area, about 720 sq. m. Ricers. Milwaukee, Rock and Fond du Lac rivers. A part of Lake Winnelago extends into the N. part. Surface, generally level; soil, fertile. Osp. Fond du Lac. Pop. (1885) 47,486.

A thriving city, cap. of the above co., at the S. extremity of Winnelago lake, about 70 m. N.N.W. of Milwaukee. It has an important trade in grain, provisions and timler. Pop. (1895) 13,051.

It has an important trade in grain, provinces and timber. Pop. (1895) 13,061.

Fom'die, v. a. [From fond.] To dote on; to treat with great indulgence or tenderness; to carress.

Fon'dier, n. One who fondles or carress.

Fond'ling, s. A person or thing fundled or carressed; as, 'fondlings are in danger of being made fools."

as. 'Jonatings are in danger of being made fools." Fond'ly, ale. Weakly: imprudently: with indiscreet affection; with great or extreme tenderaces. Fond ineas. "A Weakness; want of sense or judgment; foolishness — Tender interest; attachment; affection; love; strong inclination, or propensity; strong appetite, or relief.

or reiss.

Fondiss. (fon'ds.) n. [Fr. fonds., pp. of fonder, to soften or blend, from Lat. funders, to cast, to found.] (Mans.).

A term applied to that kind of printing of calico, paper-bangings, &c., in which the colors are blended into each other.

Font, n. [Lat. fons, a fountain; Fr. fond. See Fourr.]
A fountain; a source; a spring.

—A large basin or stone vessel, in which water is contained for baptizing children or adults at the church: as, "the presenting of children at the holy font is by their god-

(Eccl. Hist.) A stone vessel in the form of a large bowl or basin, resting on a pelestal, and used for the recetion of water required in the administration of the se or basin, resting on a pelestal, and used for the reception of water required in the administration of the sacrament of baptism. The pedestal is perforated to receive a pipe, by which the consecrated water may be carried off at the conclusion of the ceremony. The proper position for the font is at the west end of the church, operation for the principal porch or entrance, which is to be found most frequently on the south side of the nave in parish churches, though in some instances it is attacted on the north. Buptism was administered in the early churches in a part that was separated from the nave for that special purpose by a party-wall or screen, or in a building that was entirely distinct from the church itself. These were called baptisteries (see Bartisers), and contained a marble basin of great size in the centre, in which the candidate for baptism was subspected to total immersion. Subsequently, when this practice, which must have been attended with considerable to be baptized with a few drops of water only, the four was introduced to take the place of the large laver of the baptistery, although it was still sufficiently large to damit of the total immersion of an infant, should this be desired by its parents. It was not then so necessary to have a distinct building in which the four might be be desired by its parents. It was not then so necessar to have a distinct building in which the font might b placed, or to have a portion of the church separated from the rest for its reception; and it was therefore put in the body of the building, at the lower end of the nave. Examples occur, however, in some of the cathedrals and old churches, in which the font is placed in a baptistery divided from the body of the building; and in many of

structures it has been placed in an inclosure formed by low walls, or in a chamber especially de-signed and constructed for it in the basement of the belfry tower. The fonts that were placed in churches built in the early Norman style were gen-erally circular or square, supported on a short but massive pedestal, cylindri-cal in form. In some ex-amples of square fonts, the lower corners of the block are cut away in such a manuer that the faces of the sides assume the form of a semicircle. The bowl itself, and sometimes the atem, was often adorned with sculptured figures, scroll-work, or interlaced fret-work. The fonts of the three private of digitals. lower corners of the block the three periods of Gothic architecture are more frequently octagonal in form, and more richly carved with figures and emblems placed in sunken munels or placed in sunken panels or niches, and the angles of the pedestal are adorned with buttresses. They are also generally raised on a platform, formed of two or plations, formed of two or three steps. Those of the Perpendicular, or third Pointed style, were gener-ally surmounted by a lofty octagonal canopy in the form of a spire (Fig. 1043), which was formed of wood, and magnificently carved and embellished with

the modern ecclesisatical



P a. 1043. - FORT. (From Cunterbury.)

crockets at the angles, and a rich finial at the summit.

This custom of covering fonts originated about 1250, in an order that was issued to the clergy to provide covers for these vessels, which were to be kept locked. In a few churches the fonts are made of leads cast in a mould; many of these are covered with figures in bas-relief. They are supposed to have been executed by workmen of no ordinary skill about the beginning of the 12th century.

of no ordinary skill about the beginning of the 12th century.

Font, n. [Fr. fonte, from fondre; Lat. fundere, to pour, melt, or cast.] (Print.) A complete assortment of printing-types, including points, accents, &c., of one size, consisting usually of 100,000 characters.

Fontaime, Jean de L. A. See La Fontaine.

Fontaime-bleau, fontain-blö,) a town of France, dep. Selne-st-Marne. cap. arrond. near the Seine, in the forest of the same name, 32 m. 8.8. E. of Paris, and 8.8 by K. of Melun. Manuf. Porcelain. F. owes its celebrity, and indeed origin, to its palace, or château. a favorite residence of the French monarchs. This is a vast and superb pile, in fact, rather a collection of palaces of different architectural periods, than a single edifice. Saracenic, Tuson, and Greek orders are intermixed and interspersed with that of the Renaissance, and with the most bizarre and dissimilar ornamentation; yet, upon the whole, the structure has a striking air of grandeur and majesty. It is surrounded by magnificent gardens, and lies in the Forest of Fontainebleau, a finely-wooded tract of 34,200 acres, intersected by the Seine, and presenting a very varied and picturesque surface. The château of F. has been the scene of many historical events: Philip IV., Henry III., and Louis XIII. were born in it: and the first-named monarch died there. It was visited by Peter the Ureat; Louis XV. espoused the daughter of Stanislaus, kiny of Poland, in this palace; Pope Pius VII. was confined within its walls for 18 months; and it is intimately connected with the history of Napoleou. It was comparatively neglected by Louis XVIII. and Charles X; but Louis XVIII per estored it rope Pius VII. was commed within its wais for 16 months; and it is intimately connected with the history of Napoleou. It was comparatively neglected by Louis XVIII. and Charles X.; but Louis Philippe restored it to somewhat of its ancient grandeur. In 1837 the nuptials of the Duc d'Orleans were celebrated here with great pomp. Under Napoleon III. the palace has been still more enlarged and embediished, and become the scene of luxurious autumnal fêtes, rivalling those of the days of Louis XIV. Pop. 13,123.

Fon 18a1, a. Pertaining to a fountain, source, or origin.

Fon 18a1, a. Pertaining to a fountain, source, or origin.

Fon 18a1, a. Pertaining to a fountain, source, or origin.

Fon 18a1, a. Peter's, a work then deemed impracticable. D. at Naples, 1607.

Fon 18a1, a. [Fr. fontanelle, a meeting of the seams of the skull; dimin. of fontaine, a fountain. L. Lat. fonta, a fountain.] (Anat.) The interstice or mould, as it is often called, which exists at birth between the frontal and parletal bones: it is closed by bony matter about the called of the third year.

It is often called, which exists at birth between the frontal and parietal iones: it is closed by bony matter about the end of the third year.

Fontanelle', in Imma, a post-village of Adair co., abt. 50 miles W.S.W. of Des Moines.

Fontenelle', in Nebradio, a post-village of Washington co., on the Elkhorn river, about 35 miles N.W. of Omaha.

Omaha.

Fontarabia, (properly Fuenterrabia,) a fortified frontier and semport-town of Spain, in Biscay, prov. Guipuzcou, on a small neck of land, on the left bank of the Bidasson at its mouth, 20 m. W. by 8. of Bayonne. The town used to be reckoned one of the keys of the kingdom, but its walls were levelled by the British troops in 1813. Ind. Fisheries. F. was taken, in 1521, by Francis I. of France; in 1719, by the Duke of Berwick.

Francis I. of France; in 1719, by the Duke of Berwick. 
Phys. 8,370.

Fon'temay, or Fontenay-Le-Comte, a town of France, 
dep. La Vendée, cap. arrond. on the Vendée, 42 m. S. E. 
of Napoleon-Vendée. Manuf. Liuon and woollen cloths, 
leather. &c. Phys. 8,768.

Fontenelle', Brayard Le Bovier De, a French author 
of great and varied talents, B. at Rouen, 1657, was a 
nephew of Corueille. He studied the law at the request 
of his fitter who was an advented. his corn deviced 
his fitter who was an advented. of great aim varied taients, E. at Rouen, tod, was as nephew of Cornellie. He studied the law at the request of his father, who was an advocate; but soon devoted himself exclusively to literature. At the outset of his career he met with little encouragement in his poems and dramas, but on the appearance of his Dialogues of the Drad, and his Conversations on the Piurality of Worlds, his fame was at once fully established. In 1899 he was made socretary of the Academy of Sciences, which post he held forty-two years, and of the proceedings of which body he published a volume annually. He continued to write on general subjects, agreeably combining a taste for the belies-lettres with more abstrues atudies, with little intermission, till he had almost reached the patriarchal age of 100. He died in 1757. Fom'temoy, a village of Belgium, prov. Hainault, 6 m. S.E. of Tournay, celebrated for the victorious battle fought there, April 30th, 1745, between the allied English, Dutch, and Hamoverians, commanded by the Duke of Cumberland, and the French under the Marshal de Saxe, in which the allies were defented.

Saze, in which the allies were defeated.

Fontevrault, (fon'te-rrol.) (Eccl. Hist.) A religious order connected with the Benedictines, which arose in the 12th century, and was named after its first monastery. Its founder was Robert d'Arbrissel, and it comprised both monks and nuns; but had this peculiarity, that the latter had the preëminence, and the whole were subjected to an abbess, in imitation, as was said, of the founder of Christ's commendation of the apostle John to the matronage of the Virgin. This order had several houses in England, and at the time of the French revolution they had about sixty houses in France. lution they had about sixty houses in France.

Foo'choo-foo, Foo-chow-foo, or Fou-rengou, a city of China, cap. of prov. Foh-kien: Lat. 26° 12′ 24″ N., Lon. 119° 30′ E. It is one of the 5 ports opened for

ommerce on the Min River, 25 m. from its mouth is encompased by hills, and is the residence of a viceror, and several foreign consuls. It is handsome and web-built, and ships large exports of tes to foreign ports Manaf. Cotton goods, porcelain, &c. Pop. Estim. at 1000 box 1.000.000

1,000,000.

That which is fed upon; whatever is eaten by animals for nourishment; whatever supplies nutriment to plants; aliment; nutriment; sustenance; victuals; provisions: meat.—Anything that augments, sustains, support; keeps up, or nourishes.

" Music, manly food."

keeps up, or nourishes.

"Musio, manly food."— Shaks.

Food and Drink. (Physiol.) Those solid and liquid substances which are used either for sustaining animal life or for the purpose of reproducing the ever-wasting tissues and fluids of animal bodies. Of the elementary bodies, only a small proportion enters into the constitution of animals; and the substances included in this small proportion are the only ones required to be present in food and drink. Out of about sixty elements, only oxygen, hydrogen, nitrogen, carbon, sulphur, chlorine, phosphorus, sodium, potassiam, calcium, magnesium, iron, and fluorine are absolutely necessary. Albumen, iron, and fluorine are absolutely necessary. Albumen, fibrine, and caseine, which occur both in animals and vegetables, together with vegetable gluten, furnish oxygen, hydrogen, nitrogen, and carbon. Animal flesh, eggs, milk, corn, and various other vegetable productions contain one or more of these principles. Food containing a large proportion either of sugar, starch, or organic acids, introduces carbon, hydrogen, and oxygen largely into the system. Oleaginous alimentary substances contain carbon, with a little oxygen and bydrogen. This class of substances includes fat, suet, butter, sily seeds, blood, and bones used as food supply phosphorus to the system; the flesh of flather is particularly rich in phosphorus, and in the shape of phosphates it exists in the juices of many editib regetables. Sulphur is introduced into the system from the fibriue of flesh, from allumen, from the caseine of milk, gluten, &c. Chlorine and sodium exist in nearly every variety of animal food, albumen, from the caseine of milk, gluten, &c. Chlorine and sodium exist in nearly every variety of animal food, and, in the shape of common sait, are taken sequentely with nearly all kinds of food. Potassium is found in various kinds of food, both animal and vegetable, in milk, in the juice of flesh, and in nearly all inland plants. Children is to convenient the convenient of the plants. Culcium is not only obtained from animal and vegetable food, but also from drinking-water, which usually con-tains sulphate and carbonate of lime in solution. Magnesium is generally found along with calcium; and traces of fluorine have been observed in milk, blood, &c. These simple bodies, however, are not capable of being directly assimilated and converted into tissue; they directly assimilated and converted into tissue: they must be previously in combination; and their assimilation depends upon certain chemical decompositions and physiological processes. The number of elementary substances in combination differs: thus, water contains two elements—oxygen and hydrogen; sugar, starch, fat, &c. contain three: caseine of milk contains five; and albumen and fibrine contain six. Baron Liebig, who has given much attention to this subject, has divided all kinds of food into two classes—those substances which do contain nitrogen, and those which do not. The first class, which is sometimes called sitrogenous or albuminous, is useful in forming blood, firsh, &c.; it is, in fact, nutritious food. The second, or non-nitrogenous class, assists the respiratory organs. Thus, in very cold climates, where more exercise is required in order to sustain the vital heat, more oxygen is respired, and consequently mates, where more exercise is required in order to sustain the vital heat, more oxygen is respired, and consequently more carbon is required in the food. Hence, it will be observed that in such countries as Siberia, Lapland, &c., large quantities of non-nitrogenous substances, such as fat, oil, &c., are used by the inhabitants as food; in the temperate zone a moderate mixture of nitrogenous and also in countries classed as semi-tropical, fruits and vegetables form the principal food. Although the theories of Liebig have not remained undisputed, his works on the subject are considered of very high value. (See Liebig's Researches on the Chemistry of Food.) In the preparation of food for eating, much depends upon the way in which it is cooked. As all the nutritious jnices of meat are soluble in cold water, it is necessary, when of meat are soluble in cold water, it is necessary, when preparing bolied food, to place the meat in boiling water in the first place. This coagulates the albun en on the surface, thus forming a crust or shell, which prevents the escape of the nutritious juices. If, however, the object is to make soup, the meat should be put into cold water, and gradually raised to the boiling-point. In rossting and broiling meat, the first application of heat should be vigorous and rapid, in order to coagulate the albumen and form a crust, and so retain the jnices, as in boiling. In the process of rossting, the cellular tissue is converted into soluble gelatine, and the fat is melted out of its component cells. Baked meat is less digratible than either rosat or boiled, as it contains more empyreumatic oil. Frying is the most unwholesome form of than either roast or boiled, as it contains more empyreumatic oil. Frying is the most unwholesome form of cooking, as it is mostly performed with the assistance of heated oil or fat, which is decomposed during the operation. Smoking, pickling, and saiting meat not only harden the animal textures, but, in the case of saiting, the food is rendered less nutritious, as a large quantity of albumen, soluble phosphates, lactic acid, poissh, creatine, and creatinine are abstracted in the brine. Very few vegetables are roasted; they are, as a general rule, boiled. Those which contain saccharine matter, such as carrots, beet-roots, parsuips, &c., are best cooked by steam, as boiling water dissolves out a large quantity of their nutritious ingredients. Vegetables, however, which contain much starch, as potatoes, should be boiled. By boiling, the granules of the starch are

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FOOT

To deceive; to impose upon; we make, ..., See Foil.] A compound of gooseberries scalded and crushed, with cream; — commonly called gooseberry-foot riffes; absurdity; as, "fotery, sir, doth walk about the orb like the sun." (Shake.) — An act of folly or weakness; an object of folly; as, "it is mere findery, to multiply distinct particulars." (Watts.) "To believe in forderies." Ruleigh.

Fool'hardihood, n. Same as foolhardiness.
Fool'hardily, adv. With foolhardiness.
Fool'hardiness, n. Mad rashness; courage without

Fool'hardy, a. Daring without judgment; madly rash and bold; foolishly adventurous; precipitate; headlong.

long

Fool'ing, n. The act of playing the fool.

Fool'inh, a. Void of understanding or sound judgment;
weak in intellect; unwise; imprudent; acting without
discretion in particular things. Thou foolish woman, seest thou not our mourning?"- Bedras iv. 11

Proceeding from or marked by folly; silly: vain; tri-fling; ridiculous; despicable; as, "to make a foolish figure." (Prior.)—Wicked; proceeding from depravity;

sintu.
Fool'ishly, adr. Unwisely; weakly; absurdly; wickedly.
Fool'ishness. n. Folly; lack of wisdom, understanding, or good judgment. — A foolish practice; a deviation from the right.

bolishness is properly a man's deviation from right reas

Fools'-cap, n. The pointed cap worn anciently by professional jesters, and now by the clown in a circus.

A kind of paper next to, ann arger than post. (So called from the water-mark of a fool's cap used anciently by aper-makers.)

Ols. (Feast of.) (*Hist.*) The name of a festival regu

larly celebrated, with the most abourd ceremonies, both by clergy and laity in several countries in Europe, from the 5th down to the 16th century. It is said to have been introduced in imitation of the Roman Saturnalia, and its celebration took place about the same time, the great day being New-Year's day; but the ceremonies were often continued from Christmas to the last Sunday of Epiphany. A first only the boys of the choir and young sacristans played the principal part in them; but afterwards all the frieir servants of the church, and even laymen, engaged in them; while the bishops and other clergy formed part of the audience. A Bishop of Unreason was appointed, the forms and ceremonies of Unreason was appointed, the forms and ceremonies of the church were travestied, indecent songs were sung, dancing was carried on, and all manner of fooleries enacted. The ass often played an important part in the proceedings, being sometimes led towards the altar and having hymns sung in its honor. The Feast of Fools was condemned by several popes and bisinops in the 15th century, and the Council of Basle, in 1435, expressed its detestation of this and several other festivals; but it continued to be observed in many places down to the time of the Reformation.

continued to be observed in many places down to the time of the Reformation.

Pool's Parsley, n. (Bot.) Athusia cynapium, the only species of the genus Athusia, order Apiaces, grows wild in some places in the N. States. It somewhat resembles pursley in its foliage and general appearance, so that was the present a serious periods.

sembles parses in the A. States. It somewhat resembles parsley in its foliage and general appearance, so that serious accidents may occur, as is frequently the case in Europe, from its being mistaken for that herb, it being a poisonous plant, similar to hemlock in its properties. When in flower, it is readily known from every other plant by its umbels wanting general involuce, and having partial involucers of three slender leaves hanging down on one side.

FOOG, n.; pl. Fert. [A. S. fot, pl. fet; Ger. fuss; allied to Lat. pag. Gr. pous.] (Anal.) That part of the lower extremity below the leg upon which we stand and walk. It is composed of three series or groups of borse:—the tursal, or hindermost; the metatarsal, which occupy the middle portion; and the phalanges, which go to form the toes. The tarsal bones are seven in number. Above, they are connected with the tibia and fibula bones of the leg, and below form the heel and the hinder part of the instep. They are (Fig. 1044), the catragalus, which articulates with the tibia and fibula: the os calcus, or bone of the heel; the as maxiculare, or scaphold bone, which articulates with the tible and fibula: the occalcis, or bone of the heel; the as navicular, or scaphoid bone, on the inner side of the foot, articulating with the astragalus; the os cuboides, on the outer side of the foot, articulating with the os calcis, the three cuneiform or wedge-shaped bones (the internal, middle, and external,) in front of the scaphoid bone, near the middle of the foot. The metatarsal bones are five in number, and belong to the class of long bones. They are connected posteriorly with the tarsal, and anteriorly with the phalangeal bones. One is attached to each of the cuneiform bones, and two to the os cuboides; and they diverge slightly outwards as they proceed forward. Their anterior ends form the balls of the toes. The first metarsal bone is the shortest and strongest, while the second anterior ends form the balls of the toes. The first meta-tarsal bone is the shortest and strongest, while the second is the largest,—the others all decreasing in length according to their distance from it. These bones form the anterior portion of the instep. The phalanges, or bones of the toes, are fourteen in number, three to each toe, except the great one, which has only two. The upper ones, which are the longest and largest, are named the metatarsal; the next, the middle; and the most an-terior, the ungual balanges. The bones of the foot, more particularly those that compose the tarsus and metatarsus, are firmly connected together, so that they are not liable to be displaced; and those parts where they articulate with one another being covered with a tolerably thick layer of highly elastic cartilage, they

possess a considerable degree of elasticity. They are bound together in various directions, by a number of They are

FOOT

ligaments, one of the prinligaments, one of the prin-cipal of which is the plan-tar ligament, which is of great strength, and passes through the un-der surface of the heelbone near its extremity, forward to the ends of the metatarsal bones. The The movements of the foot, which are permitted by the connecting ligaments, are effected by a variety of muscles. The principal movements are, (1) that at the ankle, formed by the tibia and fibula with the astragalus, by which the foot is bent and straightened; (2) between the as-tragelus and os calcis, by which the foot is rolled inwards and outwards; (3) between the first and second range of tarsal bones. ond range of tarsat tonies, admitting of a very slight motion, by which the arch of the foot may be some-what increased or dimin-ished. Besides these there are the less complicated movements of the metatar-sal and phalangeal bones. The foot, naturally a leauso much interfered with in civilized life as to be de-prived of much of its beauty, and even of its utility. Its movements are impeded by its being confined in tight-fitting boots; while, in place of the boots being conformed to the shape of the feet, the feet are made to conform to the shape of the boots. The consequences of



Fig. 1014.—THE DORSAL SUR-

1. the astragalus, its upper ar-1. the astragalus, its upper articular surface; 2, its anterior extremity, which articulates with (4) the scaphold bone; 3, the occasion, or heel-bone; 4, the scaphold bone; 5, the luteral canelforms bone; 6, the niddle cunieform bone; 6, the cubuld leue; 9, the metatarnal bones of the first and second tone; 10, 11, the first and second tone; 10, 11, the first and second, and third phalanges of the second, and third phalanges of the second, and the second tone.

are corns, bunions, cold feet, and a number of other evils, from which so many feet, and a number of other evils, from which so many suffer in the present day. Attention has been, some years ago, called to this subject by Professor Meyer, of Zurich, who published a pamphlet, entitled Why the shoe pinches; a contribution to applied Anot my, which has been translated into English, and is well worth a

(Pros.) In Greek and Latin poetry, a metre, or meas-(1702.) In Greek and Latin poetry, a metre, or measure, composed of a certain number of long and short syllables. Some are dissyllable, consisting of two feet, as the spondee, iambus, trochee; and some trisyllable, as the dactyl, anapest, tribrach. These are what are called simple feet. There are others, consisting of four, five, or six syllables, which are reckoned double or compound feet, but which are commonly resolved into single feet. A verse is frequently named from the number of feet which it contains, or from the foot which prevails in it; as, brameer, containing axis feet; neglt prevails.

of feet which it contains, or from the foot which prevails in it; as, hrzameter, containing six feet; pentumbler, containing five; dadyllic, from the dactyl being the prevailing foot; iambic, the iambus.

(Arith.) A measure of length, consisting of 12 inches, or 36 barleycome laid end to end. It also expresses surface and solidity. A square foot is the same measure both in length and breasth, containing 12 × 12 = 144 square or superficial inches. A cubic or solid foot is the same measure in all directions, or 12 inches long, bread and deep, containing 12 × 12 = 144 × 12 = 1728 cubic inches to the solid or cubic foot. — As this term is employed in almost all languages as a linear measure, it has doubtless been derived from the length of the human foot. Though the denomination is the same, the measure itself varies considerably in different countries.

foot. Though the denomination is the same, the measure itself varies considerably in different countries. (Mus.) A term made use of in the same way as in poetry, denoting a short melodic figure of notes with only one acceut. Foot is also now beginning to be used in speaking of the pitch of sounds. The Germans have always used the word Fuszon in representing the pitch of the different stops of an organ, such as Principal 16 F., 8 F., or 4 F., &c., which practice is now being introduced into English organs, and is found very useful to organists. The pitch of the stop is fixed according to the length of the lowest C pipe.

(Mil.) Soldiers who march and fight on foot: infantry:

(Mil.) Soldiers who march and fight on foot : infantry : (ant.) sources who march and nght on loot; intantry; as, horse and foot. In this sense it has no plural.

Anything bearing some resemblance to the foot of an animal in shape or office; as, the foot of a stocking.

The lower end of anything: the bottom; the lawe; the foundation; the end; as, the foot of a mountain, the foot of a class, the foot of an account.

Condition; state; footing.

"We are not on the same foot with our fellow-subjects of England."-Swift.

on jook, walking: pedal locomotion. — To set on foot, to start: to originate. — A cubic foot, a volume equal to that of a cube having its edges 12 inches in length. — A square foot, an area equal to that of a square having sides 12 inches in length.

Foot, v. n. To tread; to dance to measure or music; to skip. — To walk. On foot, walking: pedal locomotion.

" Have open eye, for thieves do foot by night."—Shuks

ruptured and partially dissolved, and any volatile oils which may be present are exp.led. All kinds of flesh are not equal with regard to their nutritive value. Veal, for instance, is totally different from beef. It contains a smaller quantity of the alkalies, and there is 15 per cent. more phosphoric acid than is necessary for the formation of salts; it contains, also, a little of the fibrine of flesh, and proportionately more of the flurine of blood, which is less digrestible than the former. Veal is rich in celatine, which is not nutritives and saldou, contains which is less digrestible than the former. Veal is rich in gelatine, which is not nutritious, and seldom contains any quantity of fat; it also contains very little from In all these points it is the reverse of beef. Hard-boiled eggs have little or no nutritive power: and the same may be said of boiled fish, the soup of which is generally may be said of boiled fish, the soup of which is genorally thrown away. In order to make up the necessary deficiency of nutritive matter in veal, eggs, and fish, vegetables should be taken with them. Celery contains 18 per cent., aslad 24 per cent, and cabbage-oprouts 10 per cent. of their dry weight of saits, sikalies, and alkaline earths. Vegetable food in general contains a large proportion of iron. In the human body iron is present in the blood, the bile, and other constituents. The presence of iron determines the color of the hair: and persons of a portion of iron. In the human body iron is present in the blood, the bile, and other constituents. The presence of iron determines the color of the hair: and persons of a sanguine temperament have more iron in their bodies than those of a lymphatic nature. When the blood is deficient in iron, the physician prescribes either iron, steel, or chalybeate waters. The presence of this metal is therefore necessary in food. Prolonged absence from fruits and succulent vegetables brings on scurvy. The alsence of the acids which they contain produces this effect; thus lime-juice is used by sailors with good offect on long voyages. Among the condiments used for flavoring food are mustard, cayenne pepper, black peper, and various spices. They owe their action to the presence of a volatile oil. The volatile oils of fennel, thyme, parsley, anise, caraway, horse-radish, mustard, water-crees, &c. stimulate the system, but do not incorporate themselves. Condiments and sauces (which are smally fluid mixtures of condiments), in time generally weaken the organs which they at first attimulate. The only exceptions are sait and vinegar.—Drinks, for the nost part, are simply liquid food. (See Drink.) They may be distributed the children of the produced of the produce weaken the organs which they at first stimulate. The only exceptions are sait and vinegar.—Drinks. for the most part, are simply liquid food. (See Drink.) They may be divided into the following classes:—1. Mucliaginous, armaceous, or saccharine drinks, such as barley-water, can sucré. Ac. They are a little more nutritive than drinking-water. 2. Aromatic or astringent drinks, such as tea, coffee, chocolate, coroa, &c. They all contain principles which act with a slightly exhibitanting action more the previous avatem: chocolate and coroa contain more than the previous avatem: principles which act with a slightly exhibitrating action upon the nervous system; chocolate and occoa contain oil and starch. 3. Acidulous drinks, such as lemoused, glager-beer, raspberry-vineg.r, &c. They aliay thirst, and form cooling antiscorbutic drinks. 4. Drinks containing griatine and ozmazome, including broths and soups. These, when properly made, ought to contain all the soluble constituents of the substance from which they are prepared. 5. Emulsive or milky drinks, such as animal milk, cocca-nut-milk, almond-milk, &c. Animal milk contains the essential ingredients of food; the others are slightly nutritive. 6. Alcoholic and other others are alightly nutritive. 6. Alcoholic and other intoxicating drinks, including mait liquor or beer, wines and spirits.—See ADULTERATION. Table showing the average quantity of nutritive matter in 1,000 parts of several varieties of animal and veg-ctable food. 015 1 0 ...

Blood215	Carrots 98
Beef 260	
Veal 250	Calibage 73
Mutton 290	Beetroot148
Pork 240	Strawberries100
Brain 200	Pears 160
Chicken 270	Apples 170
Cnd 210	Gooseberries190
Haddock 180	Cherries 250
8ole210	Plums290
Bones 510	Apricots 260
Miik 72	Penches200
White of egg140	Grapes270
Wheat950	Melon 30
Rice 880	Cucumber 25
Barley920	Tamarinds 340
Rye792	Almouds 650
Outs 742	Morels896
Potatues 260	2201013
Pood'Cal - P-46-1	full of food; plenteous; as,
succes (c. Fruitfill);	iun or roou; plenteous; as,

"the fordful earth."—Dryden.
Food less, a. Destitute of provision; barren.
Food, n. [Pr. fou, ful; W. ful, foolish.] One destitute of reason or the common powers of understanding; an

"He thanks his stars he was not born a fool.

A person somewhat deficient in intellect; one who acts absurdly: a simpleton; a silly person; a dolt; a dunce. "Experience keeps a dear school; but fools will learn in near." - Franklin.

-A wicked or deprayed person.

The fool bath said in his heart, there is no God." - Ps. xvi. 10 -A term of indignity and reproach.

"You must first put the fool apon all mankind." — Drydon.
One who counterfeits folly; a buffoon; a king's fool; a - See JESTER In make a

fool of, to disappoint; to defeat; to cause to appear ridiculous.

A foot servaed, an absurd quest or search after what cannot be found: the undertaking what is impossible.

Feel, r. To trifle; to toy; to spend time in idleness or missible. or mirth.

"Is this the time for fooling ?" - Dryden

-t. d. To infatuate; to treat with contempt; to disappoint: to defeat; to frustrate.

"That you are fooled, discarded, and shook off." — Shake.

-e. a. To spurn: to kick.-To tread.

"They featly foot the green."—Fickell.

To add or make a foot; as, to foot a boot or stocking.—To sum up, as the items of an account.

Foot'-ball, n. (Games.) See SECTION II.

Foot'-bath, n. A bathing of the feet; also, the vesse used for the purpose.

used for the purpose.

Foot'-board, s. A support for the feet; the board at the foot of a besistend.

the foot of a besistead.

(Steam Esgine.) Same as Foot-Platz (q. e.).

Foot'-boy, n. A menial; an attendant in livery.

Foot'-cloth, n. A cloth or carpet spread on the grout upon a ceremonious occasion.

—A housing or caparison for a horse.

Foot'ed, p. a. Furnished with a toot, as a stocking.—
Shaped in the foot; as, "Footed like a goat."— Gree.

Foote'ville, or Foot'ville, in Wisconsin, a post-village of Rock co, about 32 m. S. by E. of Madison.

Foot'fall, n. A footstep; a tread of the foot,— A trip or stumble.

or stumble. 'oot'-halt. n. A disease of the trotters incident to sheep. 

a mountain range.

Foot'hold, n. Space for the feet to stand upon; space on which one may tread securely.

Foot'hot, ade. Immediately; directly.

Foot'ing, n. Ground for the foot; that which sustains; firm foundation to stand upon.

"Recry step gained is a setting, and help to the next." Holder.

Support; firm position; root; basis; foundation; place; stable position; permanent settlement.—Tread; step; walk; as, "I hear the footing of a man." (Shals.)— State; condition: settlement; as, to be on equal footing.

—The total sum of a column of figures; the act of adding up such column.—The act of adding, or that which is added as a foot to anything; as, the footing of a stocking.

—pl. (Arch.) The spreading courses at the base or foundation of a wall, by which the weight of the superincumbent mass is distributed over a large area.

To pay footing, to pay a fee on first doing anything, as working at a trade or in a ship.

Footless, a. Destitute of feet.

Footlicker, n. A sycophant; an humble fawner.

Footlight, n. One of the row of lights placed in front of, and on a level with the stage, in a theatre, &c.

Footman, n.; pl. Footman, A soldier that marches and fights on foot.—A menial servant; a runner; a servant in livery. "Every step gained is a focting, and help to the next." Holde

and ughts on loot.—A menial servant; a tunner; a servant in livery.

\*\*Poot'-note, n. (Printing.) A note of explanation or reference at the bottom of a page, ordinarily set in type two or more sizes smaller than that of the text.

\*\*Poot'-pace, n. A pace no faster than a slow walk.—

A landing-place on stairs, where one makes two or three

es on a level before ascending another portion of the

right.

Foot'pad, n. A highwayman or robber on foot.

Foot'-passenger, n. One who passes or travels on foot; upposed to one who travels in a conveyance of any kind.

out'-plate, s. (Mach.) The platform of a locomo-tive engine on which the engineer and fireman attend to their duties, frequently called Foot-BOARD. Foot'-plate, a

Foot'-post, n. travels on foot. A messenger, or mail-carrier, who

Foot'-power, n. Power exerted by the foot.
Foot'-press, n. A press operated by the foot; a

treadle-press, a press operated by the Foot's print, a. The impression of the foot.—(Geol.) See Ichnoton

(Geol.) See Ichrology.

Foot'-rail, s. A bar or rail to support the feet.—A crosspice, near the floor, of a table, chair, or bench.

Foot'-rope, s. (Nowt.) The rope stretching along a yard, upon which men stand when reefing or furling

Foot'-rot, s. (Vet. Surg.) A disease in the feet of cattle and sleep, characterized by an abnormal growth of hoof which becomes cracked or torn, affording lodgment for sand or dirt.

(Bot.) A disease in plants of the orange family which causes the bark of the roots or stem near the the ground to peel off and sometimes kills the trees.

Foot'-rule, n. A rule or measure 12 inches in length.
Foots, n. pl. The lees, dregs, or sediment at the bottom
of a barrel or cask of molasses, &c.

Foot'sscrew, s. A screw attached to the leg of a table or bench, forming a foot for adjusting its length to un-

even surfaces.

even surfaces.

Foot'-sore, a. Having the feet sore or tender from excessive walking or friction of the foot-covering.

Foot'stalk (-stawk) s. (Bot.) A short stem on which a leaf is raised up from a plant; a leaf-stalk; a petiole.

Foot'stall, s. A woman's stirrup.

—(Arch.) The plinth or base of a pillar.

Foot'steep, s. A track; the mark or impression of the foot.—Token; mark; trace; vestige; visible sign of a course pursuel; as, the footsleps of Divine wisdom.—An inclined plane under a minting press.

inclined plane under a printing press.

n. pl. Example; way; course; as, to follow in the footsteps of a predecessor.

Foot'-stool, n. A piece of furniture which supports the feet when one is sitting.
Foot'-stove, n. A stove intended to warm the feet; a

Foot-walve, n. (Much.) The valve in the passage be tween the condenser and air-pump of a steam-engine

opening towards the sir-pump of a steam-engine, opening towards the sir-pump.

Foot'-walling, n. (Naut.) The planking within a ship, below the lower deck.

Foot'way, n. A path for passengers on foot.

Foot'worn, a. Worn by the feet, as a path much

trodden. - Wearied in the feet, as a traveller or way-

Harer.
Foot'y, a. Having foots, sediments, lees, or dregs.
Fop, n. [A word probably made by chance. Cf. Lat.
cappa, a spoiled or worthless fellow; tier. foppen, to jest, to jest, to jest.] A vain man of weak understanding and much ostentation; one whose ambition is to gain admiration by showy dress and affectation of manner; a

miration by showy dress and affectation or manner; a gay, trifling man; a cuxcomb.

Fop'ling, n. A petty fop.

Fop'pery, n. Affectation of show or importance show folly; foolery; vain or idle practice; idle affectation.

pish, a. Vain of dress; finical; dandyish; dressing the extreme of fashion; vain; trifling; affected in manners

Fop pishly, adr. With vain estentation of dress; in a trilling or affected manner.

Fop pishness, n. Vanity and extravagance in dress;

showy vanity.

For, prep. [A. S. for; Ger. für, vor.] Because of.

"With flery eyes sparkling for very wrath."—Shake.
-Against; in opposition to.

"To take medicine for disease."— -In the place of; as equivalent to; instead of.

"Our present lot appears,
For happy, though but ill."—Milto -In exchange of. — In the character of; as, "to be as sured of a thing for a truth." — In advantage of. of a thing for a truth."—In advantage of.
"An ant is a wise creature for itself."—Bacon.
cive to: handed to

"An ant is a wise creature for itself."—Bacon.
Conducive to; beneficial to.— In favor of; as, to work
for one's party.—Leading or inducing to, as a motive.—
With respect or regard to.—On the part of.—Through
a certain distance of space or time. "Some please for
once." (Roscommon.)—In quest of. "To run far back
for arguments." (Tillotson.)—According to; as, "for
sught I know." (Johnson.)—As far; as, to go up the
mountain for one mille.—Notwithstanding.— In recompense of.—In proportion to.

By means of; by interposition of.
"What would men do if it were not for God?"—Tillotson.—
As being.

As being.

"I bear for certain, the gentle York is up."-Shake For, cmj. Bec.vee; on this account that; - properly. for that

, as a prefix to verbs, has usually the force of a negative or privative, denoting before, that is, against or away, aride. In a few cases it is merely intensive, as in forbathe.

in forbathe. For age, n. [Fr. fourrage; L. Lat. feragium, fodder, food.] (Mil.) Hay, oats, corn, barley, grass, clover, and other means of sustensince for horses, brought into camp by troops with that object.

Act of providing food for horses and cattle; search for provisions.

Act of ravaging.

v. n. To collect food for horses and cattle by wandering about and stripping the country; to gather provisions. To feed on spoil.

v. a. To strip of provisions for horses, &c.; to supply with forage or fodder. To ravage.

For'ager, n. One who goes in search of food for hors and cuttle.

and cuttle.

Fora'mem, n.; pl. Foram'ina. [Lat., from forare, to pierce, to bore.] (Anat.) A term applied to certain holes or openings of the human body, more particularly of the skeleton, as the various foramina of the skull. The foramen orde is a passage or communication between the two suricles of the heart in the foctus. Foramin'ifer, a. [Fr. foramin'i. L. L. foraminatus.] Having little holes or perforations.

Foramin'ifer, n. [Lat. foramen, a hole, and ferre, to bear.] (Zoil.) One of the Foraminifera, q. v.

Foraminifera, n. pl. [Lat. foramen, an orifice, from fero, I bear.] (Zoil.) The name given by d'Orsigny to a group of minute organisms having calcareous shells, which are pierced with numerous holes or foramina. The pores are for the protrusion of delicate filaments, by the aid of which locomotion and perhaps nutrition are performed. They belong to the unicellular animals, or Protozoa, and are all marine in distribution. Fresh chambers are added in spiral and other forms, so that they look like minature sea-shells. Recent Foraminifera are beautiful microscopic objects. In the fossil state these tiny shells occur in rocks of all formations; they constitute the greater bulk of the chalk and the tertiary limestones. In the stone of which the buildings in Paris are constructed, the shells of Foraminifera are so numerous that this city may be said to be built of them. The shells of the nummulities, or coinstones, of which the pyramids of Egypt are principally composed, come from an extinct species of F. Euzoon (q. r.), is claimed to be a very ancient F., of gigantic size.

Foraminiferous, a. Pertaining to, or similar to the foraminifers.

Foraminiferous, a. Pertaining to, or similar to

Formminiferous, a. Pertaining to, or similar to the firaminifers.

Formsmuch, omj. In consideration of; because that.
Formsy, n. [Lat. foris, foras, externally, beyond bounds.] A sudden and irregular incursion into the territory of a neighboring clan or shire; — used principally of the ancient border-warfare in Scottand. — Any sudden incursion for purposes of war and booty.

Formy'er, n. One belonging to an expedition for war or plunder.

or plunder, imp. of Forbing, q.v.

Forbade', imp. of Forbing, q.v.

Forbage, (for-bare',) v.n. (imp. forbore, pp. forboren ...)

[A.S. forberan -- for, and beran, to bear.] To

bear off or away; to hold or keep away; to stop; to cease; to hold from proceeding; to pause; to delay; to abstain; to omit; to refrain.

"At this he started, and forbore to awear."—Dryden.
Not out of conscience of the sin, but fear."—Dryden.

To decline; to refuse.

"Whether they will bear, or whether they will forbear." Exck. it 7. e. a. To keep or hold away from; to shun; to abstain from; to omit; to avoid doing. — To spare; to treat with indulgence and patience.

cering one another in love. - Esk. iv. T. To withhold

"Forbear thee from meddling with God."-2 Chron. x xxv. 22.

"Forbear the from meddling with God."—2 Chron. EXT. 22.

Forbear ance, n. The act of shunning, omitting, abstaining, or ceasing from.—Command of temper; restraint of passions; the exercise of patience; long-suffering; lenity; mildness.

Forbear ant, a. Same as Forbearing, q.v.

Forbear ing, p.a. Patient; long-suffering.

Forbear ingly, adv. In a forbearing manner; with forbearnes.

Forbearingly, adv. In a forbearing manner; with forbearence.
Forbea, Duncan, an eminent Scottish judge, was a at Culloden, in 1885; he studied at Paris, Utrecht, and Edinburgh, and rose, in 1737, to the rank of Prisident of the Court of Session, discharging the functions of his high office with zeal, ability, and patriotism. It was mainly owing to his exertions that the rebellion of 1745 was prevented from spreading more widely among the clans; but so ungratefully was he treated by the government, that he was never able to obtain repayment of the various sums he had expended to uphold it. He was the author of Thoughts on Religion, the Culloden Papers, &c. Died 1747.

Died 1747.

Forbess, Ebward, an English naturalist, s. 1815, in the Isle of Man, where his father was a banker. His love of natural history dated from his certicat childhood, and he had accumulated a large stock of knowledge when, in 1832, he went to the university of Edinburgh, to attend the lectures of Prof. Jameson, at that time reputed the first naturalist in the empire. Here he gained great ditinction, and the qualities which he displayed predicted for him a brilliant career. After visiting Norway, Sweden, France, Germany, and other countries, in order to extend his knowledge of natural history, he delivered a course of lectures on his favorite science in Edinburgh in 1839, and in 1840-41 appeared his History of British Starfsher, which at once gave him high rank as a naturalist. In 1841 he was attached to a scientific expedition sent to Asia Minor under the auspices of government. During his absence of two years he mude important observations and discoveries in the botany, zoilingy, and geology of the Mediterranean Sea, islanda, and coasta, many of which are embodied in the remarkable account of his younges, which he published in conjunction with Lieut. Spratt. During his absence, he was appointed to the professorship of botany in King's College, London. His yast knowledge was soon appreciated, and he became secretary and curator to the Geological Society of London, and was afterwards placed at the head of the palseontological department of the Museum of Economic Geology, where he labored for some years with zeal and assiduity. Besides the works already mentioned, he contributed a variety of papers and memoirs to scientific journals; he also constructed the Geological and Palseontological Map of the British Isles; and a World Map of great interest, entitled Pistribution of Marrie Life, &c., embodying the results of his original researches. On the death of Jameson, professor of natural history in the university of Edinburgh, in 1853, Prof. Forbes was nominated his successor; he was chosen president of the Orbes, Edward, an English naturalist, B. 1815, in the Isle of Man, where his father was a banker. His love of

Torbontle, a. (Mrs.) An arseniate of nickel and co-balt found in the desert of Atacama. A variety of An-nabergite. Comp. Arsenic 44-05, nickel 19-71, colait 9-24, hydrogen 26-98; pp. gr. 30-06. Forbes'towm, in California, a post-village of Butte co., abt. 20 m. E. by N. of Oroville; pop. about 400. Forbid', v. a. (imp. forbade; pp. forbid, forbids). [A. S. forbeodan; Ger. verbicten.] To prohibit; to in-terdict; to command to forbear or not to do.

" Time forbids us to dwell on the subje - Hool To com.nand away from; to prohibit from entrance.

"Have I not forbid her my house?" — Shake.

To oppose; to hinder; to obstruct. "A blaze of glory that forbide the sight."- Dryden.

To utter a prohibition.

"Now the good gods forbid!" -

Forbid', FORBIDER, p. a. Hindered; obstructed,—Prohibited: interdicted: aa, the forbidden fruit.
Forbid'den-fruit, n. (Bot.) A name fancifully given
to the fruit of different species of the genus Citrus
Forbid'den, n. One who, or that which, firlids.
Forbid'ding, p. a. Repelling approach: disagreeable:
unpleasant; displeasing; as, a forbidding countenance.
a forbidding manner.
Offensive repulsive chilous abbourant

Offensive; repulsive; odious; abhorrent.

"Tragedy was made forbidding and horrible."— Hill.

"Tragedy was made forbidding and nerribe."— stu.

Forbid'dingly, adv. In a forbidding manner.

Forbin, Claude, Chevalier de, a distinguished French
naval commander, B. in 1656. In 1685 he accompanied
the French ambassador to Siam, where he gained the
favor of the king, then desirous of introducing into his
kingdem the Christian religion and the civilization of

the West. Forbin remained two years, as high admiral, general, &c., to his Simusee majesty; and on his return to Europe he signalized himself on several occasions. In 1763he was intrusted with the command of the squadron which was to convey the Pretender to Scotland, but owing to the vigilance of Admiral Byng, he could not effect a landing. D. 1733.

owing to the vigilance of Admiral Dying, we could not effect a landing. D. 1733.

Forbore', imp. of Forbsar, q.v.

Forborne', pp. of Forbsar, q.v.

Fore, (Girs.) a. [Fr. force, from Lat. fortis, strong,—
allied to Lat. viz; Gr. his, hinos, strength.]

Strength;

vigor; might; energy.

"A ship, which hath strock sail, doth run,
By force of that force which before it won." — Donne.

-That which causes an operation or moral effect.

No definitions are of force enough to destroy constant expense."—Locks.

—Violence; compulsion; coercion.
"They hold the crown by force and not by right." — Shake. -Cogency; virtue; efficacy; validity; as, the force of an argument, or a term. - Power for war; troops; armament; an army or navy; - usually in the plural.

"Look on my forces with a gracious eye." - Shake.

"Look on my forces with a gracious ys."—Shabs.

(Mech. and Phys.) Any cause which is capable of producing motion in matter, or of stopping or altering its direction when produced. Every visible particle of matter is under the influence of several forces, exerted upon it both by distant and by adjacent particles, and upon which it acts in return; for the action of one body on another is always accompanied by a reaction of the latter upon the former, of the same intensity, in an opposite direction. The motions observed in some bodies are owing to these forces, and upon their balance the apparent state of rest in others is dependent. According to Sir John Herschel, the origin of the idea of force must be referred to the consciousness of each individual. Heaps: "We are conscious of a power to move our own limbs, and by their intervention, other bodies; and this effect is the result of a certain inexplicable process, which we are aware of, by which we exert force; and own when such exertion produces no visible effect, (as when we press our two hands violently together, so as just to oppose each other's effort,) we still perceive, by the highes and exhaustion, and by the impossibility of maintaining the effort long, that something is going on within us, of which the mind is the agent, and the will the determining cause." In the case of P. exerted by the right hand, and met by an equal force from the left, the two, acting in opposite directions, exactly neutralize such other, and may be said to be in equilibrio, and the effect is called pressure. As this force is found to have its proximate seat in the muscles of man and other animals, it is called muscular or animal force. This force can be communicated to inanimate matter, as when a (Mech. and Phys.) Any cause which is capable of pro its proximate seat in the muscles of man and other animals, it is called muscular or animal force. This force can be communicated to inanimate matter, as when a stone is projected from the hand. Muscular force may also be concentrated in the same mass by continued action, as when a stone, by means of a sling, is continuously acted upon by the same arm, it will at length be projected with an intensity of action capable of producing very rolent effects. Force transferred to moving masses of matter is called mechanical force, and by multiplying the quantity of matter in a body by its velocity, we arrive at its momentum, or the quantity of force which it is capable of exerting upon other bodies opposed to it. The investigation of the laws of motion constitutes the province of Dynamics. In mechanics, the term decomis capable of exerting upon other bodies opposed to it. The investigation of the laws of motion constitutes the province of Dynamics. In mechanics, the term decomposition of forces signifies the same thing as resolution of forces. Any force may be decomposed or resolved into a number of forces, and the original force will be equal to the resultant of those forces. Thus, if the given force be represented by the disgonal of a purallelogram, it can be resolved or decomposed into two forces of like intensity and direction, represented by the two sides of the parallelogram. Any one exerting muscular or animal force is soon made conscious that it may be opposed by other forces appertaining to insaminate matter. In lifting a lump of metal, atone, or other heavy substance from the ground, an opposing force is experienced, which called weight or gravity. On pressing with the arm on a strong apring, another opposing force is observed, called desticity. Some forces cause masses of matter to approach and others to recede from each other, retaining them in their second position saniant an opposing force; the former are called forces of attraction, and elasticity as forces of repulsion. In electricity and magnetism the forces of attraction and repulsion are also magnetism the forces of attraction and repulsion are also shown. Polar forces are those which are conceived to act in opposite directions at the extremities of the axes of molecules or of masses of matter. The forces mentioned above are usually termed external forces, for they act upon matter at sensible distances; but there are others. act upon matter at sensible distances; but there are others which act only upon its constituent molecules at insantile distances; these are frequently called internal or molecular forces; they include homogeneous attraction or cohesion, the universal antagonist of which is the repulsive force of heat. (See Hear.) Another attractive force is that of heterogeneous affinity, by which a piece of metal or glass is sected when dipped into water. Heterogeneous attraction is seen in its highest degree in themical affinity, an inquiry into the laws of which force constitutes the chemist's peculiar province. (See Affinity.) The correlation of the physical forces is a very important principle in natural philosophy, which about 50 years ago was particularly enunciated by Mr. W. R. Grove, the inventor of the voltaic lattery which goes by his name. Many philosophers had previously asserted that all the forces of nature were intimately connected,

and dependent upon one common principle; but the correlation, or necessary mutual dependence and commutability of each of the physical forces upon and into any other, or into all, and of all, reciprocally into each other, was, at its original enunciation, the particular theory of Mr. drove. His doctrine is, "that the various affections of matter which constitute the main objects of experimental physics,—namely, heat, light, electricity, magnetism, chemical affinity, and motion, are all correlative, or have a reciprocal dependence; that neither, taken abstractedly, can be said to be the essential cause of the others. but that either may produce or be converted into abstractedly, can be said to be the essential cause of the others, but that either may produce or be converted into any of the others: thus, heat may, mediately or immediately, produce electricity; electricity may produce heat; and so of the rest, each merging itself, as the force it produces becomes developed; and that the same must hold good of other forces, it being an irresistible inference of the produces becomes a that a force cannot originate. from observed phenomena, that a force cannot originate otherwise than by devolution from some preexisting force or forces."—Ref. On the Correlation of Physical Porces, by W. B. Grove.

Forces, by W. K. Grove.

Force, v. a. To use or exert strength or power upon or
against; to compel; to constrain; to cause to do, or to
forbear, by the exercise of a power not resistible; to
overpower; to impel; as, to force slaves to work, to
force the enemy to submit. — To cause to move; to draw
or push by main strength.

"It struck so fast, so deeply buried lay,
That scarce the victor forced the steel away."—Dryden.

To enforce; to urge; to press; to compel by strength of evidence; as, to force conviction.— To obtain by force to storm; to assault; to take by violence.

"Atrides might as well have forced the sky." - Wall -To ravish.

"Force her, —I like it not." — Dryden.

—r. n. To use force or violence.

Forced, p. a. Affected; overstrained; unnatural.

Forcedly, adv. In a forced manner.

Forcedless, n. The state or condition of being forced.

Forcedly, a. Impelled by violence; driven with force; acting with power; violent; impetuous.

Forcedless, a. Feeble; impotent.

Forcedess, a. Feeble; impotent.

Forcedess, n. [Fr. farce, stuffing, and Eng. meat.]

Force issue, a. recoit; impotents, and Eng. meal.]
See Farce.
Forcemeat, a. [Fr.] (Her.) Said of a horse when rearing, or standing on his hinder legs.
Forceme, a. [Fr.] (Her.) Said of a horse when rearing, or standing on his hinder legs.
Forceme, a. [Lat., pincers. The latter part of the word, ceps, is from capere, to seize; the for probably from the root fer, to be hot, which appears in ferere, to be hot, furnus, an oven, &c.] A pair of pincers or tongs, for seizing hot iron, &c.
—Small pincers; nippers, used by dentists, watchmakers, and others, to seize and hold small bodies, which it would not be practicable to manipulate with the fingers. (Surg.) A name common to certain instruments of various shapes, according to the purpose they are intended to serve; but the principal of all is that of a pair of pincers with two blades, either with or without handles. They are much used in surgery, especially for taking hold of substances that cannot be conveniently laid hold of with the fingers. Certain kinds are used for tooth-drawing; others, for securing the mouths of arteries, in order to their being tied; others are used in dissecting; others in lithotomy; and others in midwifery, for axiding delivery in difficult cases.
Force'-pump, Forc'ing-pump.
Forc'elble, a. liaving efficacy; impetuous; driving forward with force; powerful; acting with force; impressive; potent; weighty; coyent; strong; containing force; as, forcibe arguments.—Acting by violence; done by force; suffered by force.

"In embraces forcibe and foul."—Mitse.

Forc'elble Entry, or Detainer. (Low.) An offence

"In embraces forcible and foul." - Milton

done by force; suffered by force.

"In embraces forcible and foul." — Miten.

For'cible Emiry, or Detaimer. (Law.) An offence against the public peace, which is committed by vicinity taking or keeping possession of lands and tenements, with menaces, force, and arms, without the authority of law. Proceedings in case of F. E. are regulated by the statutes of the several States, and relate to a restitution of the property, if the individual who complains has been dispossessed, as well as to the punishment of the offender for a breach of the public peace, Por'ciblemess, n. The quality of being forcible.

For'cibly, "dr. In a forcible manner; powerfully; by violence or force.

Foreing, p.a. Compelling; impelling; driving; storming; ravishing.
—n. Act of one who urges or compels.

(Hall.) The system by which the growth and maturity of fruits, vegetables, and flowers are hastened by artificial means. The processes of forcing chiefly affect the admission of air, and the proper supplies of heat, light, and water. The grand effect is produced by heat, and the great art to be borne in mind is to supply only just so much of this as will harmonize with the light afforded by the sun, and the quantity of moisture which the nature of the plant under consideration requires. All the operations of nature being gradual, it will never do to accelerate the growth of plants to any very great extent, or in a hurry. The processes of forcing must, do to accelerate the growth of plants to any very great extent, or in a hurry. The processes of forcing must, therefore, be conducted on a graduated scale; and the heat, light, and moisture must be increased by degrees. next, hight, and mosture must be maturity. It must be likewise considered that exotics require a far higher temperature for forcing purposes than plants grown in

a more moderate clime; and that, therefore, the latter must not be subjected to as great heat as the former. Forcing is generally carried on in what are termed hothouses, which are heated by stores and built of glass, with paves floors, in order to allow the heat and light afforded by the sun to enter. The Dutch, who are particularly celebrated for this horticultural art, however, carry on their forcing in pits heated by the fermentation of manure. The art of forcing plants must not be confounded with the art of growing them in artificial climates, though in both cases the gardener proceeds on the same principle—vis., the imitation of nature. The chief difficulty in accomplishing this is the want of light: and hence the earlier in the season that any forced crop is produced, the greater is its deficiency in color and flavor. Electricity is now successfully employed as a forcing agent. See ELECTRICAL AGRICULTURE.

FORT ING-house, A. A het-house for raising plants, flowers and fruits, cariler in the season than they would naturally grow.

flowers and fruits, earlier in the season than they would naturally grow.

Forcipation. n. The act of seiging with pincers.

Ford, [foard.] n. [A. S. ford; Ger. furth, from führen, to lead.] That part of a river where the water is sufficiently shallow to admit of any person or persons crossing by means of wading, without having recourse to a bridge, ferry, or any other means of transportation. In military operations, fords are of the greatest service to an army. They are generally found either in the widest part of the river, where the current is not so strong, or in a diagonal line with the salient angles of any bend of the stream. Fords for infantry, to be really useful, should not be more than three feet in depth, and those for cavalry should not exceed four feet. From the rapidity of some currents, fords of greater depth are generally unsafe.

A stream; a current, without any consideration of passage or shallowness.

"Permit my ghost to pass the Stygian ford."-Dryden

-r. a. To pass or cross, as a river or other water by tread-ing or walking upon the bottom; to pass, as through water, by wading; to wade through. Ford'able, a. That may be waded or passed through

Ford'ableness, n. State of being fordable.

Ford'ableness, n. State of being fordable.
Ford, John. one of the best of the old English dramatists, B. 1586. Little is known of his life. His genlus, truly poetical, is lyric rather than dramatic. His earliest piece, acted in 1629, was the romantic play, The Lorer's Melanchols, which contains his famous description of the nightingale. His manner, both of feeling and of expression, may be well gathered from that work and his Broken Heart; and some of the most touching passages in English poetry may be read in his revolting play, 'Tis Phy She's a Whore. D. about 1640.
Ford, in Illimia, a N.E. central co.; area, about 490 sq. m. Ricers. Middle Fork of Vermillon river. Surjacs, level; and fertile. Cap. Paxton. Pop. (1890) 17,055.

soil, fertile. Cup. Paxton. Pop. (1890) 17,035, soil, fertile. Cup. Paxton. Pop. (1890) 17,035, Ford, in Ohio, a pat-office of Geanga county. Ford ham, in New York, formerly a post-village of Westchester co., now part of New York city, to which it was annexed in 1873. It is the seat of two prominent Boman Catholic institutions—St. John's College and St. Lorenth Theoleum Stations found that the 181

St. Joseph's Theological Seninary, founded in 1841.

Ford'ham, in Wisconsin, a village of Adams co., abt.

37 m. N.N.W. of Portage.

Fordoche Bayou, (for-dosh'-bay-u',) in Louisiana, enters the Atchafalaya Bayou from Iberville parish.

Ford River, or Fort Rives, in Michigan, enters Green Bay from Delta co.

et-office of Delta co.

—A post-office of Delta co.

Fords ville, in Kentucky, a post-village of Ohio co., about 120 m. W. by 8. of Frankfort.

Fords ville, in Mississippi, a post-village of Marion co., alout 100 m. 8. by K. of Jackson.

For dyee, in Pransylvania, a post-office of Greene co.

Fore, a. [A 8. fore; Ger. vor; Lat. pro.] Prior or anterior in place, time, order, or importance; advanced; being or coming in advance of something: coming first; anterior; preceding; prior.—Antecedent; as, the fore part of a discourse.—Being in front or toward the face; as, the fore part of a garment.—This word seldom occurs separately as an adjective, but is mostly found in composition, with the above significations.—adv. In the part that precedes or goes first.

 adv. In the part that precedes or goes first.
 (Naut.) The sea term for the part of the ship near n. (Naut.) the head.

the head.

For and aft. (Naut.) From stem to stern of a ship; from one end of a vessel to the other.—Foreand-aft sails are the jibs, driver, and stayssils.

Fore, a town of Ireland, in Leinster, co. Westmeath, about 3 m. E. of Castle Pollard.

Foreadmon'ish, v. a. To admonish or warn before the activation.

the act or event.

Forearm', r. a. To prepare for attack or resistance before the time of need.

Fore'arm, n. That part of the arm which is furthest advancel; the part between the ellow and the wrist. — See ARM.

See ARM.

Forearmed', a. Armed beforehand.

Fore'bay, n. That portion of a mill-race where the water is thrown upon the wheel.

Forebode', r. a. (A. S. fore, and bodon, to announce: Ger. bote, a messenger. See Bode.) To foretell; to predict; to prognesticate: as, to forekode good or bad for tune.— To be presentent of; to foreknow; to have a secret sense, as of something future.

"My heart forebodes I ne'er shall see you more."-Dryden.

Forebode'ment, n. A presaging; prognostication.
Forebod'er, n. A prognosticator; a scothsayer; a Foreboder, n. A prognosticative, foreknower.

Digitized by

Forebod'ing, n. Prognostication.
Forebod'ingly, ade. In a foreboding manner.
Pore'soddy, n. (Anat.) The chest.
(Nat.) All that postion of a vessel extending from
the mainment to the head.
(Nat.) A more applied to the fore-

FORE

The manimum to the first part of the fore partial to the fore yard-arm, to change the position of the foresail occasionally.

Fore cast, s. Contrivance beforehand; antecedent

policy; foresight; forethought.
"Alas! that Warwick had no me

-Prevision, or the antecedent determination proceeding

"Mem'ry and forecast just returns engage; That pointed back to youth, this on to ago."

e. a. To scheme beforehand; to plan before execution; to adjust, contrive, or appoint beforehand. — To foresee; to provide against.

To form a scheme previously; to coutrive before

Porecaster, n. One who contrives beforehand.

Forecastle, (för/katl) n. (Naut.) A short deck placed in front of a ship above the upper deck. It is generally terminated at each end, in ships of war, by a

placed in front of a ship above the upper deck. It is generally terminated at each end, in ahips of war, by a breastwork, the foremast part reaching to the beakhead, and the after portion reaching to the fore-chain. This part of a ship used to be very much elevated in former times, for the accommodation of archers and cross-bowmen; whence the term forecustle.

Forechose'en, a. Pre-elected.

Forechose'en, a. Pre-elected.

Forechose'en, a. Pre-elected.

Forechose'en, a. To shut out thoroughly; to shut up; to preclude; to stop; to prevent.

(Law.) To shut up; to bear. Used of the process of destroying an equity of redemption.

Forechose'ene, a. The act of foreclosing; prevention.

(Law.) The proceeding of a mortgagee to compel the mortgagor to elect whether to redeem the piedge or submit to the extinguishment of his right in the property, styled his equity of redemption. In some cases, however, the mortgagee obtains a decree for a safe of the land under the direction of an officer of the court, in which case the proceeds are applied to the discharge of incumbrances, according to their priority. This practice has been adopted in Indiana, Kentucky, Maryland, S. Carolina, Tennessee, Virginia, and perhaps in other States.

States.
Foredate', v. a. To date before the true time.
Fore deck, n. The forward part of a deck, or of a ship.

the fore.
Foredesign, (fore-de-rine,) v. a. To plan beforeh

to design previously.

to design previously.

Foredetermine, v. a. To decree beforehand.

Foredoom', v. a. To doom beforehand; to predestinate.

Fore'end, n. The anterior part.

Fore'father, n. An ancestor; a progenitor; one who precedes another in the line of genealogy, in any degree,

precedes another in the organization of the organization of the control of the co

-To defend; to guard; to secure.
Fore'finger, n. The finger next to the thumb; the

index-finger.

Fore foot, n.; pl. Foreger. One of the anterior feet of a quadruped or multiped. — A contemptuous term for the hand.

the nand.

Fore-front, (fore frant.) n. The foremost part.

(N:ut.) A piece of timber at the fore extremity of the keel of a ship, from which the stem arises.

Fore-gamger, N. (Nut.) A short piece of rope grafted on a harpoon, to which a line is attached when used.

Forego', r. a., (imp. FOREWENT; pp. FOREGONE.) To give up; to renounce: to resign.—To forbear to possess or enjoy; voluntarily to avoid, as the enjoyment of good. To go before; to precede; as, the joregoing remark.—To lose.

"Love, . . . whose violent property foregoes itself." — Sh

Forego'ing, p. a. Going before, in time or place; an-

Foregoing, p. a. Going before, in time or piace; an toccelent; previous; preceding; former.

Foregone', p. a. Given up; forborne to be possessed or enjoyed. — Predetermined; made up or decided beforehand; sa, a foregone conclusion.

Fore'ground, n. (Paint.) The part of the field or expanse of a picture which seems to lie before the figures.

Fore'hand, n. That part of a horse which is before the

a. Done early: done sooner than is customary.

Fore handed, a. Early; timely; seasonable; as forchanded care. — Formed in the foreparts, as a horse. "A substantial beast, bravely forekanded." - Dryden.

-In easy circumstances; not behind-hand.

" A forehanded, thrifty man." - Hauthorne

Forehead, (for'ed,) n. That part of the face which extends from the hair on the top of the head to the eyes.— Impudence: confidence; assurance.

"These men of forehead are magnificent in promises." - Collier.

Fore'-hook, n. (Naul.) A breast-hook.
Fore'-horne, n. The horse that goes foremost in a team.
Foreign. (for'm). a. [Fr. forein: Lat. foraneus, from foras, foris, abroad, out of doors.] Outlandish; exter-

Fore'-horse, n. The horse that goes foremost in a team.
Foreign, (for'rin.) a. [Fr. forain: Lat. foraneus, from foras, foris, altroat, out of doors.] Outlandish; externances; belonging to another nation or country: alien; not of the country in which one resides; strange; produced in a distant country or jurisdiction: coning from another country; as, foreign parts, foreign affairs, a foreign enemy.—Not belonging; not connected; not pertinent; not attaching; not to the purious distance of the day, from the morning to meridian or noon.

Fore'noon, n. The former part of the day, from the morning to meridian or noon.

Forem'sic, Forex'sicat, a. [Lat. forensis, from forum. The former part of the day, from the morning to meridian or noon.

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Foreign (foris, alroad, alload, alloa

pose: excluded; not admitted; as, foreign to the purpose, foreign from the argument.— Held at a distance; adventitious; not native or natural.

(Lum.) Every nation is foreign to all other nations; and the several States of the American Union are for-

eign to each other, with respect to their municipal laws. But the reciprocal relations between the national Government and the several States are not considered as

rement and the several places and provided in the provided in country where the judgment is recorded, or under the seal of the court where the judgment remains. With regard to judgments in courts of sister States of the U. States, it is enucted by the Acts of May 23, 1790, and March 27, 1804, that they shall be proved or admitted in any other court within the U. States, by the attestation of the clerk and the seal of the court annexed; together with a certificate of the judge, chief justice, or presiding magistrate, as the case may be, that the said attestation is in due form: and that such records and judicial proceedings shall have such faith and credit given to them in every court within the U. States, as they have by law or usage in the courts of the State from whence they are or shall be taken.

Foreign Laws. (Law.) The laws of a forsien com-

or shall be taken.

Foreign Laws. (Law.) The laws of a foreign country. The courts do not judicially take notice of foreign laws; and they must, therefore, be proved as facts. Exemplified or sworn copies of written laws and other public documents must, as a general thing, be produced when they can be produced; but should they be refused by the competent authorities, then inferior proof may be admitted. The effect of foreign laws, when proved, is properly referable to the court; the object of the proof is to enable the court to instruct the jury what is, in point of law, the result from foreign laws to be applied to the matters in controversy before them. The plied to the matters in controversy before them. The court are, therefore, to decide which is the proper evi-dence of the laws of a foreign country, and when evi-dence is given of those laws, the court are to judge of

their applicability to the matter in issue.

or'eigner, s. A person born in a foreign country, or without the country or jurisdiction of which one speaks. In the U. States, any one who was born in some other country than the U. States, and who owes allegiance to

some foreign state or country, is a foreigner.

For'eignness, s. State of being foreign; remoteness want of relation.

want of relation.

Fore-imag'ine, r. a. To conceive or fancy before-hand, or before proofs.

Fore-imag's, (fore-juj',), r. a. To judge before hearing the facts and proofs; to prejudge.

Fore-imag'er, n. (Eng. Law.) A judgment by which a person is deprived or put out of a thing in question; a judgment of compulsion.

Fore-kmow, (fore-no',), r. a. To have previous knowledge of; to foresee.

Fore-kmowledge, (fore-no'',), n. Knowledge of a thing before it huppens; prescience.

thing before it happens; prescience.

Forel, n. [L. Lat. fodrus. forulus, forellus; Fr. four-rau, a sheath.] A kind of parchment or veilum formerly much used for covering books.

Foreland, n. A promontory or cape; a point of land extending into the sea; a headland.

(Firt.) A piece of ground between the wall of a place and the most.

Fore'lands, (North and South,) two headlands

\*\*Pore\*!ands. (North and South,) two headlands on the S. E. coast of England, and on the E. seaboard of the co. of Kent; the first, or N. Poreland, forms the N.E. angle of the co.; it projects into the sea in the form of a bastion, and consists of chalky cliffs nearly 200 feet in height. A light-house of the first class, having a fixed light elevated 340 feet above the level of the sea, was erected on this promontory in 1688; Lat. 51° 22° 25" N. Lon. 1° 2" W. The S. Poreland, about 16 in, S. of the former, consists also of chalky cliffs, and has two light-bourses with fixed lights erected upon it to warn abine former, commissions and of cutary crims, and mas two igni-houses, with fixed lights, erected upon it, to warn ships coming from the S. of their approach to the Goodwin Sands. The N. Foreland is made, by Act of Parliament, the S.E. extremity of the port of London. \*Orelany\*, v. a. To lie in wait for. — To lay or contrive beforeland.

Fore'lock, n. The lock of hair that grows from the

repart of the head.

To take time by the forelock, i. e., to avail one's self

promptly of an opportunity.

(Naut.) On shipboard, a small iron wedge driven through a hole in a bolt to prevent it from slipping out of position.

e'man, n.; pl. Fore'men. The chief man of a jury, who acts as their speaker. — A chief workman; an over seer: a superintendent.

seer: a supermement.

Fore'mast, n. (Naul.) The mast nearest to the bow in all vessels carrying more than one mast.

Foremen'tioned, a. Recited or written in a former

Foremen'tioned, a. Recited or written in a former part of the same discourse.

Fore'most, a. [A.S. farmest.] First in place, rank, or dignity; most advanced; first in time.

Forenamed', a. Nominated before; mentioned before in the same writing or discourse.

Fore'noon, n. The former part of the day, from the problem or most.

the student must maintain either the affirmative or the negative of a given question. Orcordain', v. a. To pr

To preordain; to predestinate; to predetermine

to predetermine
Foreordina tion, n. Previous appointment; predetermination; predestination.
Fore part, n. The part first in time; the part most advanced in place; the beginning.
Fore plame, n. (Carp.) The Plane.
Foreoprom'ised, a. Pre-engaged.
Foreoprom'ised, a. Pre-engaged.
Foreoprom'ised, a. Clede before; quoted in a foregoing part of the work.
Foreoprom', isp. of Forenux, q. v.
Foreoprom', v. a. (isp. Porenux, pp. Forenux.) To advance before; to precede, or have the start of.

—To come before as an earnest of something to follow; to introduce as a harbinger.

"And plut will forenus approaching towa." — Druden.

"And pity still foreruns approaching love." - Dry

Forerun'ner, s. A messenger sent before to give notice of the approach of others; a harbinger; a pre-cursor; a prognostic; a sign foreshadowing something to follow

"Loss of sight is the forerunner of death." - Sout

(Naut.) A piece of rag terminating the stray line of

(Nau.) A process.

Oresail, (fore'sel,) n. (Naut.) The long lower square sail on the foremast of a ship;—the fore-and-aft sail on the foremast of a schooner:—the triangular sail before the foremast of a schooner. the foremast of a schooner:—the triangular sail before the mast of a sloop attached to the stay which leads from the mast-head to the foot of the bowsprit.

'Oresee', v. c. (imp. FORESAW, pp. FORESKEN.) To see or know an event before it happens; to have prescience of: to foreknow.

Foreshad'owing, n. Act of shadowing beforehand; anticipation.
Fore'ship, n. The forward part of a ship.
Foreshort'em, v. a. (Paint.) To shorten, in drawing and painting, the parts of figures that stand forward; to represent figures as they appear to the eye when viewed obliquely.
Foreshort'eming, n. (Paint. & Prep.) The method of drawing, in strict accordance with the rules of perspective, the limbs or body of a human being, or the body of an animal, when we are looking directly against either of them, in a position which shows their breadth while it conceals their length, either entirely or partially. Or, in other words, foreshortening occurs when the latter is either approaching or receding from us, and when the former is extended, either toward us or from us, in a direction varying from a line which is st right us, in a direction varying from a line which is at right angles to the surface of the eye to another that is par-allel with it, under the former of which conditions it allel with it, under the former of which conditions it would be seen foreshortened to the greatest possible degree, while under the latter it would be viewed in its entire length. Great attention must be paid to the treatment of light and shadow in foreshortening the arm, leg, or body of a human being, or the carcass and legs of an animal, that the effect produced may convey a correct idea of the intention of the draughtsman, and that, although the object is shortened in drawing, so that the front or forepart only is presented to the view of the spectator, it may be clearly seen that it possesses length, and, as in the case of an extended arm, that it is projecting from the trunk to an extent compatible with the position in which it is placed. Practice in foreshortening may be best obtained by making drawings from plaster-casts of figures and animals placed in different positions; but the principle may be readily seen ferent positions; but the principle may be readily seen by placing a wooden cylinder on a vertical bar and turn-ing it round, first in the horizontal plane passing through ing it round, first in the horizontal plane passing through the eye of the observer, and then shove and below that plane, while its outline assumes all forms between that of a circle when its end is directly opposite the eye, and that of a rectangular parallelogram when the eye beholds its entire length. In all positions between these extremes, the cylinder will present examples of foreshortening, although the term is more strictly confined to the view an object presents when its length is in a line perpendicular to the surface of the eye of the observer, or varying but little from it.

Foreshow, v. a. (imp. Foreshows, pp. Foreshows, To predict: to propositions: to forestell: to represent

**Oreshow**, v. a. (imp. rokeshowed, pp. rokeshows.)
To predict; to prognosticate; to foretell; to represent beforeband.

Fore'side, n. The front side; also, a specious outside.
Fore'sight, n. Prescience; foreknowledge; prognostication.—Provident care of futurity; foreknowledge

tication. Provident care of futurity; foreknowledge accompanied with prudence; forethought.

(Surv.) Any reading of the levelling staff at the given station except the back-sight. — The bearing taken by a compass forward.

Foresig'mify, v. a. To betoken previously; to foreshadow; to typify.

Foresham, n. (Anat.) The prepuce.

Foresham, n. (Fr. fort: L. Lat. foresta; Ger. forst.] An extensive surface of country naturally covered with trees and und-rgrowth, as distinguished from a plantation which has been made by art. Forestaxe interesting in many ways, as they may be said to mark the track of (vilization, besides being of the utmost utility to man, both from local as well as atmospherical influences. The Calculum and Hercynian forests are the first we read of as celebrated in history; the former being the retreat of the Picts and Scots in North Britain, the latter extending from Switzerland to Transylvania. In the time tending from Switzerland to Transylvania. In the time of Crear, a journey through this forest was computed to last over sixty days, or more. Forests were greatly Digitized by

1215

venerated by the Romans and other ancient peoples, temples being often erected and sacrifices ordained in their honor. This may be considered one of the greatest reasons for the Druids' living in them, as it was thought much more sacred to dwell under trees than as plain class—in the open field. Forests supply man with many necessaries. Timber and fuel, medicinal and nourishing plants, all trace their source to the luxuriant forest, which also affords shelter to the houseless, and a field of occupation to the hunter and lumberman. European forests are mostly composed of oak, elm, beech, poplar, ash, alder, plane, willow, lime, and birch, not to speak of the numbers of wild apple, pear, and other fruit trees; besides pine, fir, and cypress in procusion, with many species of brushwood and vines. In Norway, the forest-laud extends up to Drontheim, which is in latitude 630 north. Switzerland is well wooded, and oaks and firs are found at a level over 4,000 feet is in latitude 63° horth. Switzerland is well wooded, and caks and firs are found at a level over 4,000 feet above the sea. France has some fine examples, her variety of climate being favorable to the growth of many species of trees, some of which, indeed, belong to a much warmer climate; the forcets of the Ardennes, Compeigne, and Fontainebleau may be mentioned as many species of trees, some of which, indeed, belong to a much warmer climate; the forests of the Ardennes, Compeigne, and Fontainebleau may be mentioned as instances of the expanses she has covered with trees. It is not to the control of the interest of —all persons being prohibited from hunting in them but the king or persons authorized by him. After the time of the Conquest the forests came to be guarded with greater strictness, their number was increased, and their bounds enlarged, and trespassers were punished with greater severity. Finally, a system of laws and courts for their administration was established, by which not only all offences touching the royal forests were tried, but all persons living upon these properties governed. The Conqueror is said to have possessed 68 forests, 13 chases, and 781 parks. A chase is a smaller kind of forest, not subject to the forest laws, and which may be in the hands of a subject; whereas a forest can only be held by the crown. A park differs from a forest or chase in being of smaller extent and inclosed. The For est Grove, in New Jersey, a post-village of Glouders, being of subject; whereas a forest can only be held by the crown. A park differs from a forest can only be held by the crown. A park differs from a forest or chase in being of smaller extent and inclosed. The Coqueror, who is said to have regarded the red deer with a sort of parential affection, enacted very severe preatites against treepsacers, and the killing of a stag or bar was visited with loss of sight. His successors were cedited with still greater severity, and it is said that the killing of any of the beasts of chase within a forest was punishable as murder. Vast tracts of country were depopulated in order to create new forests, or to extend the limits of old ones, and under the color of forest-law the limits of old ones, and under the color of forest-law feeting with however, many of these hardships were removed by the charts de foresta, obtained in the 9th year of Henry III., the immunities of which, says Blackstone, were "as warmly contended for, and extorted from the king with as much difficulty, as those of the Magoa Charta itself." This law, still unrepealed, declares that "no man from henceforth shall lose either life or member for killing our deer; but if any man be takes and convicted for taking of our venison, he shall make a greyous fine if he have anything whereof; and if he have anything whereof; and if he have nothing to lose, he shall be imprisoned a year and aday, and after that time, if he cannot find sufficient surcties, he shall adjure the realm."—The principal forests of England are the New Forest, Sherwood, Dean, Windsor, Epping, Dartmoor, Wychwood, in Nortschine; Salecy, Whittlebury, and Rockingham, in Nortbamptonshire; Waltham, in Lincolnshire; and firsted. According to Humboldt, the direct influence of forests on climate is a diminution of temperature, which is effected either by screening the reign of queen Victoria, several of the royal tracts have been dincreased. According to Humboldt, the direct influence of forests

the waterflow, forests become of prime importance as producers of a cheap source of water power. In the future, as coal becomes harder to obtain, this importance will be even more marked than at present.

For est, a. Relating to a forest; sylvan; rustic.

—a. To cover with trees or wood.

For est, in Missessor, a township of Rice co.

For est, in Missessor, a township of Rice co.

For est, in Missessor, a post-office of Clinton co.

For est, in Missessor, a post-office of Clinton co.

For est, in New York, a post-office of Clinton co.

For est, in New York, a post-office of Clinton co.

For est, in Possegleania, a N.N.W. co.; erea, about 30 m. N. by E. of Bellefontaine.

For est, in Possegleania, a N.N.W. co.; erea, about 410 aq. m. Ricers, Clarion or Toby's river, and Tionesta creek. Surface, broken; soll, fertile. Cap. Tionesta Pop. (1890) 8,482.

For est, in Wisconsin, a township of Fond du Lac co.

—A township of Vernon co.

A township of Vernon co.

A township of Vernon co.

FORE

Centre.

A township of Vernon co.

Centre.

—A township of Vernon co.

Fore'staff, a. (Naul.) An instrument formerly used for taking the altitude of heavenly bodies.

For'estage, a. [Fr., from L. Lat. forestagism.] (Eng. Law.) A duty formerly paid to the king's foresters. Also, a service paid by foresters to the king of England.

For'estall, a. Pertaining to forests.

Forestall', v. a. [Fore, and STALL, q. r.] To intercept and buy up corn and provisions, before they arrive at the market stalls, with intent to sell them at higher prices.—Hence, by extension, to take beforehand; to anticipate; to hinder by prevention or preoccupation.

Forestall'er. ». One who forestalls.

Fore'-stay, a. (Naul.) The rope supporting the foremast of a ship.

For'estburg, in New York, a post-town of Sullivan co. the Swiss cautons of Luzerne, Schwytz, Unterwalden, and Uri, in the center of which is the Lake of Luzerne. See Switzelland.

and Url, in the center of which is the See Switzerland.

For est, in California, a post-village of Sierra county, on Oregon creek, about 32 m. N.E. of Nevada City.

For est City, in Ilimoia, a post-village of Mason co, about 30 m. S.S.W. of Peoria.

For est City, in Iona, a flourishing township of Haward co.

A post-town, cap. of Winnebago co., on M. & St. L. and B., C. R. & N. R. Rs., 28 m. W. N. W. of Mason City. Trade center of a rich farming region. Pop. (1897) about 1,200.

about 1,200.

For'est City, in Maise, a post-town of Washington co.

For'est City, in Missessia, a post-office of Meeker co.,
on Crow river, about 70 m. W.N.W. of St. Paul.

For'est City, in Missessi, a post-town of Holt co., on
the Missouri river, about 68 m. above St. Joseph.

For'est City, in North Carolisa, a P. O. of Washington co.

ton co.

For'est City, in New York, a village of Tompkins co., about 150 m. W. of Allany.

For'est City, in South Dakota, a post-office of Potter co.

For'est Creek, in South Carolina, enters the Tiger river, from Union co.

For'estedie, in Massachusetts, a P. O. of Barnstable co.

For'estedie, a. Covered with trees or forests; wooded.

For'estedie, a. An officer appointed to watch over a forest, and preserve the game.—An inhabitant of a forest.

For'ester, in Michigan, a post-township of Sanilac co., about 35 m. N.N.E. of Detroit.

For'est Grove. In New Jersey. a post-village of Glou-

about 85 m. N.N.E. of Detroite.

For'est Grove, in New Jersey, a post-village of Gloucester co., about 29 m. S. by E. of Camden.

For'est Grove, in Orgon, a post-village of Washington co., about 6 m. W. of Hillsboro.

For'est Hill, in California, a post-village of Placer co., about 22 m. N.E. of Auburn.

For'est Hill, in Indiana, a post-office of Decatur co.

For'est Hill, in Maryland, a post-office of Harford co.

For'est Hill, in Michigan, a post-office of Gratiot co.

For'est Hill, in Pennylcania, a P. O. of Union co.

For'est Hill, in Virginia, a post-village of Brunswick co., 18 m. W. of Jarrett's Station.

For'est Hill, in West Virginia, a P.O. of Summers co.

For'est Home, in California, a post-village of Amador co., about 18 m. N.W. of Jackson.

For'est Home, in Inoa, a post-village of Poweshiek

abt. 16 m. N.E. of Flint.

—A post-village of Sanilac co., on Lake fluron, abt. 32 m. N. of Lexington.

Forestville, in Minnesota, a post-township of Fillmore co., abt. 7 m. W. by S. of Preston.

Forestville, in N. Carolina, a post-village of Wake co., abt. 15 m. W. of Raleigh.

Forestville, in New York, a post-village of Chautauqua co., abutt 8 m. S.E. of Dunkirk.

Forestville, in South Carolina, a P. O. of Florence co. Forestville, in Virginia, a P. O. of Shenandosh co. Forestville, in Wisconsin, a post-township of Door co., abt. 2 m. W. of Lake Michigan.

Fore'taste. n. Previous enjoyment or experience:

Fore'taste, n. Previous enjoyment or experience;

nntepast antepast.

-c. a. To have previous enjoyment or experience, as of something; to anticipate. — To taste before another. Forestell', v. a. (imp. and pp. rongroud.) To tell before an event happens; to foretoken; to foreshow; to predict.

v.n. To utter prediction or prophecy.
oretell'er, n. One who predicts or prophesies; a

Foretell'ing, n. A declaration of something future.
Forethink, v. a. (imp. and pp. FORETHOUGHT.) To
think beforehand; to anticipate; to contrive ante-

codently.

-v. n. To contrive beforehand.

Forethought, (forethawt',) a. Predetermined; de-

Forethought, (Jorethaw', a. Predetermined; deliberate; prepense.

Fore'thought, n. Anticipation; premeditation; foresight; provident care.

Forethought'ful, a. Having forethought.

Foreto'ken, v. a. To presignify; to foreshow; to progneticate.

Fore'token, n. A previous sign; a prognostic.
Fore'toeth, n.; pl. Foretern. (Anat.) One of the teeth in the front part of the mouth; an incisor.
Fore'top, n. The top part in front, as of a head-dress.

The hair on the forepart of the head.
(Naut.) A frame or platform about the top of the foremast.

Incremest.

Foretop'man, n. (Naut.) A seaman whose duties relate to the foretop of a ship.

Forev'er, adv. To eternity; through endless ages; constantly; continually; unchangeably; always; cease-lessly; endlessly; everlastingly; eternally.

Forewarm; v. a. To admonish beforehand; to inform

previously; to give previous notice to; to caution be forehand.

Forewarm, v. a. To admonish heforehand; to inform previously; to give previous notice to; to caution beforehand.

Forey, Elir Fránkar, Marshal of France, B. in Paris, 1804, was admitted to the Military School of St. Cyr in 1822. He took part in the first expedition to Aigiers, and distinguished himself at the buttle of Medesh, in the retreat which followed the first slege of Coustantine, and at the Iron Gates. Having been placed at the head of a battalion of chasseur-ù-pied in 1840, he went through four other African campsigns, and returned to France with the rank of colonel in 1844, became a general in 1848, took an active part in the coup d'état of Dec. 1851, and was made a general of division and commander of the Legion of Honor in 1852. At the breaking out of the war with Russia, he was placed on the reserve division of the Army of the Bast, and for a time held the command of the slege force before Sebastopol. In 1857 he was nominated to the first division of the Army of Paris. He commanded this division during the Italian war in 1860, gained at Montebello the first battle of the campaign, and distinguished himself at Magenta and Solferino, being wounded at the latter. When the expedition to Mexico was decided upon in 1861, F. received the command of the French troops. After overcoming many obstacles, and fighting several sanguinary engagements, he attacked and stormed the strong post of Puebla, thereby throwing open the road to the city of Mexico. For this service he was made Marshal of France, when he resigned his command to the city of Mexico. For this service he was made Marshal of France, when he resigned his command to the city of Mexico. For this service he was made Marshal of France, when he resigned his command to the city of Mexico of Honor in 1859, and was called to the senate in that year. D. 1872.

For flar, a town of Scotland, cap. of Forfarshire, is situated in the Vale of Strathmore, 14 m. N. of Dundee. Mose, Linens, omaburgs and Highland broques. Pop. (1891) 12,844.

For flare, a town of Sc

(1891) 12,844.

For Tarabhree, or ANGES, a maritime county of Scotland, on the E. coast of that kingdom, having E. the German Ocean. S. the Frith of Tay and co Perth. W. the latter, N. co. Aberdeen, and N.E. the co. of Kincardine. It is of an irregular shape, and comprises an area of 889 as, m., or 568,750 acres. Dec. This co. is naturally divided into 4 dista., whereof the first, and most extensive called the Brace of Agang. comprises all the S. divided into 4 dists., whereof the first, and most extensive, called the Brace of Angus, comprises all the S. slope of the Grampian Hills, from the summit of the ridge till it loses itself in the valley of Strathmore. The mountains in this division occasionally present bold, terrific precipiecs. The second division consists of that portion of the valley of Strathmore between the foot of the Grampians and the Sidlaw Hills (Hose of Angus), and is generally a finely diversified, well cultivated country. The third division consists of a portion of the Sidlaws, parallel to the Grampians, and attaining a height of from 1,200 to 1,400 ft. Some are detached, and covered with heath; others are well cultivated. The fourth and last division comprises the rich, low-lying,

level lands between the Sidlaw Hills and the sea, and the Frith of Tay. Rivers. The N. Kek, S. Kek, Isla, &c. Min. Limestone, porphyry, jasper, and cairngorms. Prod. Cereals. Manuf. Linens, canvas, leather, rope, &c. Ship-building is extensively carried on. Chief towns. Dundee, Montrose, Arbroath, and Forfar (the cap). Pop. (1887) 278,800.
Forfielt, (forfat), v. a. [Fr. forfaire, pp. forfait; L. Lat. forigacer, from foris, outside, and facere, to make.] To do amiss.—To lose, or render confiscable, by some fault, offonce, or crime; to lose the right, as to some species of property, or that which belongs to one; to allenate, as the right to possess, by some neglect or crime.—a. That which is forfeited or lost, or the right to which is allenated by a crime, offence, neglect of duty, or breach of contract; hence, a fine; a mulet; a penalty.—pl. A game, in which something deposited is redeemed only by performing some sportive task or paying a trifling fine.

only by performing some sportive task or paying a trifling fine.

For feltable, a. Subject to forfeiture.

For feltable, p. a. Lost or alienated by an offence, crime,
or breach of condition.

For felture, n. [Fr. forfaiture, from L. Lat. forfature.] (Eng. Law.) A punishment annexed to some
illegal act or negligence in the owner of real property,
whereby he loses all his interest therein, and it goes to
the party injured as a recompense for the wrong which
either he alone or the public with him has sustained.

Forfeitures are either civil or criminal. Civil forfeiture
takes place when some alienation is made contrary to
law, as in mortmain; or when a particular tenant
alienes for a larger estate than he himself has, as when
a tenant for life makes a conveyance in fee. Forfeiture
for criminal causes takes place in treason or felouy, and
for one or two other offences.

for criminal causes takes place in treason or felouy, and for one or two other offences.

(Amer. Law.) F. by allemation are almost unknown in this country, and the most just principle prevails that the conveyance by the tenant operates only on the interest which he possessed, and does not affect the remainder-man or reversioner. Under the constitution and laws of the U. States, F. for crimes is nearly abolished; and when it occurs, the State recovers only the title which the owner had. — An estate may be forfeited by a breach or non-performance of a condition annexed to the estate, either expressed in the deed at its original creation, or implied by law, from a principle of natural reason.

reason.

Forficula'rise, n. pl. (Zoöl.) The Earwig, a family of insects belonging to the sub-order Orthoptera. The Common Earwig, Forficula auricularia (Fig. 1045), which may be given as type of the family, is about three quarters of an inch in length, and has a somewhat flattened body; the wings being folded under very short and truncated elytra or wing-wases, and the extremity of the abdomen armed with a horny forceps. When alarmed, the insect clevates the abdomen, and opens these forceps, in order to defend itself against the attack of enemies. Though not produced quite perfect from the egg, the Earwig requires but a very small change before it arrives at that state which fits it before it arrives at that state which fits it for flight and generation. Its natural func-tions are never suspended; from the instant

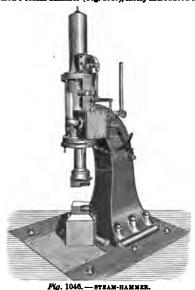
tions are never suspen-led; from the instant it leaves the egg, it continues to eat, move, leap, and pursue its prey; and a skin, which inclosed a part of its body and limbs, bursts behind, and gives full play to a set of wings with which it flies in pursuit of its mate. They prefer coul and damp places, collect under stones and the bark of trees, creep into crevices, fly at night, and devour fruit. It has been said that they crawl into the ear.

Forgave', imp. of Forgive, q. v.

Forge, (forj.) n. [Fr. forge; Sp. fragua; Lat. fabrica, the workshops of a faber or mechanic.] (Metal.) The apparatus or works for heating bars of iron and steel and working them under the hammer. Works in which cast-iron from the blast furnaces is converted into maintenance. cast-iron from the blast furnaces is converted into malleable iron by puddling (q, v), and subsequent hammering, and also where the native ores of iron are reduced lable iron by puddling (q. v.) and subsequent hammering, and also where the native ores of iron are reduced without fusion to the metallic state, are also called forges. Forges are required of various dimensions, and are often adapted to special uses. The common blacksmith's F is a good representative of the smaller forges. It consists of a hearth in the platform from 2 to 2½ feet high, on which a fire of fine coal is kindled. A hood of sheet-iron above the fire prevents the escape of smoke and gases into the room. A pair of large bellows, or a blowing-apparatus, worked by a lever or treadle which the smith can operate while tending his fire, opens by means of an iron nozzie through the back wall of the F into the fire. A trough filled with cold water stands at the end of the hearth in which the tongs and heated iron may be cooled, and which serves also for tempering articles of steel. Near the hearth stands the anvil on which the leated iron is hammered. These, with the necessary hammers, raspe, punches, drills, vices, &c., constitute the outfit of the forge. The feel may be charcoal, bituminous coal, coke, or anthracite. It should be free from sulphur, as this has an injurious effect on the iron; for this reason hard-wood charcoal is an excellent material, though bituminous coal is very generally used. Portable forgos, constructed of iron and containing within small space the bellows and water-trough, are used in many workshops; and from the facility with which they can be removed from one place to another, are well adapted for use in the army and on lines of public works. For forging heavy articles, as anchors, wrought-iron shafts for counterfeiting.

\*\*Porget\*\* in Messachusetts, a post-village of counterfeiting, are predicting, to remit; to pardon, as an occan-steamers, &c., powerful machinery is required, and the proper in the

adapted to the nature of the work to be done. -- Morrison's steam-hammer (Fig. 1046), lately introduced into



this country, and with which a bar of iron can be forged this country, and with which a bar of iron can be forged of any size or thickness, is one solid wrought-iron hammer bar, piston-head and head for hammer face forged solid, with the bar passing through both ends of the cylinder, prevented from turning by the upper cylinder head. No guides below the cylinder. Slide-valve balanced. Double-acting hammers of all sizes, taking steam above and below the piston, with self-acting valve gear and hand movement; can be changed at will while in operation, thus affording complete control over its movements. Hammers of 2000 lbs. and under have one upright only: those over this size, two. In pudding iron. right only; those over this size, two. In pudding iron, when the mass of cast-iron has been sufficiently purified in the furnace by burning out its carbon and other impurities, it is placed under the heavy forge-hammer (Fig. 1046), which squeeses out the liquid size and forces the softened particles of iron to cohere into a continuous softened particles of iron to cohere into a continuous oblong mass or bloom. When iron is extracted from rich ores without first being converted into cast-iron, the forge-hammer is used to force the spongy mass of reduced ore into a compact bar of malleable iron.—See Iron.—c. a. To make out of stone, wood, or metal; to frame, construct, or fabricate.—To form by heating and hammering; to beat into any particular shape, as a metal.—To make by any means.—To make falsely; to counterfeit, to feign, as a signature.—To make in the likeness of something else.—s. To commit forgery; to counterfeit.

(Nast.) To move heavily and slowly, as a ship after the salis are furled; to work one's way, as one ship in outsailing another; — used especially in the phrase to forge ahead.

forge ahead.

Forger, s. One who forges; one who makes or forms.
One who counterfeits; a falsifier.

Forgery, s. Act of forging; act of falsifying; the crime of counterfeiting; that which is forged or counterfeiting.

crime of counterieting; that which is lorged or counterfeited.

(Law.) The fraudulent making or alteration of any record, deed, writing, instrument, register, stamp, &c., to the prejudice of another man's right. Most, and perhaps all, of the States in the Union have passed laws making certain acts to be P., and the national legislature has also enacted several on this subject; but these statutes do not take away the character of the offence as a misdemeanor at common law, but only provide additional punishment in the cases particularly enumerated in the statutes.

Forget', v. a. [A.S. forgitan, forgytan—for, and getan. See Gzz.] To lose the remembrance of; to let go from the memory; not to remember; to slight; to neglect. Forget'ful, a. A. Put fo forget; easily losing the remembrance of; unmindful; negligent; heedless; careless; neglectful; inattentive: causing to forget; oblivious.

Forget'fully, adv. In a forgetful manner.

offence or debt; to overlook, as an offence, and trest

offence or debt; to overlook, as an offence, and trest the offender as not guilty.

Forgive'meas, a. Act of forgiving; the pardon of an offender; the pardon or remission of an offence or crime; disposition to pardon; willingness to forgive: remission of a debt, fine, or penalty.

Forgiv'ing, a. Disposed to forgive; inclined to overlook offences; mild; merciful; compassionate.

Forgiv'ing, a. Disposed to forgive; inclined to overlook offences; mild; merciful; compassionate.

Forgiv'ing, a. Disposed to forgive; property in the forgive.

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Forgiv'ing, a. Disposed to forgive; mildied, a to the forgive of the Liland of lachia, and at the N. side of the mouth of the Bay of Naples; pop. 7.000.

Forisfamnilia'tlom, n. [Lat. fori, without. familia, family.] (Eng. Law.) The separation of a child from the family of his father. A child is said to be forisfamiliated, either when he marries or when he receives from his father a separate stock, the profits of which are eujoyed by himself, though he may still reside with his father, or when he goes to live in another family with the consent of his father. The same result is also brought about when a child renounces his legatima, i. a, his legal share of the father's free movable property due to him on the death of the latter.

Fork, m. [A. 8. forc; L. Ger. forke; Du. cork; Dan. fork, a pitchfork; Lat. furca, a two-pronged fork, a stake; probably from fore; Sans. bbri, to bear, to carry. An instrument for lifting and carrying various substances; an instrument divided at the end into two or more points or pronga, and used for lifting or pitching anything.—Something resembling a fork; a point; a branch or division.

(Hist.) The instrument used at table is only about three centuries old. The Greeks, Romana, and other ancient nations knew nothing of F. They had large

anything.—Something resembling a tork; a point; a branch or division.

(Hist.) The instrument used at table is only about three centuries old. The Greeks, Romans, and other ancient nations knew nothing of F. They had large F. for hay, and also iron F. for taking mest out of pois, but no instruments of the nature of table F. In ancient times, as is the practice still in the Fast, meat was commonly prepared as stews; or if roasted, it was cut into small pieces by a carver, so as to be easily taken in mouthfuls by the guests, who used their fingers and a knife for the purpose. It certainly is a strange fact, that the use of any species of F. at table was quite unknown till the 15th century, and they were then knewn only in Italy, which has the merit of this invention. None of the sovereigns of England had F. till after the reign of Henry VIII.; all, high and low, used their fingers. It was accordingly a part of the etiquette of the table to employ the fingers so delicately as not to dirty the hand to any serious degree; but as even by the best the hand to any serious degree; but as even by the best management the fingers were more or less soiled, it was the custom to wash the hands immediately on the disher being removed from the table,—a custom still practised in some Oriental countries. Hence, in the royal household there was an officer called the Everce or Every, who, with a set of subordinates, attended at meals with basins, water and town! hold there was an officer called the Everter or Every, who, with a set of subordinates, attended at meals with Lasins, water, and towels. The first royal personage in England who is known to have had a F. was Queen Elizabeth; but although several were presented to her, it remains doubtful whether she used them on ordinary occasions. (Mach.) A short piece of steel which fits into one of the sockets or chucks of a lathe, used by wood-turners for carrying round the piece to be turned; it is flattened at the end like a chisel, but has a projecting centrepoint, to prevent the wood from moving laterally.

—pl. The point where two roads meet, or where two rivers meet and unite.

—v. n. To shoot into blades, as corn; to divide into two.

—v. a. To raise or pitch with a fork, as hay, &c.

Forked, (forkt.) a. Opening into two or more parts, points, or shoots; as, forled lightning.

Forked Deer River, in W. Tenvesser, formed by the junction of the N. and S. Forks in lyer co., and flowing S.W., enters the Mississpip from Lauderdale co.

Forked Head, a promontory of N. America, on the S.B. coast of Cape Breton, between Fourchon Hartor and Portland Cove.

S.E. coast of Cape Breton, between Fourchon Harbor and Portland Cove.
Fork'edly, adv. In a forked form.
Fork'edness, n. Quality of being forked; furcation.
Fork'edness, n. Quality of being forked; furcation.
Fork'edness, n. The head or point of an arrow.
Fork'iness, n. Bate of being forky or forked.
Fork'less, a. That has no fork.
Fork'less, d. That has no fork.
Fork'less, a. Indobase, a post-village of Greene co., at the confluence of the Black Warrior and Tombigbee rivers about 18 miles S. of Eutw.

at the confluence of the Black Warrior and Tombigbee rivers, about 18 miles S. of Eutaw.

Forks, in Pennsylvania, a post-office of Columbia co.

—A township of Northampton co.

—A township of Sullivan co.

Forks of Salmon, in California, a post-village, cap. of Siskiou co., 42 miles S.W. of Yreks.

of Siskton co., 42 miles S.W. of Yreka.

Forks'ton, in Pennsylvania, a post-village and township of Wyoming co., about 100 m. N.E. of Harrisburg.

Forks'ville, in Illinoa, a village of Lake co., about 50 miles N.N.W. of Chicago.

Forks'ville, in Louisiana, a post-village of Ouachita parish, about 15 miles W. of Monroe.

rks'ville, in Pennsylvania, a post-borough of Sul-

livan co. Fork'ville, in Virginia, a P. O. of Mecklenburg co. Fork'town, in Maryland, a village of Somerest co., about 90 miles S.E. of Annapolis. Fork Union, in Virginia, a P. O. of Fluvanna co. Fork'y, a. Forked; opening into two or more parts, should or nomints.

Fork Union, in reposes, and two or more parts, shoots, or points.
For lars, s. [It.] A slow kind of jig.
For lars, in a fertile plain lartice, and province of same name, in a fertile plain lartween the Montone and Ronco, on the Emilian Way, 38



5

m. S.E. of Bologna, and 15 S.W. of Ravenna. Manuf. Silk ribbons and twist, oil-cloth, woollens, wax, nitre, and sulphur. In 1797 F. was taken by the French, who made it the cap, of the dep. Rubicon. In 1860 it was annexed to the kingdom of Italy. Pop. 40,222.

Forlimpo poll, (anc. Forum Popilii,) a town of Central Italy, prov. Forli, 5 m. S.E. of the city of Forli; pop. 5,244.

Forlern', a. [A.S. forlows, from forlown —for, and leaven, to pass, to go away, to depart. See Lora.] Deserted; stripped or deprived; left without resource; destitute: abandoned; formaken; solitary; friendless; wretched; misarable.

Forlern-hope. [A.S. forlown, left without resource, hope, hope.] (Mil.) A body of men selected to attempt a breach, or to lead in scaling the walls of a fortress. The name (which in the French enfants perdus is even more expressive) is given on account of the extreme danger to which the leaders of a storming-party are necessarily exposed. As, however, the honor of success is proportionate to the peril of the undertaking, there is ordinarily no lack of volunteers for this ardious service. The forlow-hope is called by the Germans Die verlorsen Photos.

Foster.

\*\*Perma, n. [Fr. forme; Lat. forma; Gr. morphi; O. Ger. framian, to make; probably allied to Heb. bara, to cut, to carve, to form, to produce.] The manner and mould in which anything is presented to our ideas of conception; mould; contour; external appearance of a body; the conformation or make; manner of arranging particulars; disposition of particular things; model; draught; pattern.—Beauty; elegance; splendor; dignity.—Regularity—method; order.

the conformation or make; manner of arranging particulars; disposition of particular things; model; draught; pattern. — Beauty; elegance; splendor; dignity.—Regularity; method; order.

(Phys. and Fine Arts.) The shape and external appearance of a body; the figure of the same as defined by an agies or lines, or that manner of presenting itself to the eye peculiar to different bodies; as, the form of a circle, the forms of a square, the form of the human body.

(Laus.) A rule to be observed in legal proceedings.

A prescribed or settled mode; a stated method; established practice; system; as, forms of rhetoric, forms of government, logical form, forms of prayer, &c.

Empty show; semblance; ceremony; formality; as, a mere matter of form. — Likeness; image; manner.

"By form of live and light, "Tax, seen, became a part of sight."—Byrom.

(Print.) An assemblage of types, composed and arranged in order, disposed into pages or columns, and locked up in a chase ready for the press.

A long seat without a back. — A class; a rank of students. (Dryden.) — The seat or bed of a hare.

—e. a. [Fr. former; Lat. formo, from forms.] To make or cause to exist; to shape, fashion, frame, or mould; to create; to construct; to plan; to scheme; to modify; to arrange; to combine in a particular manner; to contrive; to invent; to make up; to settle by deductions of reason, as an opinion; to model by instruction and discipline, as one's character; to combine; to establish; to compile; to constitute; to enact; to ordain.

—e. m. To take form.

Formmall, a. [L. Lat. formalis, from forma.] Relating

To take form e. s. To take form. "or mal, a. [L. lat. formals, from forma.] Relating to outward form; external; according to form; agreeable to established mode; regular; methodical; strictly ceremonions; precise; exact to affectation; done in due form or with solemnity; express; having the form or appearance without the substance or essence; external;

able to established mode; regular; methodicul; strictly ceremonious; precise; exact to affectation; done in due form or with solemnity; express; having the form or appearance without the substance or essence; external; constituent; proper; essential.

Fermal'dehyde, or Ferm'ie Al'dehyde, a. (Chem.) An aldehyde is an alcohol from which a portion of its hydrogen has been removed, and from this, by a further chemical change, an acid can easily be produced. The different aldehydes are named from the acids into which they change; hence, the one which yields formic acid by its conversion is named F. This substance is a derivative of methyl or wood alcohol, from which it is easily produced. If wood alcohol heated in contact with platinum over a wick of an ordinary spirit lamp, F is given off as a vapor. If the lamp be extinguished after the platinum has become heated to a cherry red, the latter will continue to glow as long as any alcohol remains, the generation of F. being continuous. F has been used in solution for come years in medical museums for the preservation of anatomical specimens, for which purpose it is considered much superior to alcohol. The solution is known under the name of formalise, and usually contains about 40 per cent. of F. The vapor of F. has recently been introduced as a disinfectant to replace sulphuric fumigation, which has long been objectionable from its injurious effects on furniture and clothing, it causing change of color, tarnishing of metallic surfaces, &c. F. is free from these injurious qualities, is a powerful germicide, and is strongly penetrative. Like sulphurous acid, it is irritating to the lungs, but not to the same extent; and while the femes of sulphur are slow in dispersing, those of F. quickly disappear. For these reasons it is being introduced for disinfecting purposes. At a meeting of the American Public Health Association, in September, 1896, two lamps for the generation of F. were shown. One of these, presented by Dr. Robinson, professor of chemistry at Bowdoin College

of about 3,000 cubic feet capacity, having three large windows with very loose sashes—an unfavorable arrangement, as the gas resulty escapes through small crevices. In about three hours and a half the evaporation of about two quarts of alcohol resulted in the complete sterilisation of diphtheria and typhoid cultures, and of a look big, including capacity in the complete sterilisation of diphtheria and typhoid cultures, and of about two quarts of alcohol resulted in the complete sterilisation of diphtheria and typhoid cultures, and of all parts of clothing, including seams, insides of pockets, c., in every part of the room. Typhoid bacilli, which had been buried half an inch deep in sand, were found to be destroyed. Cultures of typhoid and diphtheria germs which were imbedded in bed clothing, pillows, and mattresses, were found to be dead after seven hours, two quarts of alcohol being used. In the other method, a lamp burning wood alcohol is used, with a piece of platinized sheet ashestos at the top of the wick. The lamp is burned until the asbestos is red hot, and then extinguished, the gas being generated as before. For ordinary purposes the formaline solution may be used for washing walls or furniture, or may be applied as a spray. It is very volatile and will quickly evaporate into the room, though perhaps not with sufficient rapidity for deep penetration of clothing. Captain Weaver, health officer of Norristown. Pa., has used formaline freely for several years in funigation, and with great success, finding its power remarkable in the destruction of the germs of disease. F. is considered much more efficient than formaline on account of the greater strength and penetrating power of the gas pro-

with great success, finding its power remarkable in the destruction of the germs of disease. F. is considered much more efficient than formaline on account of the greater strength and penetrating power of the gas produced by the vapor lamp.

For'malist, m. Quality of being formal; formality.

For'malist, m. Quality of being formal; formality.

For'malist, m. [Fr. formalist.] One who observes forms; one who esteems the form of a thing more than the thing itself, through narrow-mindedness.

Formalist, m. [Fr. formalist.]

Quality of being formal; the practice or observance of forms; ceremony; mere conformity to customary modes; established order; rule of proceeding; mode; method; order; decorum to be observed; customary mode of behavior; conventional rule.

For'malize, m. a. To modify; to formulate.

— m. To affect formality.

For'malizer, m. A formalist.

For'malizer, m. A formalist.

For'malizer, m. (Law.) See In Forma Paupern.

For'malizer, m. (Law.) See In Forma Paupern.

For'malizer, m. [Fr.; L. Lat. formatio.] Act of creating or causing to exist; the operation of collecting things together, or shaping and giving form.—Generation; production; mauner in which a thing is formed.

Formalitions, Seeolog'ical. A term used in speaking of certain large groups of rocks which form parts of geological strats. The geological record is usually classified into five main divisions: (1) The Archean or Azole; (2) the Primary or Paleozoic; (3) the Secondary or Mescacic; (4) the Tertiary or Cainozoic; and (5) the Quaternary, or Recent Periods. These great divisions are further separated into systems, each system into formations, each formation into groups, and each group into single zones or horizons. The word formation, however, is used in a wider sense than this, and has been variously applied by geologists to different rock groups, now to the main divisions above named, now to smaller groups of stones, now to rocks of special kinds, as clay-alters, and stones, limestones, &c. The oldest stratified formations are masses of crystalline schistese rocks which lie beneath the carliest fresil-bearing formations, and belong perhaps to widely different geological periods. Their wide separation in time from the rocks that rest on them is shown by their strong unconformability to all the latter formations. They are everywhere crystalline in condition, occur in crumpled, often vertical, beds, and yield much of the materials out of which the later formations were made. In the U. S. they include the thick strata known as the Laurentian. These contain the problematic Exoson (q. v.), together with beds of graphite, limestone, and iron ore, from which it has been deduced that they represent a period in which life existed, though this is extremely doubtful. Above them, in the Lake Huron represent a period in which life existed, though this is extremely doubtful. Above them, in the Lake Huron region, lie beds of slate, quartz, limestone, &c., 10,000 to 20,000 feet thick, which have received the name of Huronian. No fossils have been found in them; and, though seemingly much younger than the Laurentian rocks, they are classed with the Archean formations.

though seemingly much younger than the Laurentian rocks, they are classed with the Archæan formations. All the older sedimentary formations bearing remains of organic life are classed as Primary or Paleozoic. They extend to the top of the Permian system, and include the Cambrian, Silurian, Devonian, Carboniferous, and Permian. The Cambrian rocks of North America are divided by geologists into three formations: (1) the Acadian, a mass of grey and dark shales with some andstones of 2,000 feet in thickness, and (2) the Potsdam, which attains a width of 5,600 in Newfoundland, but thins away westward and southward to a thickness of about 300 feet. This formation is rich in early forms of animal life. The Silurian system in the United States and Canada spreads over a vast territory, and is divided into the following formations. Lower Silurian: (1) Canadian, (2) Trenton, embracing limestones which are rich in fossils. Upper Silurian: (1) Niagara, (2) Salina, (3) Lower Helderberg. These are composed of andstones, limestones, and shales, and contain, in addition to many species of trilobites, mollusks, &c., the earliest forms of fish which occur in the upper formations. Insects also make their first appearance in the Silurian rocks.

The Devonian System of the United States and Canada is divided into Lewar and Harnes.

the Silurian rocks.

The Devonian System of the United States and Canada is divided into Lower and Upper Devonian, and comprises a number of formations, of which the Portage and Chemung rocks are from 2.000 to 3,000 feet thick in the Catakill Mountains and thicken to 5,000 or 6,000

feet along the Appalachian region. They possess some characteristic genera of fish. The Upper Devonian of Canada yields a vast arenaceous deposit termed the Gaspé Sandatones, of over 7,000 feet in thickness, which contains abundant plant remanins, the oldest of the terrestrial floras of any Importance. In these ferms and tycopods largely predominate; there are a few confers, and from a locality on Lake Eric a fragment of dicotypical control of the cont ledonous wood has been described, the oldest in exist-ence. These vegetable layers are thick enough in some localities to form thin seams of coal—the pioneers of the coal formation.

ence. Insee vegetable seyers are tince enough in some localities to form thin seams of coal—the pioneers of the coal formation.

It is in the Chemung, the upper formation of the Devonian system, that the mineral oil and gas of Pennsylvania are chiefly found, the drills descending to a course sandstone called the oil-sand, which is so open in texture that a vast amount of oil can be held in the space between the grains. Next above the Devonian lies the great Carboniferous system, inportant from its vast accumulations of coal. Its formations include the Subcarboniferous (the Mountain or Carboniferous limestone), and the Carboniferous, the coal bearing strate proper. The sulcarboniferous is noted for extensive limestones over the Mississippi basin, and for sandstones and shales, with little limestones with this shales and sandstones over the Mississippi basin, and for sandstones and shales, with little limestones become over 2,040 feet in thickness, while in southwestern Illimois they have a thickness, while in southwestern Illimois they have a thickness, while in southwestern Illimois they have a thickness, of 1,200 to 1,500 feet. Upon them lie the formations of the coal measures, whose basic formation in the anthracite region of Pennsylvania is a conglomerate of silicious gravel and sand. This extends through the Mississippi valley, though thing out westward. Upon it lies the coal formation, consisting of sandstone, shale, clay and limestone, with occasional strats of coal, and commonly beneath them a bed of fire clay. Of the total thickness of the formation about 1 foot in 40 is usually good coal, though in the more productive parts the proportion rises to 1 foot in 20. The life of this period was one of dense forests or jungles of cryptogamous plants, consisting of ferns, equiseta and lycopods, with some examples of conifers. Animal life included nearly all the forms found in the earlier periods, together with the first of the land vertebrates, frog-like latrachians of great bulk.

Lyng upon the upper level of

great bulk.

Lying upon the upper level of the coal formation are the Permian beds, the upper level of the Salacozoic geological division, and classed by some authors as a portion of the Carboniferous division. It is identified by its fossil remains, being otherwise not clearly distinguishable from the formations below. Among these are the earliest of the reptiles, the outcome of the batrachlans of the lower beds, and the beginning of this great reptilian domain of life.

The breavoic are of geology comprises three systems.

are the earliest of the reptiles, the outcome of the barrachias of the lower beds, and the beginning of this great reptilian domain of iife.

The Brescoic age of geology comprises three systems of strata, the Triassic, Jurassic and Cretaceous, which are divided into numerous formations, differing considerably in different parts of the earth, as indeed is the case with all the geological systems. The Triassic rocks of the U.S. are mostly sandstones, conglomerates and shales, with occasional thin beds of limestone and some coal. The reptilian fauna increase here greatly in number and variety, while the earliest mammals make their appearance, in the form of insectivorous marsupials. The Jurassic formation, which succeeds the Triassic, is distinguished by its buge dinosaurian reptiles, creatures with short fore limbs, whose habit was to stand erect on the hind limbs and tail, yet some of which were of immense size. From them the bude are supposed to have evolved, their earliest known forms appearing in this geological age.

The Cretaceous formation, named from its great outcrop of chalk in England, is composed of very varied beds in America, the Lower Cretaceous leing sub-divided by Hill into the Trinity, Fredericksburg, and Washita groups, and the upper by Cook into the Dakota, Colorado, Montana, Laramie. They present no new features of organic development other than a continued appearance of new reptilian forms, and of the first traces of the higher mammals in what are claimed to be upper Laramie beds. Above the Cretaceous supears the third division of geological time, the Tortiary, made up of three important formations, the Ecoene, Miocene, and Pilocene. These are distinguished as being the formations in which mammalian life attained its great development, passing upward from low types to those that lie just below man in organization. The rocks vary greatly in character, there being no strata of almost continued appearance of the distinuent and uniformity, as in the Silurian age, but a diversity much like that o

The Quaternary beds, which overlie these, are strictly The Quaternary beds, which overlie these, are strictly modern in deposition, and contains indications of human life throughout most of their extent. Of their formations the most important is the glacial—beds of ground, clay, &c., evidently due to a recent great extension of the polar ice and its slow withdrawal. Above these lie the Champlain formation, the strata that succeeded the vanishing of the polar ice, and the Recent, distinguished by the presence of manumals of existing species, and by the presence of manimals of existing species, and the soils which form the present agricultural surface of

Forma'tive, a Giving form; having the power of

Forma'tive, a. Giving form; having the power of giving form; plastic; serving to form.
(Gram.) Derivative.

—a. (Gram.) That which serves merely to give form, and is no part of the radical, as a pref.z or termination used in forming a word or a class of words.

Forma'er, a. He who forms; a maker; an author.

—That which gives form; a pattern; a dub-around which the paper of cartridges is lapped.

For mer, a, comp. deg. [A. S. form, early, first, with comp. sign er.] Prior; anterior; previous; antecedent; before in time; preceding another or something else in order of time; as, a former discourse.—Past, and frequently ancient; long past; as, in former times.—Preceding; mentioned before the other, as between two "Of wit and beauty, we may say, that the form

Formerly, adv. In time past; either in time immediately preceding, or at any indefinite distance; of old; heretofore; anciently; in days of yore.

Formes, Karl Johann, singer, born at Mühleim, on the Bluine, Aug. 7, 1818; was engaged in the Imperial Theater at Vienna, as primo basso; visited Bussia and Spain, and appeared in the Italian opera at Covent Garden, London; sang at the New York Academy of Music in 1857, achieving the same success as in the European capitals. His principal parts were Scrutton. European capitals. His principal parts were Sarastro, Figuro, Bertram and Plunkett. During the later portion of life he resided in San Francisco, where he died in

orm'ful, a. Productive of forms or images; imaginative.

For miate. miate, n. [Fr. fowrmi; Lat. formics, an ant.] m.) A salt formed by the union of formic acid with

(Clem.) A salt formed by the union of formic acid with a base.

For'mica. a. Resembling an ant (formica).

For'mica. a. (Zoil.) One of the Formica. (q. v.).

For'mica. a. (Zoil.) One of the Formica. (q. v.).

For'mica. a. (Zoil.) One of the Formica. (q. v.).

For'mica. a. (Zoil.) One of the Formica. It derives its name from the fact that it was first obtained by distilling the red ant (Formica ru/a), which when irritated ejects an acid liquor. It is a burning liquid of an irritating odor. It is exceedingly corrowive, producing a sore if dropped upon the skin. Below 32° it crystallizes in brilliant scales. It boils at 221.5°, yielding an inflammable vapor burning with a pale blue finne. F. A. is found in the leaves of stingling-nettles, and is prepared in the laboratory by the oxidation of various organic substances, particularly by distilling starch with binoxide of manganese and sulphuric acid; also by distilling dried oxalic acid, with enough glycerine to cover it, in a water bath, when it is resolved into carbonic acid and F. A. With the metals F. A. forms a series of soluble saits called formicles. Sp. gr. of F. A. at 32°, 1-2227.

Form. HCO.OH.

Formica tiom, s. [Fr., from Lat. formicatio.] The creeping sensation upon the skin, resembling the crawing of auts over different parts of the lody.

Formiche. (for-métal.) the name of two small islands in the Mediterranean, of m. S. W. of Trupani, on the W. coast of Sicity.—A group in the Mediterranean, off the S. E. point of Elba.—Another group in the Mediterranean, comprising Monte Cristo, Giglio, &c.

Formidability, n. The quality of exciting fear or apprehension.

Formidability, n.

apprehension.

Formidable, a. [Fr., from Lat. formidabilis, from formidable, a. [Fr., from Lat. formidabilis, from formidar, to fear — formido, fear, dread.] Exciting fear or apprehension; impressing dread; adapted to excite fear and deter from appreach, encounter, or undertaking; dreadful; fearful; frightful.

Formidablemeess, a. The quality of exciting terror or dread. — The thing cansing dread or apprehension.

Formidably, adv. In a manner to excite fear.

Formidable, a. town of Brazil, in the province of Minad-Gerace, abt. 100 m. W.N.W. of Minas-Novas; pop. abt. 1,500.

1.500.

1,500.

Formagmy, (for-mên'ye.) a small village of France, 12 m. from Bayeux. Here, in 1450, a battle was fought between the French and English, who were defeated and obliged to evacuate Normandy.

Formaless, a. Without determinate form; shapeless; wanting regularity of shape.

Formalesses, s. The condition of being without determinate form.

determinate form. determinate form.

Forme'sa, (Chin. Tue-wan, or "Terrace Bay,") an island
in the Chinese Sea, belonging partly to China, bet. Lat.
22° and 25° 30° N., and Lon. 120° 30′ and 122° E., abt.
80 m. from the Chinese coast, from which it is separated
by the Channel of Foh-kien (sometimes called Strait
of Formosa), and 170 m. N. of Lusun, the chief of the or Formosa, and 170 m. N. of Luzou, the chief of the Philippine Islands; length, N. to S., abt. 250 m.; breadth, in its centre, abt. 80 m.; the area is estimated at 14,000 sq. m. Desc. A chalu of mountains runs through the island in its entire length, forming, in general, the barrier between the Chinese on the W., and the independent natives of the unexplored country on the E. side. On many of its peaks snow remains during the most part of the summer; and Humboldt has supposed that a portion of it reaches an absolute elevation of 12,000 feet. It exhibits distinct evidence of former volcanic action, and sulphur, naphtha, and other volcanic products are abundant. Some parts of the coast present bold headlands; but all the W. shore is flat, and surrounded with iands; but all the W. shore is flat, and surrounded with rocks and shoals. Its harbors, which were formerly good, have now become nearly useless, owing to the encreachments of the land upon the sea. Kelung, at its N. extremity, is the only good port. Soil, highly fertile and productive, so much so indeed that this island fertile and productive, so much so indeed that this island has long been familiarly known as the granary of the Chinese maritime provinces. All the large plain of the S. resembles a vast cultivated garden. Prod. Rice, sugar, camphor, tobacco, wheat, maize, millet, truffles, regetables, and the choicest of Asiatic and European fruits; pepper, aloes, green tea, cotton, hemp, and silk are also important articles of cultivation. Zell. The sugard, tiger, wolf, &c., are found in the more impense.

rance traces of the interior; the domestic creeds of animals, game, &c., are abundant. Airs. Gold is believed to impregnate the soil in the E. part of the island; but the chief mineral deposits are coal, salt, and sulphur. Mens. Slika, woollens, &c. The trade is mostly in the hands of Chinese and British merchants, who also own all the ahipping. The principal article of import is optum. Inhab. The natives bear no resemblance to the Chinese; Ishāb. The natives bear no resemblance to the Chinese; but they have an apparent alliance with the Malay or Polynesian race.—Hist. The Japanese, Spanish, Portuguese, and Dutch have been successively masters of the island. The latter were (1662) expelled by the Chinese. The Japanese invaded F. in 1874, and the French seized the port of Kelung ten years later, but soon withdraw. At the close of the Chino-Japanese war (1895) Japan claimed and received F. as a part of the indemnity demanded from Chine.

demanded from China.

\*\*Oprime\*as, one of the Bissagos islands, W. Africa; Lat. 119 30 N., ion. 169 10' W.

\*\*Oprime\*as, in \*\*Africa\*\*: A village of Cole co., on the Missouri River, abt. 10. m. below Jefferson city.

\*\*Porime\*as, (E40.) in Africa. See Benni, (River of.)

Forme'sas, (ares,) in Arrica. See Berlis, (arrica or.)
Forme'sus, bishop of Porto, in Italy, succeeded Pope
Stephen V. in 891. He condemned Photius, excommunicated the Emperor Lambert, duke of Spoleto, and
nominated in his place Arnoul, king of Germania. D.
896.—The fiery Stephen VI., his successor, had his body
disinterred, in order to put him on his trial. He was
restored to his grave in 898, under John IX.
Formula, n.; pl. Fornula, or Fornulas. [Lat. dim.
of forms, a form or shape; Fr. formula.] A prescribed
form: a rule: a model.

form; a rule; a model.

(Eccl.) A written confession of faith.

(Algeb.) The expression of a quantity in algebraical symbols. Thus,

 $\gamma s(s-a)(s-b)(s-c)$ 

is the formula for the area of a triangle whose sides are a, b, and c, and semi-perimeter s. Every formula may be regarded as an abbreviated rule for the solution of a problem, or as an abbreviated enunciation of a theorem.

(Chem.) An expression of the composition of a sub-stance by means of symbols. The formula of bodier may be either empirical or rational. An empirical seases by means or symbols. The formula of bodies may be either empirical or rational. An empirical formula is one giving the elements contained in a body, without reference to their arrangement. For instance, the empirical formula of crystallized sulphate of copper would be Cu0,8H<sub>5</sub>; but the rational formula showing its composition, would be Cu0,80,5aq. Formula are the most convenient way of expressing the decompositions taking place when certain substances are mixed, a few lines of symbols serving for narra of axulansion.

inea of symbols serving for pages of explanation.

(Med.) The manner or style in which any article is prepared. A prescription is a formula. The term, however, is chiefly confined to the preparations in the Pharmacopoia.

ormularis'tie, c. Pertaining to the act of putting

Formularis'ile, a. Pertaining to the act of putting into prescribed form.

Formulariss'ilon, m. The act of arranging and setting forth in a prescribed form.

Formulary, n. [Fr., from L. Lat. formularis, a legal practitioner to draw out writs by form, from Lat. formula.] A prescribed form; a formula.—A book containing stated and prescribed; a formula.—A book containing stated and prescribed; ritual.

—a. Btated: prescribed; ritual.

Formulate, v. a. To express by a formula; to put in a definite form of statement.

a definite form of statement.

For'mulise, v. a. Same as FORMULATE, q. v.

For'muyle, n. (Chem.) The basic hydrocarbon of formic acid. Form. C<sub>2</sub>H.

For'max, n. [Lat., a small furnace.] (Astron.) A constellation of the southern hemisphere, named by Lacalile, and situated in close proximity to Cetus, or the Sea-Monster. It is one of the recognized constellations, but contains no stars of the first or second magnitude.

For'nicate, For'nicated, a. [Lat. fornicatus, from fornix, an arch or vault.] Vaulted; arched.

formix, an arch or vault.] Vaulted; arcneu.

(Bot.) Arching over; overarched.

"Thou shalt not formour thesely." — Hen. v. m.

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"Thou shalt not formour thesely." — Hen. v. m.

"Thou shalt not formour thesely." — Hen. v. m.

"To swear falsely; to commit perjury.

Formwear'er, n. One who rejects on oath; one who is perjured; one who swears a false oath.

Formwear'er, n. One who rejects on oath; one who is perjured; one who swears a false oath.

Formwear'er, n. One who rejects on oath; one who is perjured; one who swears a false oath.

Formwear'er, n. One who rejects on oath; one who is perjured; one of formwear.

Formwear'er, n. One who rejects on oath; one who is perjured; one of formwear.

Formwear'er, n. One who rejects on oath; one who is perjured; one of formwear.

Formwear'er, n. One who rejects on oath; one who is perjured; one oath; one oath an unmarried woman.

Fornication, n. [Fr., from Lat. fornicatio—forniz, an arch, a vault, also a brothel, from their anciently being in autherranean vaults.] (Arch.) The formation of an architecture.

The unlawful conversation of a married man with an

unmarried woman.

(Script.) Adultery; incest; idolatry.

For micator, a. [tr. fornicatur; L. Lat. fornicator.]
An unmarried person, male or female, who has criminal intercourse with the other sex; also, a married man who has sexual commerce with an unmarried woman.—

A lamit person. un idolator.

A lewd person; an idolater.

\*Or'micatrees, n. [Fr. fornicatrice; Lat. fornicatrix.] An unmarried female who has unlawful intercourse with the other sex.

oourse with the other see Forax, q. r.

\*\*Per'res, a perliamentary horough and market-town of Scotland, co. Moray, 3 m. E. of the River Findhorn, and 11 W. of Eigin. The town is about a mile in length.

trable tracts of the interior; the domestic breeds of | Forsak'emmess, n. State of being forsaken, left, or abandoned.

abandoned.
Forsak'er, n. One who forsakes, quits, or abandons.
Forsak'iug, n. Act of desertion; dereliction.
Forsoch's, adv. [A.S. for, and soid, sooth, truth.] Is very truth: in fact; certainly: very well. (Chiefly used in contempt or irony; but once a word of honor in addressing august).

very truth: in fact; certainly; very well. (Chiefy need in contempt or irony; but once a word of honor in addressing women.)
Form ter. Josann Brinhold, a German traveller and naturalist, E. in Direction, Prussis, 1729. In 1753 he became pastor at Nassenhuben, near Dannig; but he seems to have devoted most of his time to the study of mathematics, natural philosophy, natural history, and geography. In 1765 he accepted an offer made to him by the Russian government, to inspect and report upon the new colonies founded on the banks of the Volga; but his irritable temper soon involved him in difficulties with the Russian government; and in the following year he repaired to England, where he became teacher of natural history, and of the French and German languages. In 1772 he received the offer of naturalist to Captain Cook's second expedition to the South Seas. In the course of the voyage, his temper seems to have frequently brought him into unpleasant collision with the other officers. In 1776, in association with his son, he published a work (in Latin) on the botany of the expedition; and in 1778 in Observations faitz dans un logage autour du Monde sur la Géographie Physique. I Historie Naturelle, et la Philosophie Morale appeared. In the latter year, he returned to Germany, and was soon afterwards made Professor of Natural History and Mineralogy at Halle, where he D., 1788. In addition to the works mentioned, he published De Bysso Assignorum, 1775; Zoōlogia heica, 1781; Geschichted der Entletchengen und Schiffighr. where he b., 1700. In addition to the works mentioned, he published De Bysso Astiquorum, 175; Zošlopia hdica, 1781; Geschichte der Entdeckungen und Schiffehrten im Norden, 1784, (translated into English and French,) &c.

ten in Norden, 1784, (translated into English and French,) &c.
FOURTEY, JOHANN GEORG ADAM, commonly known as GEORG P., soon of the above, a German traveller and naturalist, B. at Nassenhuben, near Dannig, 1754. When only 17 years of age, he accompanied his father in Captain Cook's second voyage; and shortly after his return, he published, with the assistance of his father, an account of the expedition. His book was well received by the public, and was translated into French, German, Swedish, and other languages. Humboldt speaks of this work and of its author, "my celebrated teacher and friend, George Forster," in the highest terms in the Cosmos, (see vol. ii. p. 437, Bohn's ed.) F. having returned to the continent, was made Profesor of Natural History at Cassel, and afterwards at Wilna. Having there no access to books, in 1788 he gladly accepted the office of librarian to the Elector of Mayence. After Mayence was taken by the French in 1782, P., who had become an ardent republican, was sent as a deputy to Paris, to request the incorporation of Mayence with the French republic. While he was in Paris on this mission, the Prussians retook Mayence, and F. lost all his property results for the sent and a se French republic. While he was in Paris on this mission, the Prussians retook Mayence, and F. lost all his property, including his books and manuscripts. D. 1794. Besides numerous translations, and the account of Capain Cook's voyage, his most important works are, Kleine Schriften, ein Beitrag ser Länder- und Fölkerkunde; Naturgeschichte und Philosophie des Lebrus (8 vols. Berlin, 1789-1797); and Ansichten vom Niedershein, rem Brabant, Flandern, Holland, Bupland, und Frankreich (3 vols. Berlin, 1791-1794). His widow, the daughter of Heine, but perhaps more widely known as Therese Huber, published a collection of his Letters, in 2 vols, in 1828-1829; and a complete edition of his works, in 9 vols., was published by his daughter and Gervinus, in 1843.

1843.
For \*\*sterite, n. (Min.) A silicate of magnesia found at Vesuvius, in orthorhombic crystals of a vitreous lustre, and white, whitish, or greenish color. Sp. gr. 3-21-3-33. Comp. Silica 42-86, magnesia 57-14.

Formwear, (for-store), v. d. (imp. Foasworr; ps. rossworr), [A.S. formerien, from for, and secrics, to swar; Ger. serackebren.] To reject or renounce upon oath; to abjure; to deny upon oath.— To swear faisely; to perjure one's self. (With reciprocal pronoun.)

"Thou shalt not foreseer theself."— Hett. v. 33.

Forsworm', pp. of Forsware. Renounced on oath; perjured.
Forsworm'meess, st. State of being forsworm.
St. George Chattahoochee and Etowah rivers, and Vickery's and some other small creeks. Surface, varied; sold, generally fertile. Miss. Gold has been found is considerable quantity in the vicinity of Sawney's Mountain. Silver and copper also abound, and diamonds, as well as other precious stones, have been found. Cap. Cumming. Pop. (1880) 11,155.

A post-village, cap. of Monroe co., about 25 m. N. W. of Macon.
Forsworth', in Michigan, a nost-township of Margnetta.

Forsyth', in Michigan, a post-township of Marquette

county.

Forsyth', in Missouri, a post-village, cap. of Taney co, on White river, about 150 m. S.S.W. of Jefferson City.

Forsyth', in North Carolina, a N. W. central co, area about 372 sq. m. Ricera. Yadkin river and Mudicy creek. Surface, diversified; soil, fertile. Cap. Winston.

Digitized by GOOQI

Fort Boome, in Kentucky, an ancient fort, now the site of Booneville

FORT

of Booneville.

Fort Bragg, in California, a post-town of Mendocino co, on the Pacific coast, 11 m. N. of Mendocino. Leading industry, lumbering. Pop. (1890) 945.

Fort Brameh, in Indiana, a post-office of Gibson co. Fort Bridg er, in Wyoming, a post-office of Unita co, on the Beach Fork of Green river, 10 miles S.E. of Carter Station of the Union Pacific R. R.

Fort Brook, in Florida, at the head of Tampa Bay.

Fort Brown, in Tama. See Brownsville.

Fort Byrd, in Pennsylvania, an ancient fort on the Monongaliela river, at the mouth of Red Stone creek, in Favette co.

in Favette co.

in Fayette co.

Fort Calhoum', in Nebraska, a post-township of Washington co., on the Missouri river, 16 miles N. by W. of Omaha, Pop. (1897) about 1,400.

Fort Car's imer, in Delaware, near the present site of Newcastle, in Newcastle co., on the Delaware; built by the Dutch, about 1860.

Fort Car's well, in North Carolina, one of the old defences of the harbor of Smithfield.

Fort Chad'bourse in Targe a P. O. of Coke co.

Geferces of the harbor of Smithfield.

Fort Chad'bourne, in Texas, a P. O. of Coke co.

Fort Charles, in Virginia, an ancient, fort, built in

1645, near the present site of Richmond.

Fort Chippeway'am, and Fort Wedderburn, two forts of British North America at the W.

extremity of Lake Athabaska.

Fort Chiristia'ma, in Delascare, built by the Swedes

in 1638, near the present site of Wilmington.

Fort Church'fill, in Nevad, a post-settlement and

military depot of Lyon co., on Carson river, about 38 m.

N.E. of Carson City. P. O. at Darron.

Fort Clark, in North Dakota, on the Missouri river,

a few miles below the confluence of Knife river.

Fort Clark, in Rosa, on Lizard river, in Humboldt

a few miles below the confluence of Knife river.
Fort Clark, in Iosa, on Lizard river, in Humboldt co., about 160 miles W.N.W. of Iowa Civ.
Fort Clarke, in North Curolina. See Hatteras.
Fort Climch, in Georgia, a fortification on Amelia Island, abandoned by the Confederates, Feb., 1862.
Fort Clim'tom, in New York, one of the defences of West Point during the War of Independence.
Fort Clyde, in New York, an ancient fort of Montgomery co., near Fort Plain.
Fort Col'lina, in Colorado, a post-town cap. of Larimer co. Pop. (1897) about 2,500.
Fort Col'wille, in Washington, a military post near Col'wille, in Washington, a military post near Colvuille, the cap of Stevens co., a post-village on the Spokane Fails & Northern R. R. Pop. of the village (1897) about 700.

Fort Constitution, in New Hampshire. See Ports

MOUTH.

Fort Cornwal'lis, in Georgia, built by the British

MOUTH.

Fort Cornwal'lia, in Georgia, built by the British near Augusta.

Fort Cov'ington, or French's Mills, in New York, a flourishing post-village and township of Franklin co.

Fort Cov'ington Centre, in New York, a post-office of Franklin to.

Fort Crook, in Nebroaks, a post-office of Scorpe co.

Fort Crook, in Nebroaks, a post-office of Scorpe co.

Fort Crown Point, in New York. See Crown Point.

Fort Crown Point, in New Mortes, built by General Braddock in 1750, on the present site of Cumberland.

Fort Cuma'smings, in New Mortes, a village of Grant co. Here are the remains of a rulned fort.

Fort Dade, in Florida, a village of Pasco co., on the Withlacocchee river, about 170 miles St. of Tallahassee. It was in this vicinity, in December, 1835, that Major Dade, with 110 of his comrades, were overcome by a large body of Indians, and all but one man kill'd.

Fort Dam'ling, in Virgisia, on the James river, about 7 miles below Richmond. Built during the Civ'i War.

Fort D. A. Russell, in Wyonsia, a post-town of

7 miles below Richmond. Built during the Civis War.
Fort D. A. Russell, in Wyomisq, a post-town of Laramie co., 3 m. N.W. of Cheyenne. This is a U.S. post. Pop. (1890) 553.
Fort Day'tom, in New York. See Fort Herrimer.
Fort Day'tom, in New York. See Fort Herrimer.
Fort Deca'tur, in Alabama, a village of Macon co., about 30 miles E.N.E. of Montgomery.
Fort Deff'ance, in Arisona, a P. O. of Augusta co.
Fort Deff'aware, a strong fort, built on a small island in Delaware river, near Delaware City, United States.
Fort Depos'it, in Alabama, a P. O. of Lowndes co.
Fort Des Moines, the old name of Des Moines (q.v.).
Fort Deckinson, in Pennsylvania, an old fort near Wilkesbarre.

FORT DICKINGO, in Pressagrassa, an our ore near Wilkesbarre.

Fort Dodgre, in Iosea, a thriving city, cap. of Webster co., on Dee Moines river and four railroad lines, 85 miles N.N.W. of Des Moines. Coal and building stone abound in the vicinity; there are some local manuf., and the city has a large shipping trade in farm products. Pop. (1887) about 9,200.

Fort Dodgre, in Kansas, a P. O. and military depot on the Arkansas river, about 30 miles below Fort Atkinson.

Fort Dom'elson, in Tensesse, erected by the Confederates during the Civil War, on the Cumberland river. about 1 mile below Dover. Surrendered to General Grant and Commodore Foote, Feb., 1862.

Fort Dum'eam, in Texas, a village and military station of Maverick co., on the Rio Grande at Eagle Pass, about 250 miles W.S.W. of Austin.

Fort Dur'kee, in Pennsylvania, built in 1769, near Wilkesbarre.

Wilkesbarre

Forte (for tip), adv. [It. from Lat. fortia, strong.] (Mas.) A direction to the performer to execute loudly the part to which the word is affixed. It is indicated by the

single letter f. If f is used, the part is to be played or performed fortissesso, very loud.

Forte (fort), m. [Fr. fort; Lat. fortia, strong.] The strong point; a peculiar talent or faculty; that art or department in which any one excels.

Forteum Eny, an inlet of the Straits of Belleisle, on the S.E. coast of Labrador.

Forted, a. Furnished with, or guarded by, forta.

Fort Ed'ward, in New York, a post-town and township of Washington co., on the Hudson river, about 23 miles from Whitehall It contains the ruins of Fort Edward, built in 1755. Pop. of town (1897) about 3,500. It is the seat of the Fort Edward Collegiate Institute.

Fort El'zenburg, in New Jersey, built by the Swedes in 1643, near the present site of Salem.

Fort Er'cerprise, a fort of British North America, about 150 miles N. of the Great Slave Lake.

Fort terie. See Erix (Fort).

Fortesque, Sir John, an English judge and writer on the law, was a son of Sir Henry F., lord chief-justice of Ireland, and was born in Devonshire, 1395. He studied at Lincolns Inn, was called to to the bar, and in 1442 was made chief-justice of the court of King's Bench. He was a principal counsellor at the court of Henry VI., and for his devotion to that monarch he was statanted by the parliament under Edward IV.; and in 1463 he fied, with Queen Margaret and her suite, to Flanders, where he remained in exile several years; during which time he wrote his well-known work, De Laudibus Legem Anglise. Returning to England to join in the struggle for the restoration of the bouse of Lancaster, he was time he wrote his well-known work, De Lossdbus Legems Anglie. Returning to England to Join in the struggle for the restoration of the house of Lancaster, he was taken at the battle of Tewkesbury; but obtained his pardon from Edward, and was allowed to retire to his seat in Gloucestershire. Died 1485.

Forteventura, or Fuertaventura (foo'air-le-vointoo'ro), one of the Canary Islands, in the E. part of the archipelago; area, 758 ag miles. Deec. Hilly, deficient in water, but possessing tracts of great fertility. Lat. 280 42' N., Lon. 14° 1' W.

Fort Fair'field, in Maisse, a post-town of Aroostook co., on the Aroostook river, 150 miles N.E. by N. of Baugor. Pop. (1897) about 3,600.

Fort Fill'more, in New Mexico, a military depot on the Rio Grande, below Doña Aña.

Fort Filsher, in North Carolina, erected by the Confed-

the Rio Grande, telow Dona Aña.

Fort Fisher, in North Carolina, erected by the Confederates during the Civil War, on the R side of Cape Fear river, about 20 miles S. of Wilmington. It was attacked Dec. 18, 1864, by the Union inon-clads under Admiral Porter, who was compelled by the weather to deferactive measures till Dec. 23d. The gun-heat Louisiana, laden with 250 tons of powder, was then towed close under the walls, and exploded, 1.45 A.M., Dec. 24, without weakening the defences. The bombardment, which commenced the same day, was abandoned Dec. 25, when a reconnotering party under Genl. Weitzel pronounced the works too strong for an assault. Land reinforcements under Genl. Terry having arrived, a second bombardment commenced Jan 13, 1865, and the fort was invested in the rear by the land forces. A combined attack, made Jan. 16, resulted in the capture of the fort attack, made Jan. 15, resulted in the capture of the fort

with 1,971 prisoners.
Fort Frank'lin, a fort of British North America, on S.W. arm of Great Bear lake.

Fort Franklim, in New York, a revolutionary stock-ade at Lloyd's Neck, on Long Island.
Fort Fron'tenae. See Kingston, Canada.

ade at Lloyd's Neck, on Long Island.
Fort From'temac. See Kinceron, Canada.
Fort Gage, in New York, an ancient fort, a short distance S. of Fort George.
Fort Gaines, in Alabama. See Monile.
Fort Gaines, in Georgia, a post-town, cap. of Clay co., on the Chattahoochee river, 22 miles S. W. of Cuthbert.
Fort Gaines. now Foar RIPLEY, in Missecota, a post-village of Morrison co., on the Mississippi river, about 122 miles N. of St. Paul.
Fort Gaines N. of St. Paul.
Fort Gain Island. In Colorada a post-vill and military.

Fort Gar'land, in Colorado, a post-vill, and military

Fort Gary, a for trau.

Fort Gary, a fort of British North America, at the junction of the Assimboine and Red rivers, about 40 miles 8. of Lake Winnepeg.

Fort Gary, a fort of British North America, at the junction of the Assimboine and Red rivers, about 40 miles 8. of Lake Winnepeg.

Fort Garton, in California, a former military depot in the N. part of the State, on the Trinity river, about 25 miles 8. by W. of Orleans bar.

Fort Gay, in W. Virginia, a post-rillage of Wayne co.

Fort George, a fortress of Scotland co., Inverness, on a low, sandy peninsuls jutting into the Moray Frith, which it commands. It is esteemed the most complete fortification in Britain, has barracks for 3,000 men, is mounted with 80 guns, was built in 1747, as one of the chain of 3 fortresses to overawe the Highlanda, and has a governor and garrison.

a governor and garrison.

Port George, in New York, an ancient fort, now in ruins, at the S.E. extremity of Lake George.

Fort George, in Oregon, a fort of Astoria in Clatsop co., at the mouth of the Columbia river.

Fort Gib'son, in Indian Territory, a post-village and military dépôt, on the Neosho river near its confluence with the Arkaness river Lat. about 35° 45′ N., Lon. 95° 30′ W. Fort Good Hope, in Connecticut, established by the

Fort Good Hope, in Connecticut, established by the Dutch in 1623, near the present site of Hartford.

Fort Got'tenburg, in Pennsylvania, built by the Swedes on Tinicum Island in 1642.

Fort Gower, in Ohio, a revolutionary fortress, on the Ohio river, at the mouth of the Great Hockhocking.

Fort Gran'by, in South Carolina, a revolutionary fort

Fort Gran'by, in Sount Carossa, a revolutionally solvener Columbia.

Fort Gratlet (gra'she-ot), in Michigan, a military post and city of St. Clair river, adjoining Port Huron, its P. O. Pop. (1894) 2,832.

Fort Grierson (greer'son), in Georgia, a revolutionary fort at Angusta. guita. gitized by GOOGLE

are also frequently erected on the sea coast, for the de-fence of certain positions, and are garrisoned by a small body of troops. Although they do not enclose a space of any great extent, yet they are strongly constructed, and being placed in commanding situations, often form an important line of defence. They are generally quad-rilateral, with bastions or demi-bastions at the angles; an important line of defence. They are generally quadrilateral, with bastions or demi-bastions at the angles; but it depends mainly on the position they occupy, whether they are triangular, square, polygonal, or in the form of a crown-work or star. They consist for the most part of a rampart, surrounded with a ditch and lacks; but in some cases an out-work is constructed for the defence of any side on which it may be more easily assailed. Paris is completely girdled with a chain of carefully planned forta, mostly pentagonal, in the shape of the enceinte, and situated at distances varying from mile to 2½ miles from the inner line of bastions that encircle the city. Cherbourg may also be cited as an example in which a town is effectively protected from attack by sea or land by a chain of detached forts and redoubts, which is doubled on the south-weet side of the town.—In North America, generally, the name was also applied to a trading-post in the wilderness with reformes to the indispensable defences, however slight, against the surrounding savages. It has thus been employed to designate merely a palisaded log-hut—int oasis of civilization of the fessert—and such is generally the origin of the numerous places to which the name F is prefixed.

the name F is prefixed.

Fort Abercroun'bie, in North Dakota, a post-village of Richland co., on the Red River of the North. Now ARERCROMBIE.

Fort Ad'amm, in Massachusetts. See Newfort.
Fort Adams, in Massachusetts. See Newfort.
Fort Adams, in Massachusetts. See Newfort.
Fort Adams, in Massachusetts, a post-village of Wilkinson co, on the Mississippi river, abt. 40 m. 8. of Natchez.
Fort Alamso, in Texas, near San Antonio, in Bexar co. On the 6th of March, 1836, a small garrison of Texass resisted a body of Mexicans, ten times their reases resisted a body or mexicans, ten times their number, and perished to a man, whence it is called the Thermopylis of Texas. It was on this occasion that the oriebrated frontiersman, Davy Crockett, was killed, together with the little band of adventurous spirits who delighted to follow the fortunes of that unique

who delighted to follow the fortunes of that unique and daring pioneer.

Fortaless (forto-la'sa), a city of Brazil, cap of the State of Ceara, at the mouth of the river Ceara; Lat. 3º 43' S., Lon. 38° 30' W. Pop. (1896) 20.000. It was formerly called Carat, or VILLA DO FORTE.

Fort Am'sterdamm, in New York, on the S. point of Manhattan Island. It was built in 1626, and while under British control was called Fort James.

Fort Am'cleent, in Okio, a post-office of Warren co.

Fort Am'cleent, in Okio, a post-office of Warren co.

Fort Am'cleent, in Okio, a post-office of Warren co.

Fort Am'cleent, in Okio, a post-office of Warren co.

Fort Am'neld, in New York, a post-town and township of Washington co, about 67 miles N. by E. of Albany.

Fort Am'meld, in New York, cne of the redoubts of West Point during the Bevolutionary War.

Fort Am'simabolime or Amsimmibolime, in Moviens, a p st-town of Choteau co. Pop. (1890) 684.

Fort Atkinson, in Iosea, a post-village of Winnishie co., about 110 miles N. by W. of Iowa City.

Fort Atkinson, in Fora Sunner, in Kossaz, once a military post on the Arkansas river, where it is crossed by the Santa Fe Road. It is memorable as the spot where, July, 1863, was concluded between the U. S. government and the Indian tribes of the Arkansas river, the treaty known as the Larossie Treaty.

Fort Atkinson, in Wisconsis, a city of Jefferson co., on Bock river, 20 miles N. E. of Janesville. Pop. (1885) 2,815.

Fort Au'gusta, in Georyic, ancient fort of Richmond co., on or near the present site of the city of Amunta.

Pert Augusta, in Georgia, ancient fort of Richmond on, on or near the present site of the city of Augusta. Fert Augusta, in Pessaylensia, a revolutionary fort of Northumberland co., upon the site of which Sunbury

Port Angusticus, a fortress of Scotland, co. Inver-less, the center of the three forts erected along the great glen of Scotland, at the W. extremity of Loch Num, near the Caledonian Canal, 31 miles S. W. of Inremen, and 30 N.E. of Fort William.

Fort Bain'bridge, in Ala., a village of Russell co.

Fort Bail, in New York, an ancient fort of Oneida co.

Fort Ball, in New York, an ancient for the sear Rome.

Fort Barring ton, or Fort Barrington Frank, in Georgia, a village of McIntosh co., on the Altamaha fiver, about 12 miles N. W. of Darien.

Fort Barriow, in North Circolina, a fortification of Romoke Island, taken by the Union furces, Feb., 1862.

Fort Bay'ard, in New Mexico, a P. O. of Grant co.

Fort Beam'regard, in South Circolina, one of the defence of Port Royal harbor, taken by the Union forces, Nov. 7, 1861.

defences of Port Royal harbor, taken by the Union forces, Nov. 7, 1861.

Fort Bend, in Texas, a S.E. co.; area, about 880 sq. miles. Rivers. Brazos and Bernard rivers. Surface, generally level; soil, in some parts fertile. Cap. Richmond. Pop. (1890) 10,586.

Fort Ben'ton, in Montana, a post-town and military station, cap. of Choutean co., on the Missouri river; Lat. 47° 50' N., Lon.110° 30' W. Pop. (1897) about 780.

Fort Beversede (ba'rer-sa-dek), in Pennsylvania, built near the mouth of the Schuylkill river by the Dutch in 1848.

Fort Bid'well, in California, a P. O. of Modoc co.

Dutch in 1648.
Fort Bid'well, in California, a P. O. of Modoc co.
Fort Black'more, in Virginia, a P. O. of Scott co.
Fort Blamt, in Tenn., a former P. O. of Jackson co.
Fort Boine, in Idaho, a fort formerly belonging to the
Hudson Bay Co., but now in the possession of the U. S.,
situated on Lewis Fork, or Snake river, a few miles below
the juaction of the Big Wood river.

Fort Gris'wold, in Connecticut, a Revolutionary fort

1220

FORE GIFE WOLES, in connection, a newtonion, one new London.

Forth, adv. [A.S. fordh, thence, further; Ger. fort, forth, away, onward.] Out from; forward; forward; forward in place or order; onward in time; as, from that day forth, and so forth. — Out into public view or character.

when your troubled country called you forth." - Waller.

Beyond the boundary of a place; abroad.
"They will privily relieve their friends that are A

Beyond the boundary of a place; abroad.

"They will privily relieve their friends that are jorth."—Sponess.

Forth, a river of Scotland, rising on the E. side of Ben Lomond in Stirlingshire. After a sinuous course E., past Aberfoyle, Stirling, and Alloa, it unites with an arm of the sea called the Prith of Forth. Its chief affluents are the Teith, Allam, and Devon. The Frith at its mouth is 35 or 40 m. wide, from Fife Ness on the N., to St. Abb's Head on the S. shore, both washed by the German Ocean. It contains several islands, of which the chief are Incheding, Incheding, Inchedith, the Bass, and the Isle of May; the largest of these is but a few miles in circuit. Light-houses are erected on Inchkelth and on the Isle of May. The F. possesses many good harbors, and St. Margaret's Hope, above Queen's Ferry, is one of the safest roadsteads in the island. Length of river, including its "links," 180 m. The bridge over the Frith of Forth, completed in 1889, is a remarkable structure; the two principal spans are each 1,710 ft., the two side spans 675 ft., and height above high water, at the central span, 650 ft. It is on the cantilever principle, and the greatest of its kind in the world. See Burder, in Section II.

Fort Hale, in Consectiont, an isolated rock in New Haven harbor, about 2 m. S. of New Haven. During the War of Independence it was named Fort Bock.

Fort Ham'esch, in New York, a post-village of King's co., on the Narrowa, at the W. extremity of Long Island The fort defends the entrance to New York harbor.

Fort Ham'esch, in New York, a Bovolvillage of El Paso co., on So. Pac. & Tex. Pac. R. R.

Fort Ham'esch, in New York, a Revolutionary fortress, now in ruins, at the confluence of the Fishkill creek and the Hudson river, near Saratoga.

Fort Ham'esch, in New York, a See Com.] Making appearauce; ready to appear; as, the witnesses are forthcoming.

and the Hudson river, near Saratoga.

Portheoming (forth-cwm'isp), a. [See Come.] Making appearauce; ready to appear; as, the witnesses are fortheoming.

Port Hen derson, in Alabama, a village of Macon co., about 60 m. W.N.W. of Montgomery.

Port Hen'ry, in Tensessee, a post-office of Stewart co.

Fort Hen'ry, in Tensessee, a post-office of Stewart co.

Fort Hen'ry, in Virginia, an ancient fort erected on the site of the present town of Petersburg, in 1646.

Fort Hen'ry, in West Virginia, founded by Lord Dunmore in 1774, near the site of the present town of Wheeling, and named by him Fincastle.

Fort Her'kimer, in New York. It was built near the site of the present town of Herkimer, during the Cld French, or Seven Years' War, and was known during the Revolution as Fort Dayron.

Forth'going, a. Going forth.

An utterance; a proceeding from.

Fort Hill, in Ilisoin, a pust-office of Highland co.

Fort Hill, in South Carolina, a post-office of Pickens co.

Fort Hill, in South Carolina, a post-office of Pickens co.

Fort How'kime, in Oregon, a military post of Benton co., about 15 m. W.N.W. of Corvallia.

Fort How'kimes, in Oregon, a military post of Benton co., about 16 m. W.N.W. of Corvallia.

Fort Hum'ter, in New Fork, at the confluence of the Schoharie Creek and Mohawk River. It was the scene of many severe engagements during the French-Indian, and the Revolutionary wars.

Apost-village of Montgomery co., on the site of the above fort, abt. 35 m. W. by N. of Albany.

Fortifiable, a. [O. Fr.] That may, or can be, fortified.

Fortifiable, a. [O. Fr.] That may, or can be, fortified.

Fortification, n. [Fr., from L. Lat, fortificatio, from fortig, attong, and forcer, to make.] \*\*Act of fortified.

may be divided.

Fortificable, a. [O. Fr.] That may, or can be, fortified.

Fortifica'tion, n. [Fr., from L. lat, fortificatio, from fortis, strong, and facere, to make.] Act of fortifying.

The art or science of fortifying places to defend them against an enemy. — The works erected to defend a place against attack; a fortified place; a fort; a castle.

Additional strength.

"By way of fortification and antidote." - Hooker.

"By way of ortification and antidote."— Hooker.

(Mil.) The art of constructing works of defence and offence for the protection or reduction of any important town or position. Such works are always planned by the military engineer, and carried out under his direction and superintendence. They are commonly divided into two classes, respectively known as permanent fortifications and field-works. Under the former all works are included that are constructed for the defence of a town, harbor, arsenal, dockyard, &c., being carefully laid out and built with a view to durability and the resistance of an attack, whenever it may be made; while, under the latter, all works are classed that are intended to serve a temporary purpose, such as slege-works and batteries for an attack on a fortress, or lines of intrenchment hastily thrown up for the protection of an army in the field, or to check the advance of an enemy on an important strategical position. These works differ mainly in the manuer in which they are built, the ramparts and parapets of permanent works being faced or rivetted with blocks of granite; the terre-plein of the rampart on

which the guns are worked, the cheeks of the embrasures, casemates, bomb-proof buildings for magazines,
&c., being formed of the same material; while fieldworks consist of mounds of earth formed of that which
is thrown up out of the ditch in front, having the ramparts and embrasures rivetted with sods of turf, fascines, gabions, and sand-bags, the terre-pieln for the
support of the guns and their carriages being made of
pieces of thick timber strongly bolted together. The
principal works in each class, and their component
parts, are noticed under their respective headings, an
account being given in all cases of the peculiar purposes
for which they serve and the method adopted in their
construction. (See Bastion, Caown-work, Currain, Caronniers, Covered Wat, Dirts, Glacis, Fleders, Forthensen, Covered Wat, Dirts, Glacis, Fleders, Fleders, Forthensen, Covered Wat, Dirts, Mat, Mat, Mat, Mat, Mat,
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Mat, Ma ings, for the purpose of affording the inmates and their possessions some protection from the attack of a marauding foe, a gate being made in one part of the rampart for the ingress and egress of those that dwelt within it, with a movable bridge for the passage of the ditch. This method was pursued by the Gauls and Britons in the time of Cessar; and they added strength to the earthen mound by throwing it up against a stockade of stout stakes or piles, which were driven into the earth in close proximity to each other, and interwoven with loughs and branches of trees. The field-works of the Romans were as effective as the permanent fortifications of the savage tribes of Central and Western Burope, remaining in many parts of Europe to this day, as a testimony to the skill of the Roman soldiers in fortifying even temporary camps, and the great strength of their works. But the field-works of the Gauls and Britons consisted of nothing more than their cars and wagons disposed around the camp, in the form of a circle, and strengthened by an abattis, or barricade, formed of the branches and trunks of trees. At a very early period, stone walls of considerable breadth and great strength took the place of the simple ramparts of earth, for the defensive works thrown up around "fenced cities;" and these were furnished with battlements and machicolations (see Macincoarron) for the protection of the archers that manned the walls, and as a means of annoying the besigners who might attempt to undermine the rampart. The spaces between the battlements, and the battlements themselves, were subsequently modified fint the parapet-wall and embrasures, as we now have rampart. The spaces between the battlements, and the battlements themselves, were subsequently modified into the parapet-wall and embrasures, as we now have them, on the introduction of cannon. Examples of early fortifications are to be found in the remains of the Cyclopean walls that once surrounded the old Greek cities of Tiryus and Mycens. The Phoenicians are said to have been the first who regularly fortified their cities with stone walls; but, however this may be, it is certain that the cities of Egypt, and the great cities of Assyria—Babylon and Nineveh — were girdled with fortifications of marvellous strength and size, on which several chariots could be driven abreast of each other. Until the

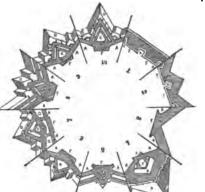


Fig. 1049.

A, Bastion; B, raveiln; C, covered way; D, giacis; E, cavaller; F, curtain; G, counterguard; H, ditch.
1, Castellated, 13th cent.; 2, Castellated, 14th cent.; 3, Early Italian system; 4, Errard's system, 16th cent.; 6, Pagan's system, 17th cent.; 6, Vauban, 1st system, 17th cent.; 7, Vauban, 3 system, 17th cent.; 8, Cohorn's system, 17th cent.; 9, Cormontaigne's system, 16th cent.; 10, Modern system.

year 1500, the characteristics of the defensive works of a town (1, Fig. 1049) were nearly the same in all countries: first; they consisted of a lofty and massive polytries: first; they consisted of a lofty and massive polygonal wall of great thicknets, with a fausse-braye, or bank of earth, thrown up in a sloping form against the exterior, to protect it from the attacks of the battering-ram. Then towers were added, in the form of large square or semi-circular buttresses, projecting from the angles, and also from the face of the wall in various parts, which enabled the defenders to enflade that portion of the wall which lay between any two of them, and so defend it in a more effectual manner from the attacks of assailants who sought to make a breach at its base with their engines of war. These flanking towers were the origin of the modern bastions. Out works were then constructed beyond the ditch, opposite to the different entrances to the town, for the better protection of the gates, connected with the main works by drawbridges. While this disposition of the wall, and its various parts, may be traced in all the fortifications of ancient cities, and those of towns and castles of the Middle Ages, so it may be seen more fully developed in the curtains, bastions, crown-works, and bridge-heads of the fortifications of modern times. The old method of construction was efficient enough as long as tattering-rams, scaling-ladders, and aimilar engines, formed the chief means of attack, and javelins and arrows the most formidable projectile that could be showered on the assailants by those who manned the walls: and although the introduction of the Inextinguishable Greek fire, in the 7th century, was a missile that brought death, terror, and destruction in its train, blazing fiercely even under water, and injuring everything wherever it fell, with the exception of stone walls, yet no modifications of the principles of construction were absolutely necessary, until the invention of cannon, which followed closely on that of gunpowder, in the 14th century, directed the thoughts of the soldier architects of the succeeding cycle to seek means whereby the new weapon might be made as officient for the protection of the walls, by a proper disposition of the faces of the works with reference to each other, as it was effective in causing breaches in the ramparts, that rapidly crumbled under the crushing shocks of the heavy balls of stone and iron that proper disposition of the faces of the works with reference to each other, as it was effective in causing breaches in the ramparts, that rapidly crumbled under the crushing shocks of the heavy balls of stone and iron that were hurled point-blank against them. The result was the introduction of small bastions of the present form (2, 3, Fig. 1049), instead of the old flanking towers, projecting from the corners of the work in salient angles, the rampart forming four sides of an irregular pentagon, the fifth, or gorge, being left open as a communication between the bastion and the interior of the fortress. But the chief fault of the old flanking towers was equally perceptible in the new bastion; they were still too small, and too far apart, to defend each other in an efficient manner, and the platforms or terre-pleins of the majority were not calculated for the reception of artillery of any size. Toward the end of the 16th century, an attempt to remedy this defect was made by Errard de Bar le Duc, a French engineer, who introduced considerable improvements into the received methods of constructing fortifications (4. Fig. 1049). He made the faces of his bastions much longer, and the curtains connecting them much shorter, than they had hitherto been; but the faces of the lastions terminated at the shoulders in arillons, or pieces of the rampart in continuation of the faces which were in the form of an curtains connecting them much shorter, than they has hitherto been; but the faces of the lastions terminated at the shoulders in arillons, or pieces of the rampart in continuation of the face, which were in the form of an arc, and entered towards the interior of the bastion; and his flanks, which were bereft of their due proportions by the arillons, were disposed at an angle of 80° to the curtain, which would inevitably bring a fire of muskerry, directed from the flank at right angles to its face, on the defenders occupying the opposite extremity of the curtain. De Ville, an engineer who flourished abt. 1830, lengthened the flanks, and constructed them at right angles to the curtain; but a still farther advance to the present system was made about fifteen years later by Count de Pagan (5, Fig. 1049), who constructed the faces of his flanks in lines perpendicular to the faces of the collateral bastions produced, which caused them to splay outwards from the curtain in such a direction that a fire directed perpendicularly from the faces of the collateral bastions, and prevent an attacking party from effecting bastions, and prevent an attacking party from effecting bastions, and prevent an attacking party from effecting directed perpendicularly from the faces along their entire length would enfilled the faces of the collateral battions, and prevent an attacking party from effecting a lodgment in the ditch. He also constructed double and triple flanks to his bastions, which were parapets parallel to the faces of the outer flanks, rising allove one another in tiers toward the interior of the bastion. It remained for Vauban to give a systematic method of constructing regular fortifications, which he effected (6, Fig. 1049) by taking fractional parts of the length of the side of the polygon within which the execute was formed, and which was bounded by lines drawn to join the salient angles of the bastions (which, indeed, were coincident with the angles of the polygon, as far as their vertices were concerned), to furnish the dimensions of various parts of the work. As this is the foundation on which all other systems are based, which have been introduced since Vanban's time, a detailed account of the method of constructing a regular front of fortification, in accordance with that engineer's first system, will be given elsewhere, with a ground-plan of the same, as has been already said. (See Vauban's First Strays.) His second and third systems arose out of modifications of the first, in adapting it to the remodelling of the works of many old fortified towns. The chief features of these systems (7, Fig. 1049) consist in the bastion being detached from the exocute, with a ditch in the rear, the curtains being continued, and meeting in an angle in the rear of the bastion, which was strengthend by a tower, also in the form of a bastion, the flanks of which defend the ditch. Vauban also improved ened by a tower, also in the form of a bastion, the flanks of which defend the ditch. Vauban also improved the construction of the ravelin, and was the first engineer who introduced ricochet firing on attacking a for-tress. He also formed traverses in the covered way, to protect the besieged from this kind of firing, and the places of arms at the salient and re-entering angles of the covered way. It will be understood, in the construction of works one in advance of another, that construction of works one in advance of another, that the reliefs of the different ramparts, on their heights one above another, must be sufficient to allow a fire of musketry being kept up from the creet of the para-pet of a lower work, while a cannonade is being di-rected against the enemy on their siege-works from the ramparts of the works above, without injuring the men in the work below. Thus the seles of the embrasares

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in the faces of the ravelin should be in a horisontal line, that is, at least tour feet above the crest of the glacis and the tenalile should be low enough to allow a musketry fire from the fianks of the bustion and the intervening curtain to pass over the heads of its defenders. The Dutch engineer Cohorn was contemporary with Yanban, and constructed the fortifications of most of the principal towns of Holland and Belgium. His system (8, Fig. 1049) is very similar to those of Vanban, but its distinguished by the introduction of large arrillons, forming casemated butteries at the shoulders of the bastions. He also constructed works of great atrength in the interior of the bastions, as well as in front of them, and redoubts in the interior of the ravelina, which protected his curtains. About 1740, Cormontaigne, a Frenchman, introduced a system founded upon Yauban's Cy. Fig. 1049, in which he extended the faces of the ravein the faces of the ravelin should be in a horizontal line, protected his curtains. About 1740, Cormontaigne, a Preachman, introduced a system founded upon Yauban's (9, Fig. 1049), in which he extended the faces of the ravelin in front of the curtain, diminishing the extent of the salient angle formed by them. He also formed retreachments in his bastions, and made the re-entering places of arms in the covered way large enough to admit of the construction of redoubts, having the main ditch immediately in their rear. These were useful in adding to the means of defending the covered way, and they also protected the openings that appear between the extramities of the tensille and the flanks of the bastions, on either side of it. Various additions and modifications of these systems have been introduced from time to time, by French, German, and English engineers, since 1750. The modern system (10, Fig. 1049) differs but little from that of Cormontaigne. The resentering places of arms have circular fronts instead of angular; the angle of the ravelin is fixed at 69°, and all the best points of older systems are associated. The great improvements lately made in the construction of heavy guns have rendered it necessary to revise the systems of F. formerly in vogue. Iron and steel are taking the place of masonry in situations where eart taking the place of masonry in situations where eart taking the place of masonry in situations where eart taking the place of masonry in situations where eart taking the place of masonry in situations where eart taking the place of masonry in situations where eart taking the place of masonry in situations where eart taking the place of masonry in situations where eart taking the place of masonry in situations where eart taking the place of masonry in situations where eart taking the place of masonry in situations where eart taking the place of remounted on disappearing carriages. In the U. S. the frontiers exposed to attack being very harrsly marritime. the fortifications are principally batdone, the guns are placed in revolving steel cupolas, with spherical roofs, or are mounted on disappearing carriages. In the U. 8, the frontiers exposed to attack being very largely maritime, the fortifications are principally latteries of heavy guns adapted to a contest with steel-plated ships. These are enclosed in the rear with a land front, as protection against a land attack, but not made sufficiently strong to stand a long stege, it being taken granted that reinforcements can quickly be provided to repel a besieging force. It was formerly usual to mount guns in masonry casements built tier over tier, this method of building being common throughout the world. But this method has been discarded in consequence of the modern developments in ships and guns. The system recommended by a board of naval engineers, in 1886, proposed the use of steel plated turrets, armored casements, harbette batteries, mortar and floating batteries, and submarine mines; and U. S. fortifications of recent construction have been built in accordance with this recommendation.

For tilled, p. a. Made strong against attacks.

For tilled, p. a. Made strong against attacks.

For tilled, p. a. [Fr. fortifier; L. Lat. fortificare, from fortis, strong, and facers, to make.] To add to the strength of; to confirm; to invigorate; to strengthen against any attack.—To strengthen and secure by forts, attreties, and other delenative works.—To furnish with strength, or means of resisting force, violence, or assault.

-v. a. To raise strong places.

"These as empowered, to fortify thus far."—Miton.

Fort Independed on the fortification of the lained, about 3 miles below Boston, Previous to and

"Then as emporeed, to fortify thus far."—Mitton.
Fort Imdepen'dence, in Massachusetts, on Castle Island, about 3 miles below Boston, Previous to and during the Revolution it was called Forr WILLIAM.
Fort Imdem, in Rhode Island, a noted fortification of the Narragausetts, near Kingston.
Fort Imge, in Texus, a former P. O. of Uvalde co.
Fort Imge, in Texus, a former P. O. of Uvalde co.
Quebec, originally founded by the French in 1750, and strengthened by Gen. Schuyler in 1775.
Fortis'simo, adr. [It. superl. of forts, strongly.]
(Mus.) A distinction to sing or play with the utmost strength or loudness.
Fortis'sidem (forti'shon), n. [Lat. fortulo, sortilio, from forts, sors, lot or chance.] Selection by lot or chance.
Fortistude, n. [Fr., from Lat. fortilo, from forts, strong.] Endurance; resoluteness; that strength or funders of mind which enables a person to encounterdanger with coolness and courage, or to bear pain or

frinces of mind which enables a person to encounter danger with coolness and courage, or to bear pain or adversity with patience, submission, and resignation.

Fort Jack'son, in Louisiana, on the Mississippi river, about 80 m. below New Orleans. During the Civil War, the place was strongly fortified by the Confederates in conjunction with the sister batteries of Fort St. Philip, on the opposite side of the river, which latter was obstructed so effectually by hulks and chains, as to close the passage. From 20th to 25th April, 1862, the fleet under command of Commodore Farragut engaged both forts in a severe artillery duel, passed them with but comparatively small loss, and breaking through the river obstructions, succeeded in reaching New Orleans.

comparatively small loss, and breaking through the river obstructions, succeeded in reaching New Orleans.

Fort Jackson, in New York, a post-village of St.

Lawrence co., on the E. branch of St. Regis river, about 40 m. E. of Ogdensburgh.

Fort Jeffersons, or Wicklippe, in Kestscky, a post-town, cap. of Ballard co. Pop. (1890), 369.

Fort Jeffersons, in Osico, a post-village and military depot of Darke co., about 5 m. S. of Greenville. The fort was built by Gen. St. Clair in 1791.

Fort Jem'kius, in Pennsybonia, (1) about 8 m. above Wilkesbarre, built in 1776; (2) on the Susquehanna, about half-way between Wilkesbarre and Sunbury. Fort Jem'mings, in Ohio, a post-village of Putnam co, on the Auglaize river, about 112 miles N.W. of

Columbus.

Columbus.

Fort Jes'up, in Louisiana, a P. O. of Sabine parish.

Fort Jehma'town, in North Circlina, a revolutionary fortress, on Cape Fear river, on the site of the present town of Smithville. The more modern fortress of this name still forms one of the defences of Smithville Harbor.

Fort Johnstown, in New York, an ancient fortification on the Mohawk river, about 3 m. W. of Amsterdam.

Fort Jones, in California, a post-town and military station of Sickiyou co.; Lat. 419 35' N., Lon. 123' W.

Fort Maskan'kia, in Illinois, an ancient and Revolutionary fortress, on the site of the present town of Kaskaskia.

Kaskaskia.

Fort Kesr'ny, in Nebraska, a former post-town and military station, of some importance, in Kearny co., on the Platte river; destroyed in 1875.

Fort Kent, in Maine, a post-town of Arosotook co., about 115 m. N. of Bangor. Pop. (1887) about 2,000.

Fort Klasm'ath, in Oregon, near Lake Klamath, in Wasco co., about 90 m. E.N.E. of Jacksonville.

Fort Keotannye (hoo-ta-ni') in Oregon, on the Kootannye or Flot Bow river.

canye of Fig. 16w Fiver.
Get La fayette, in New York, a strong fortification in the Narrows, at the entrance of New York harbor, immediately in front of Fort Hamilton.

in the Narrows, at the entrance of New York harbor, immediately in front of Fort Hamilton.

Fort Ba'mane, in Georgia, a post-office of Madison co. Fort Lara'smale, in Wyomisig, a military station and post-eettlement ou the N Fork of Platte river; Lat. 42° 12' 10" N., Lon. 104° 47' 43" W.

Fort Law'remes, in Ohio, a revolutionary fort, built in 1778 near the present town of Bolivia.

Fort Law'remee, a seaport town of Nova Scotia, in the co. of Cumberland, and on an arm of Cumberland Bay, 90 m. N. by W. of Halifax. Now Amerer.

Fort Lew'remeet, a seaport town of Nova Scotia, in the Missouri river, about 4 m. below Weston, Missouri. It is the oldest and most important military depot on the Missouri river, the fort having been built in 1827.

Fort Lee, in New Jersey, a post-village of Bergen co., on the Hudson river, about 9 m. above New York. The fort is now in ruins.

Fort Leem'hi, in Idaho, on the E. fork of Salmon river, about 105 m. N.N.E. of Idaho City.

Fort'lee, a. A little fort.

Fort Lewis, in Virginia, a post-office of Bath co.
Fort Liberte (les-ber-di'), or Fort Dauphin, a scaport town of Hayti, on the N. coast; Lot. 19° 42' N., Lon. 71° 57' W.

Fort Lit'tleton, in Pennsylvania, a post-village of Fulton co., about 86 m. W. by S. of Harrisburg.
Fort Logan, in Kentscky, about 1 m. W. of the town of Stauton, in Lincoln co.

Fort Loudon (low don), in Tennessee, an ancient for-tification on the Tennessee river, near the borders of

FORE LOUISM (low don), in Tensesce, an ancient fortrification on the Tennessee river, near the borders of
Georgia.

Fort Lup'tom, in Colorado, a post-office of Weld co.
Fort Ly'on, in Colorado, a post-office of Weld co.
Fort Ly'on, in Arkansas, a post-office of Miller co.
Fort Mac'h'inster, in Georgia, one of the defences of
Savannah, taken by Gen. Sherman, Dec. 1864.

Fort Mac'men, in North Curolian, near Beaufort Harbor.
Fort Mac'men, in Nort, a city, cap. of Lee co., on
the Mississippi river, about 21 m. above Kockuk. The
town is well built on rising ground, and the locality is
healthful. It has a considerable trade in grain, pork,
lumber, &c. Pop. (1887) about 4,000.
Fort Magin'mis, in Montana, a P. O. of Fergus co.
Fort Massachu'setts, in New Mexico, about 150 m.
N. from Sants Fé; Latt. 379 45' N., Lon. 165' 30' W.
Fort Mer'cer, in New Jersey, a revolutionary fort on
the Delaware river now in ruite.

N. from Santa Fé; Lat. 37º 45' N. Lou. 105° 30' W. Fort Mer'eer, in New Jersey, a revolutionary fort on the Delaware river, now in ruins.

Fort Milfalm, in Pennsylvenin, a revolutionary fortress at the junction of the Delaware and Schuylkill river, about 6 m. below Philadelphia. Still garrisoned.

Fort Milla, in South Carolina, a post-office of York co.

Fort Miller, in California, on the San Joaquin river, just above the head of navigation on the stream, in Frence.

Fort Miller, in New York a revolutionary forton the

Fresno co.

Fort Miller, in New York, a revolutionary fort on the site of the present town of that name.

—A post-village of Washington co., on the Hudson river, about 40 m. Nof Albany.

Fort Mitch'ell, in Alabama, a post-village of Russell co., about 40 m. from Columbus, Georgia.

Fort Mitch'ell, in North Carolina, a post-office of Lunanhers co.

Lunenberg co. Fort Montgom'ery, in New York, a post-office of

Orange co.

Fort Montpe'lier, in Alabama, a vill. of Baldwin co.

Fort Moore, in Georgia, an ancient fort near Sand

Bar Ferry, on the Savannah river.

Fort Mor'gam, in Alabama. See Monile.

Fort Morgam, in Colorado, a post-village, capital of
Wald or

Weld Co.

Fort Mette, in South Carolina, a revolutionary fort, now a post-village, on the Congaree river, about 33 m. below Columbia, in Orangeburg co.

Fort Moultrie (moo'tre), in South Carolina, one of the Revolutionary defences of Charleston Harbor, about

5 m. E.S.E. of Charleston. Still garrisoned.

Fort Nas'sau, in New Jersey, an old fort on the Delaware river, near the site of the present city of Gloucester, memorable as the first settlement on the shores of the Delaware, and built by Captain Jacobus May in 1831

May, in 1831.

Fort Neces'sity, in Pennsylvania, an old fort near
the site of the present town of Union, in Fayette co.;
built by Washington in 1754.

Fort Nel'som, in Virginia, a revolutionary fortress,
once defending Norfolk, now the site of the U.S. Marine
Hamital

Hospital.

once defending Norfolk, now the site of the U.S. Marine Huspital.
Fort New qually, in Washington. See Nesqually.
Fort New pore, in New York, an old fortress on Ward creek, a tributary of Oneida Lake.
Fort Ning ara, an old fort of Ontario, built by the French in 1727. Still garrisoned.
Fortmight (fort-sile), s. [Contracted from A. S. fooserigne nights, fourteen nights. It was the custom of the ancient northern nations to count time by nights; thus, this day seven night (sen'night).] The space of fourteen days; two weeks.
Fort Ninety-six, in Bosth Carolina, a fort of Abbeville co., about 6 m. from the Soluda river; so-called on account of being 98 m. from the frontier fort of Prince George (g. v.). It was the scene of many severe conflicts during the War of ludgendence.
Fort Non'semme, in New Jersey, erected by Washington near Morristown, in the winter of 1779-80, to give employment to the men; hence its name.
Fort Non'semme, in New Jersey, or Collettorpe in 1737, on St. Simon's Island, near the mouth of the Alalama river. It was the scene ot considerable fighting during the Revolution, as well as the war of 1812. Now in ruina.
Fort Onta'rio, in New Jork, See Fort Ownon.
Fort Optamidt (op'lan), in Ledacars, built by the Dutch in 1631, near the site of the present city of Albany.
Fort Or'smage, in New York, an old fort built by the Dutch in 1632, on the site of the present city of Albany.

Lewes.

Fort Or'ange, in New York, an old fort built by the Dutch in 1623, on the site of the present city of Albany.

Fort Owwegatch'1e, in New York, an old French fort, built on the site of the present city of Ogdeusburg about 1735, and called Forr Presenvation, and Fort La Gallette. In 1760 it was taken by the British, and called fort William Arcorsus.

Fort Onwe'go, in New York, an old French fort, built on the site of the present city of Oswego by Count Frontenac, about 1696. Fort Ontarlo, however, was built on the opposite side of the Oswego river in 1755, and at once took the precedence. Both forts were the access of considerable fighting during the French and

built on the opposite side of the Oswego river in 1755, and at once took the precedence. Both forts were the scenes of considerable fighting during the French and Revolutionary wars, and once in 1814.

Fort Par'is, in New York, a revolutionary fortress on Stone Arabia, about 3 m. N. of the Mohawk river.

Fort Paul'us Hook, in New Jersey, a revolutionary fortress erected by the British on the site of Jersey City.

Fort Payme, in Alabama, a post-town, the capital of DeKalb co. Pop. (1892) about 3,000.

Fort Payme, in Connecticut, an old Indian fort on Pequot Hill, about 8 m. N.E. of New London.

Fort Pick'ems, in Plovida. See PENSACOLA BAY.

Fort Pick'ems, in Flovida. B. P. O. of Brevard co.

Fort Pick'ems, in Flovida. Bee PENSACOLA BAY.

Fort Pick'ems, in Stone of the Confederates during the Civil War, about 40 m. N. of Memphis, and abandoned by them, June, 1882, and occupied by the Union forces until April, 1864, when it was taken by the Confederates under Gen. Forrest, and the garrison killed,

Fort Pitt, a fort in British North America, on the Saskatchewan river; Lat. 47° 30' N., Lon. 108° W.

Fort Pitti, in Penseylcania. See Pittesus.

Fort Pittin, in New York, a post-village of Motte.

Fort Pitin, in New York, a post-village of Motte.

Creeks.

Fort Plain, in New York, a post-village of Montgomery co., on the Mohawk river, about 58 m. W.N.W.
of Albany.

Fort Plaink, or Fort Blank, in New York, a revolutionary fort of Montgomery co., about 2 m. N.W. of
Fort Plain.

Fort Plain.

Fort Poeint, in California, on the 8. side of the Golden Gate, about 3 m. N.W. of San Francisco.

Fort Pullas ki, in South Carolina, a fortification at the mouth of the Savannah river. Setzed by the Confederates, Jan 3, 1861, it was besieged and taken by the Union Carona April 19 1862

Icdorates, Jan 3, 1801, it was besieged and taken by the Union forces April 12, 1862.

Fort Put'mam, in New York, the principal defence of West Point during the Revolution, Now in ruins.

Fort Raccont, in loca, a village of Des Moines co.

Fort Ran'dall, in South Dakota, a post-village, cap.

Fort Ran'dolph, in Tennessee, on the Mississippi

of Toda co.

Fort Ram'dolph, in Tennessee, on the Mississippi river, a few miles from Fort Pillow.

Fort Ramsom, in North Dakota, a P. O. of Ransom co. Fort Recov'ery, in Ohio, a post-office of Mercer co. Fort Remsselaer', in New York, a revolutionary fortress near Cangioharie.

For'tress, s.. [Fr. fortresse, from Lat. fortis, strong.] A city or town surrounded by regular works of defence, that requires to be invested by an attacking force, and subjected to regular siege operations before it can be reduced. Fortressess are generally found on the frontiers of continental states, and in the immediate vicinity of important harbors on the seacoast, where there are extensive naval dockyards and arsenals, and great quantities of government stores are gathered together.

UU

Plymouth and Portsmouth, with Portland, are the most important, F. on the S. coast of England.

-Defence; safety; security.

Fortwittensmess, s. The quality of being casual or accidental.

"God is our fort

v. a. To guard; to fortify.

Fort Rip'ley, in Minnesota. Bee Fort Rip'ley, in Minnesota. Bee Fort Rip'ley, in Minnesota. Bout 78 m. at 18 m. but 78 m. at 18 m. at

Fort Rit'mer, in Indiana, a post-village of Lawrence co., about 78 m. E. of Vincennes.

Fort Rob'imson, in Nebraska, a P. O. of Dawes co. Fort'rose, a scaport and borough of Scotiand, co. Rose, on the N. bank of the Moray Frith, opposite Fort George, 8 m. N.E. of Inverness. Ind. Deep-sea fishing. Pop. 1,127

Fort Royal, now Fort De France, a fortified scaport town, and cap of the Island of Martinique, W. Indies; Lat. 140 35 9° N., Lon. 60° 4′ 2″ W. It is a well-built place, and the residence of the French governor of the Island. In 1839 it was almost destroyed by an earthquake. Pop. (1839) 13,822.

Fort Salom'ga, in New York, a P. O. of Suffolk co. Fort Salom'ga, in New York, a P. O. of Suffolk co. Fort Salom'ga, in Tensesee, a fortification on the Holston river just above Knoxville.

Fort Schay'ler (ound, a coong sho-a-keeng), a settlement of Brazilian Guiana, on the Branco, a tributary of the Amazon; Lat. 3° 1′ 46° N., Lon. 60° 2′ W.

Fort Schuy'ler (Oun), in New York. See Unica.

Fort Schuy'ler (Uun), in New York. See Unica.

Fort Schuy'ler (Uun), in New York. See Unica.

Fort Schuy'ler (Uun), in New York. See Unica.

Fort Schuy's (Salom's Salom's Salom

wein in the vicinity; seat of the Kansas Normal School. Pop. (1895) 11,108.

Fort Sen'eca, in Ohio, a post-office of Seneca co.

Fort Sim'ece, in Washington, a post-office and Indian agency of Yakima co.

Fort Slon'go, in New York, a revolutionary fortification built by the Tories, in 1781, on Treadwell Neck, Long Liebed. Long Island

Long Island.

Fort Smith, in Arkansas, a city and military post, cap. of Sebastian co., on the Arkansas river, about 180 m. W. N. W. of Little Rock; Lat. 34° 45′ N., Longitude, 36° W. Pop. (1897) about 17,800.

Fort Smel'limg, in Missascota, a post-village and military post of Hennepin co., on the Mississippi river, about 7 m. above St. Paul.

Fort Sor'el, an old French fort of prov. Quebec, built by Soral a Franch angineer about the rest left on the

by Sorel, a French engineer, about the year 1665, on the site of the present town of Sorel.

Fort St. David, a fortress of Hindostan, on the Cororepresentation of the Coro-mandel coast, 12 m. from Pondicherry.—An English factory, established here in 1691, became, after the capture of Madras by the French in 1746, the head of the British East Indian settlements. In 1758 it was captured by Count de Lally-Tollendal, who dismantled

the fortifications.
Fort St. Fred'erick, in New York, one of the forti

Fort St. Fred errem, in New 10th, old of the cations of Crown Point.

Fort St. Philip, in Louisiana, a fortification on the Mississippi river, opposite Fort Jackson (q. v.).

Fort Stan'ton, in New Mexico, a P. O. of Lincoln co.

Fort Stock'ton, in Texas, a post-village, cap. of

Stead'man, in Virginia, on the Jame

Pecco county.

Fort Stead'man, in Virginia, on the James river, about 18 m. below Richmond. It was captured by the Confederates, March 14, 1866, and retaken by the Union troops shortly afterward.

Fort Ste'phens, in Mississippi, a P. O. of Kemper co. Fort Sul'livam, in Maise, the most E. fortification of the U. S., defending Eastport.

Fort Sum'her, in K. Mer., a P. O. of Guadalupe co. Fort Sum'der, in South Carolina. See Sunter, Fort.

Forts'ville, in Georgia, a village of Jones co., about 18 m. W. of Milledgeville.

Forts'ville, or Fortville, in Indiana, a post-village of Hancock co., about 10 m. N. E. of Indianapolis.

Forts'ville, in New York, a P. O. of Saratoga co. Fort Taylor, in Florida, a Fortification of Key West, commanding the N. entrance to the Guilf of Mexico.

Fort Theomes, in Arisona, a P. O. of Graham co. Fort Theomes, in Arisona, a P. O. of Graham co. Fort Theomes in New York, on Staten Island, at the entrance of New York harbor, and opposite Fort Hamilton.

Fort Tow'son, in Indian Territory, a fort of the Che

FOFE TOWN 50M, in Indian Territory, a fort of the Chocataw Nation, on the Klamishi river, a few m. above its confluence with the Red river.

FOFE Trumm'bull, in Connecticut, a revolutionary fort on the W. side of the Thames river, below New London and opposite Fort Griswold. Both are still garrisoned.

FOFEU Itous, a. [Lat. fortisitous, from fors, change, hap, luck, hazard.] Happening by chance; coming or occurring unexpectedly, or without any known cause; accidental; casual; contingent; incidental.

Fortn'ity, s. [Fr. fortwill.] Accident; incident;

accidental.

Fortuitty, n. [Fr. fortuitl.] Accident; incident; chance; contingency.

Fortuima. (Myth.) Daughter of Oceanus, according to Homer, or one of the Parces according to Findar, was the goddess of fortune, and from her hand were derived riches and poverty, pleasures and palns, blessings and misfortunes. She was worshipped in different parts of Greece. Bupalus was the first who modelled a statue of Fortune for the people of Smyrna, and he represented her with the polar star upon her head, and the horn of plenty in her hand. The Romans held her in high esteem, and had no less than 8 different temples erected to her honor in their city. She is generally represented blindfolded, and holding a wheel in her hand, as an emblem of her inconstancy. Sometimes she appears with wings.

Fortuima, in Kentucky, a village of Graves co.

Fortuima, in Missuscota, a village of Pine co., on the Kettle River, abt. 100 m. N. by K. of St. Paul.

Fortunates In sules.

[Lat., fortunate islands.]

They are represented as the seats of the blessed, where the souls of the virtuous were placed after death, and where the air was wholesome and temperate, and the earth produced an immense number of various fruits without the labor of man.

without the labor of man.

without the moor of man.

Or'tumatie, a. [Lat. fortunatis, pp. of fortunare, to render prosperous.] Lucky; prosperous; successful; happy; coming by good luck or favorable chance.

"I am most fortunate, thus socidentally to encounter you." Shaks.

Bringing, or receiving, some unforeseen or unexpected good; as, a fortunate event, a fortunate number in a lottery.

Fortunately, adv. Luckily; successfully; happily; by good fortune; by favorable chance or issue.

Fortunateness, n. The state or quality of being

FOFTUIRLEMESS, n. Ine state or quality of Deing fortunate.

Fortunate.

Fortunate.

Fortunate.

Fortunate.

Fortunative., (for-tu-nai'tus.) (Lit.) The title of one of the best German Volksbücher (peoples' books) ever written, and which has been translated into perhaps every language of Europe. It originated in the 15th century, though many of the tales included in it are of much older date. The oldest printed edition of the book now extant was published at Frankfort in 1509. The story is, that Fortunatus and his sons are the possessors of an inexhaustible purse of gold and a wishing-cap, which, however, in the end, prove their ruin. Thomas Decker made it the subject of his Pleasant Comedic of Old Phrtunatus (1800); and Tieck gives the story in his Plantaus (3 vols., Berlin, 1816).

For turne, n. [Fr., from Lat. fortuna, a lengthened form of fors, chance, hap, luck, from ferre, to bring or bear.] Whatever arrives or occurs; chance; hap; luck; fate; accident; event; the good or ill that befalls a man; success, good or bad.—Appointed lot in life; destiny; futurity.

"You who man's fortunate in their facet read."—Chapter.

es in their fa

The chance of life; the means of living.

His father dying, he was driven to London to seek his fortune.
Swit.

Wealth; estate; possessions; great wealth; as, to come into a fortune, to squander a fortune.

The portion of a man or woman, generally of a woman;

To come casually to pass; to happen; to fall out; to befall.
"Here fortuned Curil to slide."—Po

For tune Bay, an arm of the Atlantic Ocean, on the S. coast of Newfoundland, Lat. 47° N., Lon. 55° W. For tune-hunt'er, n. A man who seeks to marry a woman with a large fortune or dowry, with a view to enrich himself.

For'tune-hunt'iug, s. The seeking to obtain a for

For tune-hunt'iug, n. The seeking to obtain a fortune by marriage.
For'tune Key, one of the Bahama islands.
For'tuneless, a Luckless; also, destitute of a fortune or portion.
For'tune-tell'er, n. One who pretends to foretell fortunes, or the events of one's life.
For'tune-tell'ing, n. The act or practice of pretending to reveal the future events of one's life.
Fort Union, in New Mexico, a former P. O. and military station of Taus co., about 65 m. E. N. E. of Santa Fé.
Fort Val'ley, in Georgia, a post-village of Houston co., about 28 m. S. W. of Macon.
Fort Villar'mo, a frontier settlement of Patagonia, on the island of Choleechel, in the Rio Negro.

Fort Villar's No., a frontier settlement of Patagonia, on the island of Cholecchel, in the Rio Negro.

Fort Washakie, in Wyoming, a P. O. of Fremont co.

Fort Washakie, in South Carolina, on the E. shore of Morris Island, shout 6 m. S. E. of Charleston (q. v.).

Fort Walk'er, in South Carolina, one of the defences of Port Royal, entrance on Hilton Head.

Fort Wal'lawal'la, in Washington, an important fort on the Columbia river, at the north of the Wallawalla river.

fort on the Columbia river, at the norm of the was-lawalla river.

Fort Wan'rem, in Massachusetts, on Governor's Island, is one of the defence of Boston harbor.

Fort Wash'ington, in Maryland, a post-village of Prince George co., on the R. side of the Potomac River, abt. 16 m. S. of Washington city.

Fort Wash'ington, in New York, a revolutionary fortress on Manhattan Island, captured by the British in 1778.

Fort Wayme, in Indiana, a city cap. of Allen co., at the junction of the St. Joseph's and St. Mary's river, alout 112 m. N. E. of Indianapolis. Fort Wayne is built upon the site of the old Twightwee village of the Mismi tribe. Gen. Wayne erected a fort here in 1794, and, though it ceased to be a military post about 1819, the town springing up around it still retained the name. The surrounding region is of the most fertile character, and the facilities for trade complete, both by land and water; hence Fort Wayne has now become one of the most important cities in the State. Pop. (1897) about 48,500.

Fort Wedderburn. See Fort Chippewayay.

Fort Wedderburn. See Fort Chippewayay.

near Prescott.

Fort Wilhel'mus, in New York, a fortress on Prince's Island, near Fort Orange.

Fort Wil'ilama, a fortress of Scotland, one of a chain of three, erected to guard the Highlanda, and originally built by Gen. Monk, in the time of the Commonavealth. It had accommodation for 2,000 men, but is wealth. It had accommodation for 2,000 men, but is now disused. In the rebellion of 1715 the Highlanders, as were repulsed in an attack upon it, and the fort, in 1746, stood a siege of 5 weeks by the Highlanders, as-herents of Prince Clarles Edward.— About 2 m. distant, on the edge of Luch Linnhe, is the town of Forr Winon the edge of Loch Linnhe, is the town of Forr William, originally Marybargh, and now more generally Gordonsburgh. Pop. 1.500. Both fort and town lie at the base of Ben Nevis, the highest mountain in Groat Britain. Fort William, in New York. See Wissy Point.
Fort William, in New York. Ben Wissy Point.
Fort Williamebar go, in Wisconsin. See Porrage.
Fort Winnebar go, in Wisconsin, a township of Columbia county.

Fort Winneba'go, in Wisconsis, a township of Co-lumbia county.

Fort Worth, in Texes, an important city and railroad center, cap. of Tarrant co., on 8 lines of railroad, 175 m.

N. of Austin. Here are extensive grain elevators, flour mills, stock yards, foundries, implement works, &c., with a very large shipping trade in grain, cattle, and other farm products. The city has grown with great rapidity, and has a population estimated (1897) at about 35,000.

36,000.

Fort Wy'oming, in Pennsylvania, an old fort on the site of the present town of Wilkesbarre.

Fort Yam Hill, in Oregon, a village of Yam Hill co., about 30 m. 8. W. of Lafayette.

Forty, a. [A. 8. footestig, from feour, four, and sig, ten.] Four times ten.

about 30 m. S. W. of Lafayette.
For'ty, a. [A. S. foowerig, from fooce, four, and tig,
ten.] Four times ten.

—a. The product of four by ten.—Any symbol by which
forty units are expressed; as 40, or XL.
For'ty Fort, in Pennsylvania, a P. O. of Luzerne co.
For'ty Wessa, in California, at the junction of the
Colorado and Gila rivers.
For'ty-eight, in Tenn, a P. O. of Wayne co.
Fo'ruma, n.; pl. Forums, Fora. [Lat., from fireas, foris,
out of doors, outward.] (Roman Hist.) An open space
in Roman cities, generally surrounded by a covered
colonnade, that fronted an ambulatory, and buildings of
various kinds, such as temples, courts of law, prisons,
granaries, &c. In the later period of the empire, when
Rome had attained the summit of its glory, there were
nineteen fora within its limits, which were divided into
two classes, some being especially set apart for public
meetings and the proceedings of the law courts, while
others were devoted to business purposes and the requirements of trade. The Forum komanum, the first
that was erected in Rome, served equally for the purposes of trade and all public meetings, as well as for the
administration of justice by the consuls, decemvira, and
other magistrates of Rome. This forum was subsequently distinguished for its magnificence: the shope
were removed, and many temples of the heathen gods,
the senate-house, and the comitium, were erected in its quently distinguished for its magnificence; the shops were removed, and many temples of the heathen gods, the senate-house, and the comitium, were erected in its immediate vicinity, and in communication with it. It was also adorned with arches, statues, and pulpits, from which public meetings were addressed, and which were called rostra, from being surrounded with the brases beaks (rostra), or ornaments of the prows of the ships of war that had been captured by the Roman truremes. Exhibitions of gladiators were often shown in the forum. The Roman forum corresponded to the agora of the Greeks, and no Roman city or colony was without this important centre for the transaction of business and public affairs. Plans of the forum at Pompeli and the principal forum of Rome are given in "Pompeli," a work published by the Society for the Diffusion of Useful Knowledge.

edge.
(Law.) A place of jurisdiction; the place where a
legal remedy is sought; jurisdiction; a court of justice.
For ward, For wards, adv. [A. S. forweard, from
for, before, and weard, toward; Ger. wordstr.] Toward
a part or place before or in front; onward; progressively.

—a. Near or toward the fore part; in advance of something else.—Ready; prompt; strongly inclined; ardent;
impetuous; eager; earnest.

"Or lead the forward youth to war."

-Immodest : presumptuous.

"A boy too forward for his years."-Dryden. Advanced beyond the usual degree; advanced for the

"Short summer lightly has a forward spring."-Sk Quick; hasty; too ready.

"Nor do we find him forward to be soun

transhipment, transmission, or forwarding of goods; at

FOSS

orwarding merchant.

or warding, s. The employment of attending to the transhipment, transmission, or sending forward of goods to their owners.

a common carrier, out a mere warentouseman or agent.

For'wardly, adv. Eagerly; hastily; quickly.

For'wardness, n. State or quality of being forward;
cheerful readiness; promptness.

"Eagurass to live, or forwardness to dis."—Hooker.

"Eagerness to live, or ferourdness to the "-Hooker.

- Eagerness; ardor; zeal; eager desire for action.—Want
of due reserve and modesty; assurance; boldness; confidence; presumption.—A state of advance beyond the
usual degree; earliness, as of plants or fruits.

Forwards, a'v. Same as Forward, q. v.

Forwards, a'v. Same as Forward, q. v.

Forwards, p. of forzar, sforzar, to force. (Mus.) With
force and sudden emphasis; — expressed by the sign >
over each note so sounded, or by fs. or sf., referring to
a whole passage.

force and sudden emphasis;—expressed by the sign yover each note so sounded, or by fs. or ff., referring to a whole passage.

Fescaris, Farcesco, (fos-kar'e,) a doge of Venice, who, in 14:5, was named procurator of St. Mark's, and in 1423 was elected doge. His son Glacopo, being accused of ordering the assassination of a senator Donati, the enemies of the family created such commotion in the state, that, unable to clear himself to their satisfaction of the charge, he was banished from the city, the father having to ratify the sentence. Love of his country, and devotion to his wife, compelled the banished Foscari at all leasards to revisit his beloved Venice, where, being insortered by his enemies, he was denounced, again made prisoner, put to the question of the rack, and a second time banished, dying soon after of his wounds, or the torments of his secret punishment, and of grief at separation from his idolised family. The fate of the son had such an effect on the doge that the bereaved father went mad, in which state the enemies of his family compelled him to addicate. He died three days after in a spasm, upon hearing the bells of St. Mark's announce to Venice the election of a new ruler. Byron has written on the subject a tragedy entitled The Thoo Fascari.

\*\*Personale.\*\* Nicolo Ugo. (for'ko-lo.) an Italian poet and

Pascole. Nicolo Ugo, (forkolo,) an Italian poet and miscelianeous writer, B. in the island of Zante, of a Venetian family, 1777. He received his education at Padua, and before he was 20 produced a trag-dy called Thy-star. Soon afterwards he obtained employment as secretary to Battaglio, who was sent as ambassador to Bonaparte, to propitiate him to favor the independence of the republic of Venice. The ambassador was unsuccessful in his mission, and F. went to Lombardy, where he devoted himself to the cultivation of literature, and produced his celebrated Letters to Ortis, which established his fame. He now enrolled his name in the list of the first Italian legion that was formed, and was in Genoa during the siege of 1799. He continued with the Italian army till 1805, when he was sent to Culais with the troops professedly designed for the invasion of England: but he soon afterwards quitted the army, and in 1809 became professor of literature in Pavia. The language of his introductory lecture, however, offended Bonaparte, and the professorship was suppressed. In 1812 he produced his Afar, which being suppressed.

England; but he soon afterwards quitted the army, and in 1809 became professor of literature in Pavia. The language of his introductory lecture, however, offended Bonaparte, and the professorship was suppressed. In 1812 he produced his Ajax, which being supposed to convey a satire on Napoleon I., he deemed it prudent to withdraw to Florence. Afterwards, it is asserted, he engaged in a conspiracy to eject the Austrians from Italy, and was forced to take refuge in Switzerland, whence he went to England, where he continued to apply himself to literature, and published Essays on Petrarch, and Disputations and Notes on Dante. D. 1827.

Fee'sa, n. [Lat., a trench.] (Zoll.) A name applied to certain depressions on the external surface; generally the seat of cutaneous glands, as the lachrymal fossa in deer and antelopes, the jugular fossa, ingustnal fossa, formal fossa in deer and antelopes, the jugular fossa, ingustnal fossa, pace, (fos.) n. [Fr. fosse; Lat. fossa, from fossus, pp. of fodere, to dig.] (Fort.) A ditch, generally filled with water, encircling the rampart of a fort, lying between the scarp and the counterscarp.

(Anal.) A small cavity or depression in a bone with a large orifice. Also applied to other cavities, the entrance to which is always larger than the base.

Pertaining to or like fossils: sa, fossil bones.

—R. A substance dug out of the earth.

(Gool.) The body, or any portion of the body, of an animal or plant buried in the earth by natural causes, or any recognizable impression or trace of such a body or part of a body. The old geologists used to include minerals, or any other distinct bodies that were found in rocks, under the term of fossils. According to modern views, fossils are simply organic remains, allowing the word "remains" to apply even to footprints and other transfent impressions. A fossil is not necessarily a petrifaction. Some fossil shells found in comparatively old rocks, such as the soft compact clays of the oblitic series, are less altered from their living state than many ab petrifaction. Some fossil shells found in comparatively old rocks, such as the soft compact clays of the oblitic series, are less altered from their living state than many shells included in recent coral reefs. Wood, again, may be found in such rocks, still soft and but little altered, while in much more recent formations it is entirely Fostering, p. a. Nourishing: cherishing: bringing up. mineralized, and converted either into flint or coal. —That cherishes, or encourages; as, fostering care.

- That department of geology which relates to fossils is | Fos'terling, u. A foster child.

That department of geology which relates to loss is termed Palson rollow, q. v.

Pos'sil Co'pal, n. (Min.) Copalite, a fossil hydrocarlon from the blue clay of Highgate Hill, near London. It resembles the resin copal (q. v.) in hardness, color, lustre, transparency, and difficult solubility in alcohol. Comp. Carbon 85-7, hydrogen 11-4, oxygen 29. Sp. gr. Comp. Cu 1:01-1:05.

1-01-1-06.

Fossiliferous, a. [Lat. fossilis, fossil, and ferre, to produce.] Containing fossil remains; as, fossiliferous strata, fossiliferous rucks.

Fossilife: 'tion, n. [Lat. fossilis, fossil, and facere, to make.] Act of becoming fossil.

Fossilism, n. The science of fossils.

Fossilism, n. One versed in the science of fossils.

Fossilism, t. The act or prucess of conversion into a fossil, or petrified state.

Fossilisme, v. a. To convert into a fossil, or petrified state.

state.

—r. n. To be changed into a fossil state.

Fos'silized, p. a. Converted into a fossil state.

Fossombro'me, (anc. Forum Sympronii,) a town of central Italy, prov. Urbino, on the Metauro, in a fertile district, 7 m. E.S.E. of Urbino. Manuf. Silk, said to be the finest in Italy. Near this town was fought, 194 n.c., the great lattle between the Carthaginians under Asdruisl, the brother of Hannibal, and the Romains, in which the former were totally defeated, and their general killed. This victory decided the long contested struggle between the two powers. Ppp. 7,227.

Foss'orea, n. pl. [Lat. fossor, a digger, from fodere, to dig.] (Zoll.) An extensive genus of hymenopterous insects, belonging to the family Vergariz, q. v.

Fosso'rial, a. [Lat. fossor, from fodere, fossum, to dig.] Digging; burrowing, or accustomed to dig or burrow.—. (Zoll.) Animals which dig their retreats and seek their food in the earth are so called. The locomotive extremities, which are organized for burrowing, as those of the mole, or mole-cricket, are called pedes fossori.

Foss'sulate, a. [Lat. fossula, dim. of fossa, a ditch, from fossum, to dig.] Having trenches, or long narrow trench-like depressions.

Foss'ter, v. a. [A. S. fostrian, to nourish; from foster, food, fostre, a nurse, from foders. to feed.] The food.

Fos'ter, v. a. [A. S. fostrian, to nourish; from foster, food, fostre, a nurse, from fedan, to feed.] To feed; to e; to nourish; to bring up.

"Some say that ravens foctor forlorn children." - Shake

"Some say that ravens fester forlors children."—Shaks.

—To cherish; to forward; to promote the growth of; to harbor or indulge; to encourage; to sustain and promote; as, to foster talent, to foster ill-will.

Foster, JOHN, an English essayist, a in Halifax, York-ahire, 1770. He was educated for the ministry at the Baptist College at Bristol, but after preaching for several years to various small congregations with very indifferent success, he resolved to devote himself mainly to literature. His Essays in a Series of Letters, published in 1805, while he was officiating as pastor of a Baptist chapel at Frome, in Somersetahire, have been remarkably nonular, especially among the more thoughtlished in 1800, while he was officiating as pastor of a Baptist chapel at Frome, in Somersetahire, have been remarkably popular, especially among the more thoughtful of the community, and have gone through upwards of twenty editions. In 1808, P. married the lady to whom his essays were originally addressed, and retired to Bourton-on-the-Water, in Gloucestershire, where he lived a quiet, studious, literary life, preaching, however, in the villages round about on Sundays. In 1819 appeared his celebrated Essay on the Erits of Popular Ignorance, in which he urges the necessity of a national system of Education. He was long the principal writer in the Eclectic Review, and a selection from his contributions to that magnzine was published by Dr. Price in 1844. D. 1843. F. wasa man of deep but sombre piety. The shadows that overhung his soul were, however, those of an inborn melancholy, and had nothing in common with the repulsive gloom of bigotry or fanaticism. His thinking is rugged, massive, and original; and at times, when his great imagination rouses itself from aleep, a splendor of illustration breaks over his pages that startles the reader both by its beauty and its suggestiveness.

that startles the reader both by its beauty and its suggestiveness.

Pos'ter, in Kentucky, a post-village of Bracken co., on the Ohio River, abt. 50 m. N.E. of Lexington.

Foster, in Missecoda, a township of Faribault co.

Foster, in North Dakoda, a central co.; area, 648 sq. m.; soil, fertile; producta, wheat and other cereals. Pop. (1897) about 1,600. Cap. Carrington.

Foster, in Prasspiravia, a township of Luzerne co.

Foster, in Rhode Island, a post-village and township of Providence co.

Providence co.

Providence co.

Foster-brother, n. A male nursed at the same breast, or fed by the same nurse, but not the offspring of the same parents.

Foster-burg, in Illinois, a post-office of Madison co.
Foster Centre, in Rhode Island, a post-office of Providence co.

Foe'ter Centre, in Knowe issums, a post-smooth vidence co.
Foe'ter-child, n. A child nursed by a woman not the mother, or bred by a man not the father.
Foe'terdale, in New York, a post-village of Sullivan co., abt. 120 m. S.W. of Albany.
Foe'ter-dam, n. A nurse; one that performs the office of a mother, by giving food to a young child.

" The foster-dam lelled out her fawning tongue." - Dryde

Fos'ter-daughter, n. A female fed and educated like a daughter, though not one by birth.

Fos'terer, n. A nurse; one who feeds and nourishes in the place of parents.

Fos'ter-father, n. One who takes the place of a father in feeding and educating a child.

Fos'ter-father, n. a. Nourishing: cherishing: bringing up.

Fos ter-mother, n. A nurse.
Fos ter-m, in Alabasa, a pust-office of Tuscalossa co.
Fos ter's, in Illinois, a village of Marion co., about 15
n. S. S. of Vandalla.

os'ter's Bar, in California, a village and township of Yuba co.

Fos'ter's Falls, in Virginia, a post-office of Wythe co.
Fos'ter-sister, n. A female nursed and brought up
as a sister, though not of the same parent.
Fos'ter's Mills, in Pennsylvania, a post-office of Arm-

strong con, n. One bred and educated like a son, though not one by birth.

Fos'ter's Meadow, in New York, a post-office of

Queens co.

Queens co.

Fos'tertewm, in New Jersey, a village of Burlington co., about 6 m. S. of Mount Holly.

Fos'terville, in New York, a post-village of Cayuga co., abeut 155 m. W. N.W. of Albany.

Fos'terville, in Tesusesee, a post-village of Butherford co., about 40 m. S. E. of Nashville.

Fosto'ria, in Ohio, a thriving city of Seneca co., on the B. & O. and four other railroad lines, 13 m. W. by N. of Tiffin. Is in the natural gas region; has a good local trade and extensive manufacturing industries. Pop. (1897) about 9,200.

trade and extensive manufacturing inquistries. cop. (1887) about 9,200.

Fosto "Fla, in Pennsylvania, a post-village of Blair co. abt. 125 m. W.N.W. of Harrisburg.

Fother, n. Same as Fodder, q. v.

-v. a. [Cf. Fodder, v. a., and Ger. füttern, to cover within or without, to line.] To endeavor to stop, as a leak in the bottom of a ship, when affort, by letting down a sail under her bottom, by its corners, and putting between it and the ship's sides oakum, to be sucked into the cracks.

The Cracks.

Path'ering ay, a village of England, co. Northampton, 4 m. from Oundle, formerly celebrated for its fine castle, in which Richard III. was born, and where Mary, Queen of Scots. was imprisoned, and finally executed. The son of the latter, James I., razed it to the ground.

Pot'mal, n. (Com.) A term for seventy pounds of lead

Fou'ah, a town in the Delta of Egypt, on the E. bank of the Rosetta branch of the Nile, prov. Garbieh, 16 m. S.S.E. of Rosetta.

S.S.E. of Rosetta.

Fouché, Josetta.

Fouché, Josetta, Napoleon's minister of polics, was the son of a captain of a merchant-ship, and B. at Nantes in 1763. It was intended he should follow the same profession as his father, but he adopted that of the law, and the events of the revolution soon brought him into notice. He headed a popular society at Nantes, by which he was sent, in 1792, as their deputy to the National Convention; and on the trial of Louis XVI. he voted for his death. In 1793 he was sent to Lyons with Collot d'Herbols, and the cold-blooded cruelties he there committed are recorded in his own letters and reports. Returning to Paris, he joined in the destruction of Robespierre, merely from the fear of becoming one of his victims. He, however, had several narrow escapes during the turbulent times that followed; but circumstances at length placed him at the head of the French police, ing the turbulent times that followed; but circumstances at length placed him at the head of the Freuch police, in which office he was a useful instrument in the hand of Napoleon. To the superintendence of police Bonaparte added the ministry of the interior, and in 1809 he made him duke of Otranto. He then opened his drawing-room to the ancient nobility, many of whom he employed as spies; but the emperor grew suspicious of this minister, and after his second marriage he resolved on dismissing him, for which an opportunity soon offered. As they felt no confidence in each other, both em-

confidence in each other, both e mployed a secret agent at the English court; which agenta, not being known to each other, had no means of concerting measures to ing measures to-gether; conse-quently their communications did not agree, and the English minister concluded, from the want of coincidence in their proposals, that France was merely trifling, and complained loudly of the in-sult. This led to



Fig. 1050. POUCEE, (DUC D'OTRANTO.)

and compian near loudly of the insult. This led to some investigation, when the contractor Ouvrard was proved to have been secretly employed by the duke of Otranto. Immediately upon this, the duke of Rovigo was made prefect of police, and F. was required to deliver up his papers. He was then sent into a sort of Rome. In 1814 he returned to France, and was well received by the restored government. When Napoleon re-appeared in France, F. was suddenly called to the ministry, and filled his post with skill. After the battle of Waterloo he was appointed president of the provisional government, when he appeared as negotiator between the emperor and the allied powers, to which he had sold himself. Louis XVIII. continued Otranto as one of his ministers, until by the law of the 6th of January, 1816, he was obliged to quit France. After trav-

elling some time in Germany, he took up his residence at Trieste, where he n. in 1820. He was certainly one of the most celebrated, and, perhaps, the most design-elly wicked of all the French revolutionists. One of his countrymen has summed up his character in this short sentence,—"Fouché effected some good, and a great dant of set!"

at Trieste, where he b. in 1620. He was certainly out of the most celebrated, and, perhaps, the most designedly wicked of all the French revolutionists. One of his countrymen has summed up his character in this short sentence,—"Foundate he has character in this short sentence,—"Foundate, he has summed up his character in this short sentence,—"Foundate, he has summed up his character in this short sentence,—"Foundate, he had been a frequence, of the first about ten or twelve feet below the surface of the ground, and putting a wooden case at the bottom, containing several pounds of powder, and occasionally some shells. It was formerly fired by means of a saucisson,—a long narrow bag of linen filled with powder,—which was protected from injury likely to arise from the dampness of the ground by inclosing it in a casing of wood. The saucisson communicated with the foundate are end, while the other was brought in a shallow trench under the earth to any point from which the train might be conveniently fired. Foundates are generally made in the glacis of a work, to throw the attacking party into confusion when an attempt is made to take the work by storm. A very destructive kind of foundates is made by filling the hole that has been excavated to receive the powder with rough stones, as well as earth. In modern warfare, foundates are exploded by means of the electric sparks, and by detonating powder, with which wires communicate that are laid in the path by which the assailants advance to the attack.

Foundate, (foo-chair.) a town of France, dep. He-tilaine, cap. arrond., on a hill near the Nançon, 27 m. N. E. of Rennes. In the 15th cent. F. was considered one of the keys of Brittany. Manyf. Sail-cloth and hemp fabrica, fannies, hast, leather, &c. Pp. 10,278.

Foundat., (faot.) imp. and pp. of Front, q. v.

Foundate, (assertions) is the stack.

Foundate, (assertions) is the stack.

Foundate, (assertions) is the stack in the hemp fabrica, fannies, hats, leather, &c. Pp. 10,278 m. N.

Foundate, (assertions) is the stack i

boats.

Fourlas, one of the Shetland islands lying N. of the Orkneys in the North Sea; Lat. 60° 8' N., Lon. 2° 6' W. Est. 2 m. long by an equal breadth, with an elevation of nearly 1,400 ft. above sea-level.

Fourlard, (foo'lar.) n. [Fr.] A kind of silk bandkerchief.—A silk material for ladies' dressing, plain, dyed, or pointed.

or printed. or printed.

Poul'ly, adv. Flithily; nastily; hatefully; scandalously; diagracefully; shamefully; unfairly; not honestly.

"Thou play'dst most feelly for it."—Shake.

"Thou play dat most feelly for it."—Shelts.

Foul'-mouthed, a. Using scurrilous language; opprobrious; obscens or profane; uttering abuse, or profane or obscene words; accustomed to use bad language.

Fourl'mess, n. Quality or state of being foul or filthy;
filthiness; defilement. — Quality or state of containing
or being covered with anything extraneous which is noxious or offensive; pollution; impurity. — Hatefulness;
atrociousness; abominableness; wickedness. — Unfairness; dishonesty; want of candor.
Foul'ress, an island on the E coast of England, co.
Essex, in the N. Sea, 9 m. from Rochford; pop. abt. 800.
Foul'-spokem, a. Using profane, scurrilous, or abusive
language.

Foul'-spoken, a. Using profane, scurrilous, or accusive language.

Fourmart, (foo'mart.) n. [A.S. fûl, fetid, and marten; Fr. mart.] (Zoil.) See Mustrua.

Found, imp. and pp. of Find, q. v.

Found, v. a. [Fr. fonder; Lat. fundare, from fundus, the bottom.] To lay, as the bottom, base, or foundation of anything; to set or place, as on something solid, for support; to lay the foundation of, and raise a superstructure upon; to raise; to erect; to construct; to establish, as on something solid and durable.—To begin; to form or lay the basis of; to institute; to give birth to; to originate; to establish on a base.

Found, v. a. [Fr.; Lat. fundo, fusus; allied to Gr. chet, cheuso, to pour, and llind. ondelna, to pour.] To cast; to form by melting a metal and pouring it into a mould.

"With wondrous art founded the massy ore."

"With wondrous art founded the massy ora."—Mileon.

Founda'tien, n, [Lat. fundatio.] Act of founding or fixing the base; the base of an edifice; original; rise; origin; that part of a building which rests on the ground; the base or groundwork of anything; establishment.—A donation or legacy appropriated to support an institution; an established revenue, particularly for a charity; endowment: settlement; institution.

(Arch.) The word P. may be applied either to the surface or bed on which a building rests or to the lower part of the building which rests on the natural bed.

1. Foundation as the bed. The best that can be had is solid rock, or any kind of resisting incompressible stratum, free from water. Where there is no chance of water, sand forms a solid foundation. When the soil is

soft, loose, and shifting, a solid bearing can be obtained only by driving piles or long beams of wood sharpened at the end, through the soft soil, till they reach a hard bottom. This is then planked or laid with cross-beams, on which the superstructure is built. The piers of many bridges are formed in this manner. Where the soil is soft, but not shifting, as in the case of made or deposited earth, the method of concreting is adopted—t. e., a large surface is laid with broken metal or gravel, and run together with hot lime, so as to form a broad, solid artificial rock, on which the building may rest.—2. Foundation as the base of the building may rest.—2. Foundation as the base of the building. The broader and larger the lower course of the manon-work, the stronger the wall. The stones should, if possible, extend through and through, and project on each side of the wall. In the best periods of art, the foundations have always been most attentively considered. The Romans formed solid bearings of concrete as above described, and paid great attention to secure the stability of their buildings. In the dark ages, when there want of knowledge combined with want of materials and means, many buildings fell from the yielding of the foundations. Some of the earlier Gothic buildings also suffered from the same cause. But knowledge came with averagence and the fuundations of the later Gothic foundations. Some of the earlier Gothic buildings also suffered from the same cause. But knowledge came with experience, and the foundations of the later Gothic buildings, during the 14th and 15th centuries, were built with extreme care, and on the virgin soil;—the stones being as finely dressed as those above ground, were necessary to resist a strong thrust. And where the weight is thrown unequally on piers and walls, these detached points are all carefully united below the floor with a net-work of solid walls.—Bad foundations are often the cause of the ruin of many modern buildings. This arises from the costly nature of making a good foundation, when the soil is not naturally suitable. But it is clear that no expense should be spared to make the foundation good, as the value and stability of the superstructure depend entirely on the security of the foundation.

FOUN

dation.

Founda'tioner, n. One who derives support from
the funds or foundation of a college or great school.

Founda'tionless, a. Without foundation.

Founda'tion-muslin, n. (Manyf) An open,
gummed fabric, used for stiffened dresses and bonnets.

Founda'er, n. One who founds, establishes, and erects;
one who lays a foundation; an author; an originator.

Au endower.

A caster: one who casts metals ...

All endower. A caster; one who casts metals.— A lameness occasioned by inflammation in the hoof of a

norse.

Founder, v. n. [Fr. fondre, from Lat. fundere, to pour, to melt.] To melt; to sink; to fall: to trip; to fill or be filled with water, and sink, as a ship.

—v. a. To cause internal inflammation and great soreness

in the feet of a horse, so that he is ready to stumble or

Foun dered, p. a. Made lame in the feet by inflammation and extreme tenderness, as a horse. — Sunk in the rea, sa a ship.

Foun derous, a. [See Founder.] Full of bogs; fail-

Foun'derous, a. [See FOUNDER.] Full of logs; maning; ruinous, m. Powder of charcoal, or of the coal used by founders to sift on the moulds. Simmonds. Foun'ders—sand, n. A species of sand used by founders to sift on the moulds.

Foun'dery, n. [Fr. fonderie.] The art of founding, or of casting metals into various forms for use; the casting of statues. (See FOUNDING.) More especially, the house and works occupied in casting metals. (Commonly written foundry.)

or of casting metals into various forms for use; the casting of statues. (See Founding.) More especially, the house and works occupied in casting metals. (Commonly written foundry.)
Foundfing, n. The process of producing any article by causing molten metal or plaster of Paris to run in a liquid state into a mould of the requisite form, which is made in various ways, and of substances best suited for the reception of the liquid material that is to be poured into it. The process is applied to the manufacture of articles in iron, bronze, bell-metal, lead, steel, copper, porcelain, plaster, and cement of various kinds. The method of founding or casting cannons in iron and bronze will be found elsewhere (see Cannon), and as the process adopted in casting statues in plaster, and making ornamental pottery and busts in Parian ware, differs so materially from that which is used in forming metal castings, each will be described in that branch of art to which they respectively belong (see Porcelain, Potter, Sourtvuzz), and the present article devoted to a brief account of the method adopted in founding iron castings of great size, and bells and statues in bell-metal and bronze. An account of type-founding will also be given under its proper heading; (see Thy-Pounding.) After iron ore has been roasted, to drive off the arsenic, sulphur, and water that may exist in it, it is thrown into an enormous furnace (see Blast-Purnaces, Iron Mayu-yactur,) with a quantity of coke and limestone, the latter of which acts as a flue to the ore, and promotes the melting of the iron. The following proportion is generally observed, namely, a ton and a half of coke and 8 cwt. of limestone, broken in very small pieces, to every ton of ore; but if pig-Iron be used, or iron that has been extracted from the ore, the addition of limestone is not necessary. When this mixture is in the furnace, leaving a quantity of scorie, technically called "slag," behind it, when the vent at the bottom has been opened, and the molten fluid allowed to escape. The

culty in making the mould, which is generally fashioned in two pieces if the casting be cylindrical in shape, or in more than two if it be irregular in form; but when it is to be cast hollow, a core is formed, to occupy the greater part of the interior of the mould, leaving a castain thickness everywhere between the inner surface of the mould and the external form to the casting, and the latter the internal form. To make the core, a quantity of wax or clay is pressed into the mould, or parts of the mould if it be made in pieces, of the thickness required for the metal. The mould having been thus lined, is then built together, and the internal cavity filled with sand, or a composition made for the purpose. The exterior mould is then taken off, and the wax or clay which represented the metal is removed, leaving the core around which the mould is subsequently built up, being prevented from touching it by stops that are arranged to preserve the necessary space between the mould and the core. They are then thoroughly dried by being exposed to the action of least in a drying-stove. Great care is taken to insure perfect freedom from moisture, which would generate steam, and cause an explosion at the entrance of the metal. As scon as all parts of the mould are dry, they are built together and surrounded by sand, which is carefully banked up around and over the mould, to assist in resisting the weight of the metal when it enters: but if the casting be of considerable size, it is generally buried in a pit below the level of the furnace, which is filled with sand as soon as the mould has been built up in it, and the metal is allowed to run into the mould along channels made for the purpose, or if the mould along channels made for the purpose, or if the mould along channels made for the purpose, or if the mould along channels made for the purpose, or if the mould along channels made for the purpose, or if the mould along channels made for the furnace, which the mould sing the previty nearly the same for castings in all kin as the whole of the 'metal used in the casting must be melted and run into the mould at one time. The sit in which the bell is cast is made near the furnace. The core consists of a mass of brickwork covered with a composition of loam and horse-dung, which is carefully fashioned to the shape of the interior of the bell. Another coating of composition is then added, after sprinkling the core with tan-dust to prevent one coat from adhering to the other, and this is carefully moulded to the form of the exterior of the bell, forming what is called the model. More tan-dust is then applied, and on the model a third coating is laid, called the shell, which eventually gives the form to the exterior of the bell. This shell is then carefully taken off and the model removed, after which the shell is built up round the core, and the pit filled with sand or loam. The bell-metal, formed of tin and copper (see Bell-Mital), which has been melted in a furnace heated with wood, instead of coal or coke, is then allowed to run into the mould. After casting, the tone of the bell is duly regulated (see Bell). The method used in casting bronze statues is similar to that adopted for castings in iron and bell-metal; but the composition of which the mould and core are made is different, consisting chiefly of a nixture of plaster of Paris and brick-dust. It is unnecessary to make large bronze castings in one piece, as they can be made in paris, which are afterwards soldered together. The composition of bronze is given under its proper heading; (see Bronze.) The composition of the state of

Found Ting, n. [From found, fand.] One that is found; a child found without a parent or owner; a deserted or exposed infant.

Found Ting-hos/pital, n. A charitable institution established for the care and bringing up of foundlings, or children that have been abandoned by their parents. The object of such institutions is to prevent the destruction of children, either by actual violence or through exposure in the streets or highways; and their establishment dates from the Middle Ages. In ancient Greco and Rome the exposure of children was a frequent practice, as it is among the Chinese at the present day. Neither Plato nor Aristotle condemn it; they content themselves with laying down general rules for the preservation of the healthier and stronger at the expose of the more weakly. Thebes was the only State of ancient Grecos that is known to have forbidden by law the exposure of children. Abandoned children were declared by law to be the slaves or absolute property of those who brought them up. The practice of exposing infants seems also to have prevailed among the Germanic nations before the introduction of Christianity. With the spread of Christianity, different feelings began to prevail on this subject, and the exposure of infants was forbidden by the emperors Valentinian and Gratian. At the same time, the stricter laws that came in force concerning marriage, and accinst tenness the concenting the exposure of the property of the stricter have that came in force concerning marriage, and accinst tenness the concenting the conc emperors Valentinian and Gratian. At the same time, the stricter laws that came in force concerning marriage, and against concubinage, rendered women more anxious than before to conceal their shame, so that, in fact, the danger to infants of being exposed or put to death was rather in-creased than diminished; and hence Gibbon has some reason to speak of child-exposure as one of the most

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Fourehee, (for-sha',) n. (Her.) A cross forked at the

end.

Fourchette', n. [Fr., a fork.] (Anat.) The posterior commissure of the labia majora.

(Surg.) An instrument used for supporting the tongue during the operation of dividing the fremum.

Four Cormers, in lowa, a post-office of Jefferson co.

Four Cormers, in Maryland, a village of Montgomery

FOUR COPMENS, in lows, a post-times of Jetterson conFOUR COPMENS, in Maryland, a village of Montgomery
county.
FOUR CETORY, ANTOINE FRANÇOIS DE, (foor krôr.) a French
chemist and natural philosopher, B. at Paris, 1755.
Having chosen the medical profession for his occupation,
he devoted himself to the study of those sciences which
are more immediately connected with it, especially chemistry. In 1784 he was appointed professor of this
science at the Jardin du Roi, and became associated
with Berthollet, Lavoisier, and others in researches
which led to vast improvements, whilst they suggested
the new chemical nomenciature, entitled Methode de
Nomenciature Chimique. On the breaking out of the
Revolution, he became entangled in the politics of the
period, and was elected a deputy from Paris to the National Convention. In 1794 he became a member of the
committee of Public Safety, and next year was received
as one of the Council of the Ancients. In 1799 Bonaparte gave him a place in the Council of State, when the
affairs relating to public instruction were placed under
his management. In this important trust he ably acquitted himself. In the various departments of chemical science and natural philosophy, he produced many
valuable works. P. 1800

quitted himself. In the various departments of chemi-cal science and natural philosophy, he produced many valuable works. D. 1809.
Four-drian/der. See Papus (Manupacrous or).
Four-Evam'grelists, part of a larger group of islands known as the Twelve Apostles, lie off the west entrance of the Strait of Magellan. They are abt. Lat. 52° 34′ S., and Lon. 75° 5′ W. The eight other islands, with which they are classed as above, run abt. 15 m. further which they are classed as above, run abt. 15 m. further out into the Pacific.

out into the Pacific.
Four-fold, a. Four-double; quadruple; four times told.

—a. Four times as much.

—v. a. To make fourfold, as an assessment.
Four-fourd, a. Having four feet.
Four-four, c. (Mus.) Applied to a measure containing four crotchets in a bar.

Fourgon', n. [Fr.] A wagon; a van.—A fire-poker; a coal-rake.

Four'-handed, a. That has four hands; quadruma-

Four-ier, François Charles Marie, (foor-eai,) the inventor of the co-operative system, a at Besançon, 1768. He was son of a clothier, and was brought up to mercantile employment at Lyons and Marseilles. The agitations of the first years of the revolution led him to reflect and speculate on the evils which afflict society and possible remedies for them, and in 1808 he announced his discovery or theory in a volume entitled, Théorie des Quatre Mouveanns et des Destinées Générales, which, after exciting a nine-days' wonder, was forgotten. It was merely the prospectus of a voluminous work which he began to publish in 1822; the first portion being entitled, Trailé de l'Association Domestique et Agricole. No notice was taken of it by the press or by the public men to whom Fourier sent copies; nor did his compendium entitled. Le Nouveau Monde Industriel et Sociétaire, find a better reception. By a severe attack on pendium entitled, Le Nouveau Monde Industriel et Socié-taire, find a better reception. By a severe attack on the principles of the St. Simonians and Owenites in 1831, Fourier gained attention and attracted disciples, and he soon after began publishing a journal, "La Phalange," for the propagation of his views. The at-tempt made to give practical shape to them came to nothing, but the craving for realization of his idea — a better distribution of labor and the profits of it by means of social organization — is wide-spread and deep-seated, especially in France. Fourier published various other works, and D. 1837. works, and D. 1837.

ourieriam, (foorre-er-ism.) n. (Polit. Econ.) A system of socialism promulgated by Charles Fourier (1772–1837), and which differs materially from the systems of communism strictly so called. It professes to be based upon natural laws, and to be founded on calculations which he maintained to be the counterpart of Newton's physical system. This system, unlike communism, does not, in theory at least, withdraw any of the motives to covertion which exist at present, nor does it contemplate exertion which exist at present, nor does it contemplate the abolition of private property. According to the Fourierists, there is excreely any kind of useful labor which is naturally and necessarily disagreeable, unless it be either regarded as dishonorable, or is immoderate in degree, or destitute of the stimulus of sympathy and in degree, or destitute of the stimulus of sympathy and emulation. They, therefore, endeavor to strengthen and foster those motives for exertion that are naturally inherent in man. Society was to be formed into associations, or phalansteries, each comprising 400 families, or 1,800 persons, numbers brought out by very careful calculations. The phalanstery was to include everything in structure and character which could gratify the highest tasto and sense of enjoyment. The pursuits and functions of the members were to be infallibly adjusted through a distribution by which each person was to be set precisely to that occupation in life to which his passions and propensities directed him. Life was thus to be a perpetual enjoyment; and labor, instead of being a sions and propensities directed him. Life was thus to be a perpetual enjoyment; and labor, instead of being a task, was to be as much a source of enjoyment as the pursuits of the bunter or the angler. The property of the association was to be held in 1,128 shares, and the whole products were to be divided into twelve parts; of which five were to go to labor, four to capital, and three to skill or talent. The capital of the community may be owned in unequal shares by different members, who would receive proportional dividends, and the claim of each person to the share of the produce appropriated to

stubborn remnants of heathendom. So early as the 6th century a species of foundling-hospital is said to have existed at Treves, the then bishop of that place permitting children to be deposited in a marble basin which stood before the cathedral, and giving them in charge to the members of the church. The first well-authenticated instance, however, is that established at Milan, in 787, by the arch-presbyter Datheus. Subsequently, founding-hospitals were established at Montpellier in 1070, at Rinbeck in 1200, at Florence in 1317, at Nuremberg in 1331, at Paris in 1362, and at Venice in 1380. In 1198, Innocent III. when rebuilding the great heapital of Innocent III., when rebuilding the great heaptal of Santo Spirito at Rome, allotted a portion of it for the reception of foundlings. This system prevails in France, Spain, and Italy, and in general in all Roman Catholic countries in Europe, whereas in Protestant countries it is not looked upon with favor. The principal objection both has been alread earliest foundling hourstals in that countries in Europe, whereas in Protestant countries it is not looked upon with favor. The principal objection that has been raised against foundling-hospitals is, that they tend to encourage illegitimacy; and the great argument in favor of them is, that they have the effect of preventing child-murder. The question is one of very great difficulty; but the prevailing opinion in this country has always been opposed to these institutions, as being, on the whole, more permicious than beneficial. The mortality in foundling-hospitals has always been very great, though the evil has in some measure been mitigated in more recent times by means of improved management and the practice of giving out children to be sursed. The usual mode of depositing children in the hespital is by means of a turning-box fixed in the wall, in which the child is laid, and, on a bell being rung, it is taken in by one of the watchers. The proportion of illegitimate children in Paris is about one in every three births; and of the total number of illegitimate children about 58 out of every 100 become inmates of the found-ing-hospital, where more than one-half of them die before they are a year old. In this country public opinion has been very decidedly conneed to the establishment of ling-hospital, where more than one-half of them die be-fore they are a year old. In this country public opinion has been very decidedly opposed to the establishment of foundling-hospitals. In Philadelphia, abandoned chil-dren are taken in charge by the Guardians of the Poor. The greater number of them, such is generally their condition when found, die soon after removal to the hos-

pitale; but such as survive are well provided for by adoption in respectable families. In New York such children, and those whose parents are unable to provide for them, are taken to a Foundling Hospital which has recently been established upon the principles which govern such institutions in Paris. govern such institutions in Paris.

Foun'drom, n. A female founder; a woman who founds or establishes, or who endows with a fund.

Foun'dry, n. See Foundry.

Foun'dryville, in Pranylomia, a post-village of Columbia co., about 14 m. E. by N. of Bloomsburg.

Columbia co., about 14 m. E. by N. of Bloomsburg.
Fount, n. A spring; a fountain.
(Printing.) Same as Foxt, q. v.
Foun'taim, n. [Fr. fontaine; L. Lat. fontana, from
lat feat, fostis, from fundo, to pour: Sanek. piz, to
fow to swim.] A spring or source of water rising above
the earth in a jet or jets, forced up by either natural or
artificial means. Artificial F. flow from vases, statues, the earth in a jet or jets, or construction artificial means. Artificial P. flow from vases, statues, or other picturesque pieces of sculpture. Among the actents, P. were generally esteemed sacred, and sacrifices and libations were made in their honor. Horace, in his Odes, gives a tribute of praise to one at Rome, distinguished by the appellation of Poss Blandusiz. Many

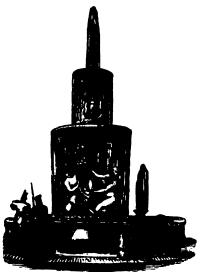


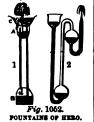
Fig. 1051. - POUNTAIN OF THE PRADO (Madrid).

of the Greek cities were adorned with these beautiful and necessary objects of art. Corinth especially. In the ruins of Pompeli and Herculaneum, F. were seen in nearly every situation; and, from the number of leaden space yeary struction; and, from the number of leaden phose also found, it seems that every house was provided with one. Modern F. are, for the most part, entirely creamental. This arises from the use of distributing water in pipes through the houses, making the street fountains, to a great extent, useless. It is found, however, that our town population — both man and beast — require some public supplies of water, and these, in this country, begin to be largely supplied by the numerous drinking-fountains which are being constructed in Philadelphia and other of our principal cities. See p. 1031.

FOUR

adelphia and other of our principal cities. See p. 1031.
-Original; first principle or cause; the source of anything.
-Oun tain of Mero. (Hydraulics.) An ingenious machine, of which the invention is ascribed to Hero of Alexandria, who lived about 150 years before our sers. Its principle is the transmission of the pressure sustained by a body of water in one vessel to that in another by means of the elasticity of air. The espectful parts of the apparatuse

another by means of the elas sential parts of the apparatus consist (1, Fig. 1052) of two close vessels, A and B, the first placed at some height above the other, and connected by a frame; and of three tubes or wines of which the dark of the connected processes of the connected by a frame; and of three tubes or wines of which the dark of the connected to the connected rrame; and of three tubes of pipes, of which the first, ab, descends from a basin, C, to very near the bottom of the lower vessel, B; the second, cd, rises from the summit of the vessel B to the top of A; the



vessel B to the top of A; the third, ef, rising from the lower part of A to some height above A, and forming the jet at f. Conceive the vessel A to be filled with water, and B with air. In this disposition of the apparatus, let water be poured into the basin C; this will descend through the pipe a b, and gradually fill the vessel B. But as it rises in B, the air in that vessel exapse through the pipe a d, and is compressed at the top of A, and, by its spring or elasticity, forces the water through the tube ef, and thus produces a jet at f, which will continue until the vessel A is nearly empired, or B nearly filled. The force which produces the f, which will continue until the vessel A is nearly emptied, or B nearly filled. The force which produces the jet is equal to the pressure of a column of water, the height of which is equal to the difference of the levels of the water in C and B: according to this theory, therefore, the water should spout to a height above its level in A equal to that distance; but its friction against the walls of the tube ef, and the reastance to its ascent offered by the air, prevent more than a fraction of this height being attained. 2, Fig. 1062, represents the fountain of Hero in another form. An apparatus constructed on this principle is employed for draining the water from the mines of Schemnitz in Hungary.

water from the mines or schemulus in singers.
Foun'talm, in Colorado, a post-office of El Paso co.
Foun'talm, in Indiana, a W. co.; area, about 400 sq.
m. Rivers. Wabash River and Coal Creek. Surface,
senerally lovel: soil, very fertile. Mis. Coal and iron generally level; soil, very fertile. Min. Coal and in in abundance. Cop. Covington. Pop. (1890) 19,568. A post-office of Fountain co.

—A post-office of Fountain co.

Foun'tain, in Wisconsin, a township of Juneau co.

Foun'tain, in Wisconsin, a township of Juneau co.

Fop, (1877) about 850.

Fountain City, in Visconsin, a post-village of Pueblo co.,

on the Arkansas River, about 8 m. above Winona.

Fountain City, in Wisconsin, a post-village of Buffalo

co., on the Mississippi River, about 8 m. above Winona.

Fountain Creek, in Tensessee, a P.O. of Maury co.

Fountain Green, in Illinois, a post-village of Han
cock co., about 10 m. N.E. of Curthage.

Fountain Green, in Maryland, a post-office of Har
ford co.

Fountain Green, in Utah, a post-village of San Pete co., about 28 m. N. of Manti. Foun'tain-head, s. The head or source of a foun-

Foun'tain-nead, n. The head of source of a fountain; primary source; original; first principle.

Fountain Hill, in Arkansas, a post-village, former cap, of Ashley co., about 155 m. S.R. of Little Rock.

Foun'tainless, a. That has no fountain.

Foun'tain-pen, n. A writing-pen with a reservoir

Fountain Prairie, in Wisconsin, a township of

Columbia co.

—(Formerly Fall River,) a post-village of Columbia co.

—Fountain Run, in Kentacky, a post-village of Mon-

roe co.

Pountain Spring, in W. Virginia, a P.O. of Wood co.

Pountain Spring, in W. Virginia, a P.O. of Wood co.

Pountain Spring, in W. Virginia, a P.O. of Wood co.

An execrable monster of the French Revolution, B. 1747.

His early career was immoral, but insignificant. On the outbreak of the Revolution, he figured as one of the flercest democrats. By Robespierre he was appointed, first, a member, then director and public accuser, of the Revolutionary Tribunal. Without education, conscience, or sense of justice, he executed with brutal apathy the bloody orders of the Committee of Public Safety. In bloody orders of the Committee of Public Safety. In reference to this feature of his character, his countrymen say that "he had no soul—not even that of a tiger, which at least pretends to be pleased with what it deavours." Incapable of friendship, or of anything even remotely allied to generosity, he systematically abandoned his successive coadjutors in their hour of need, and sent to the scaffold, without the slightest compunction, Bailly and Vergniaud, Danton and Hebert, Robespierre and St. Just. He himself died by the guillotine, in a cowardly manner, May 7, 1795.

FOURT, a. [A. S. Jeower; Lat. qualur; Ger. vier; Sansk. cateur.] Twice two.

Pourche A Dumas, (foorsh-a-doo-ma',) in Missouri and Arkansus, a small stream rising in Ripley co. in the former State, and joining the Big Black River just above the village of Pocahontas in Randolph co., Arkansas.

Fourche A Reymault, (foorsh-a-ra-na',) in Missouri, a post-village of Washington co., abt. 65 m. 8.W. of St. Lonis.

Fourche La Fave, (foorsh-la-fav',) in Arkansas, en-ters the Arkansas River from Perry co.

talent is estimated by the grade or rank which the indi-vidual occupies in the several groups of laborers to which he or she belongs. The remuneration, when received, would not of necessity be expended or enjoyed in com-mon. The system however, as a whole, is so complex, that Fourier himself never admitted that even the most would not of necessity be expended or enjoyed in common. The system, however, as a whole, is so complex, that Fourier himself never admitted that even the most ardent of his disciples understood it; and to the last he would sanction nothing as an announcement of his views that he had not himself written. An attempt was made to carry out Fourier's views practically in the neighborhood of the small town of Ramboullet, easily accessible from Paris. About \$100,000 is said to have been expended in the attempt, which proved a failure. Fourierism is "the most skilfully combined, and with the greatest foresight of objections, of all the forms of socialism." It "does no violence to any of the general laws by which human action, even in the present imperfect state of moral and intellectual cultivation, is influenced; and it would be extremely rash to pronounce it incapable of success, or unfitted to realize a great part of the hopes founded on it by its partisans."—Ref. Englighted Britansica, art. COMENDISM, (PRINGILES OF.)

Four incidence, in Wisconsia, a chain of lakes in Danco, known respectively as First, Second, Third, and Fourth lakes. First Lake, the smallest and lowest of the chain, is about 3 m. long by 2 m. wide, and lowest of the chain, is about 3 m. long by 2 m. wide, and has its outlet in Catfish River; Second Lake, about 4 m. N.W., and communicating by means of a small stream, is 3½ m. long by 2 broad; Third Lake, about 1 m. N.W. of the last, is shout by m. long by 2 m. wide, inally, Fourth Lake, the largest and most beautiful, is 6 m. long by 4 wide, and separated from Third Lake by a narrow strip of land, upon which Madison, the capital of the State, is built. The waters of these lakes are cold and pure, and mostly navigable for small steamers. The two last are now called lakes Monona and Mendota.

Four Hile, in Lowa, a township of Polk co.

Four Mile, in Lowa, a township of Polk co.

at the same birth.

Four Mile, in Iosa, a township of Polk co.

Four Mile, in Colorado, a post-office of Routt co.

Four Mile, in Kassas, a township of Morris co.

Four Mile, in Wiccossis, a post-office of Fond du Lac co.

Four Mile Creek, in Michigan, enters the Kalamazoo river in Kalamazoo co

Four Mile Creek, in Okio, enters the Miami river in Butler co.

Fourmeau (foor'nō), n. [Fr.] (Mil.) The chamber of a mine in which the powder is placed.

Fourme'tite, n. (Min.) A mixture of galenite with copper ore. See Galenite.

copper ore. See GALENITE.

Our mi Islands, a group of about 20 small islands in the Grecian Archipelago, between Nicaria and Samos, on the eastern coast of Asiatic Turkey. The largest of

these islets is about 5 m. in circuit.

Four Oaks, in Kentucky, a post-office of Pendleton co.

Four Oaks, in North Carolina, a post-township of

Four Oaks, in North Carotina, a post-township of Johnson co.

Four pence, a. A British silver coin; a great.

Four score, a. Four times twenty; eighty.

Four square, a. Having four sides and four angles equal; quadrangular.

Four teem, a. [Four and ten; A. S. Jeomertyme.] Four and ten; twice seven.

Four teemth, a. The ordinal of 14; the fourth after the tenth.

—n. (Mus.) An interval embracing an octave and a 7th. Four teem Mile Creek, in Indiana, enters the Ohio

in Clarke co.

Four'teen Mile Creek, in Musissippi, enters Big Black River in Hinds co.

Black River in minus co.

Fourth, a. Ordinal of 4; the next after the third.

-n. (Mus.) A distance comprising three distonic intervals.
There are three kinds of fourths; viz., the diminished F., composed of a whole tone and two semitones; the perfect F., consisting of two whole tones and a semitone; and the extreme sharp or superfluous F., consisting of these whole tones.

and the extreme sharp or superstands r., consisting of three whole tones.

Fourth Cross'ing, in California, a post-village of Calaveras co., abt. 14 m. S. of Mokelumne Hill.

Fourth Lake, in Wisconsin. See Four Lakes.

Fourth'sy, adv. In the fourth place.

Fourth-rate, n. A vessel of war carrying from 50 to 70 cms.

Four Towns, in Michigan, a P. O. of Oakland co. Four-way cock, n. (Engineering.) A cock having two separate passages in the plug, and communicating with four pipes.

with four pipes.

Four'swheeled, a. Having four wheels.

Four'sel-oil, n. See ANYLE.

Four'ser, n. A despicable fellow.

Four'sy, a. [O. Fr. foulu.] Despicable. (Vulgar.)

Fo'veate, a. [Lat. forea, a small pit.] (Bot.) Deeply pitted.

pitted.

Fove'olate, a. [Dim. of foveate.] (Bot.) That has small

holes or depressions.

Fovilla, (fo-villa,) n. [Lat. foven, to nourish.] (Bot.)

The matter contained within the membranes of the pol-

The matter contained within the membranes of the pollen-grains. It is a semi-fluid granular protoplam, in which are suspended very minute starch granules, and what appear to be oil globules. It is, without doubt, the essential part of the pollen-grain. (See Pollen.)
Fowl, m. [A. S. fugel, to fly.] In its general sense, this term is nearly synonymous with birds; but in a more restricted sense it means those domestic birds brought up in a farmyard for the table. Fowls originally came from Persia and India, and they are valuable to the breeder in many ways, yielding profit as they do in eggs, in broods, and in feathers. The principal kinds of this

useful domestic creature are: 1. The Game Floot, with erect and slender body and showy colors, valued also for the delicacy of the flesh and of the eggs, although the latter are rather small. It is this breed which is used for cock-fighting; and so excessive is the pugnacity which characterizes it, that broads scarcely feathered are occasionally found to have request themselves to nuter plind. sionally found to have reduced themselves to utter blindiness by their combats. Some poultry-keepers think it good to have a game-cock in their poultry-yard, on account of the improvement of the quality of the fowls sent to the table; but it is almost needless to say, he must, like the prototype of Robinson Crusoe, be sole monarch of all he surveys. 2. The Dorking Flowl, so named from Dorking, in Surrey, where it has long been bred in great numbers for the London market — a breed characterized by an additional spur on each leg: often of a white color, with short legs; one of the most useful of all breeds, both for excellence of flesh and for abundance of eggs. 3. The Polish Flowl, black, with a white tuft, a breed very extensively reared in France, Egypt, &c., little inclined to incustion, but valued for an aimost uninterrupted laying of eggs. 4. The Spanish F, sionally found to have reduced themselves to utter blind ac., httle inclined to inclination, not valued for an aimost uninterrupted laying of eggs. 4. The Spanish F, very similar to the Polish, but larger, and laying larger eggs, on account of which it is now much valued, and very common in Britain; black, with white checks and large red comb. 5. The Malay Frod, tell and handsome, very pugnacious, but little esteemed. 6. The Hamburg F,

FOWL

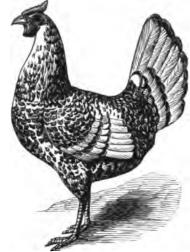


Fig. 1053. - SILVER-SPANGLED HAMBURG FOWL (HEN).

Fig. 1063. — SILVER-SPANGLED HAMBURG FOWL (HEN).

(Fig. 1063), of very beautiful plumage, and much valued for the quality both of fiesh and eggs, as also for extreme productiveness of eggs. 7. The Orchin China F., (see GALUS,) a large, tall, ungraceful variety, with small tail and wings, for which there was a great rage among poultry-fanciers when it was introduced, more particularly about the year 1852, and which is valuable chiefly on account of its fecundity, eggs being laid even during winter, and the hens incubating frequently. 8. The Bantam Food, a diminutive variety, rather curious than useful. — Of most of these there are many subvarieties and fancy breads — gold-pencilled, silver-pencilled, &c. The common Dunghill Fool is apparently a breed produced by the intermixture of others, and perhaps chiefly a less graceful, less spirited, and less pugnacious race of the Game Fowl. The Guinea Fool, or Pintado, is sometimes classed among the common order of fowls; they are very wild and restless in their nature, and, unlike the ordinary fowls, they give no notice to any one of their laying or sitting; they have consequently to be closely watched. The Guinea F is very delicate cating, and is in season about Lent. Their eggs are something like those of turkeys, but not so gross. As the Guinea Fowl rarely watches over her nest and rears a brood, its eggs are generally put under a common hen, which performs in a satisfactory manner the duties of Guines Fowl rarely watches over her nest and rears a brood, its eggs are generally put under a common hen which performs in a satisfactory manner the duties of foster mother. For a complete list and description of pure breeds of domestic fowls, see Fowls, DOMESTIC, in Section II. See also HATCHING, POULTRY, &C.

Fowl, v. n. To catch or kill wild fowls for game or food.

Fowl'er, n. A sportsman who pursues wild fowls, or takes or kills them for food.

Fowler: in Illinois a post-office of Adams co.

Fowl'er, a. A sportsman who pursues wild fowls, or takes or kills them for food.

Fowler, in Illinois, a post-office of Adams co.

Fowl'er, in New York, a post-town of St. Lawrence co., on the Oswegatchie river, about 27 m. S.W. of Canton.

Pop. (1890) 1.592.

Fowler, in Ohio, a post-township of Trumbull co., about 160 m. N.E. of Columbus.

It is the transport of the Columbus.

Fowl'er it is in West Virginia, a post-office of Brooke co. Fowler's Mills, in Ohio, a post-village of Geauga co., about 170 m. N.E. of Columbus.

Fowl'erville, in Michigan, a post-village of Livingston co., on the Red Cedar river, about 27 m. E. by S. of Columbus.

Fowl'erville, in Minnesota, a post-office of Rice co. ges. Fowl'erville, in New York, a post-office of Livingston county.

ing fowls or birds; also, falcoury.

Fowl'ing-plece, m. A light gun for shooting fowls or birds.

Fox, George, the founder of the Society of Frienda, a. 1624 at Drayton in Leicestershire, England. His father was a weaver, and by the strict honesty of his conduct had won from his neighbors the sobriquet of "Righteoss Christer." George, while yet a boy, was distinguished by his gravity and exemplary conduct. When in the twentieth year of his age, and for some two or three years afterwards, Fox describes himself as having been in a very distressed state of mind, from which the various professors and clergymen to whom he applied for consel were unable to relieve him. From this condition bewas at length delivered by that which he regarded as the voice of God in his soul, directing him to Christ as alone able "to speak to his condition." Very soon after this he commenced his public ministrations at Dukinfield, Manchester, and the neighborhood. From the first, his preaching seems to have made many converts and excited much opposition. Fox's first imprisonment took place in the year 164%, in consequence of his opposing the preacher in "the great steeple-house at Notting-ham," on a point of doctrine. In 1650 he was imprisoned at Derby under a false charge of blasphemy. One of the committing justices, Bennet, acted with great violence on this occasion, and it was he who on Fox's bidding him "tremble at the word of the Lord," first applied to him and his friends the name of Quakers. Fox lay is prison at Derby for about a year, the time having been lengthened in consequence of his refusal to accept a commission as captain of one of the regiments then being raised by Parliament. To his belief of the unlawfulness of all war, which prompted this refusal, was added at the same time a clear view of the pennishment of death for crimes affecting property only, and he exerted himself to save the life of a poor woman then in jail for theft. Within ten years of Fox's first appearance as a preacher, meetings of the Friends were estab first appearance as a preacher, meetings of the Friends were established in most parts of England. At the same time, so actively were they persecuted, that for many years there were seldom less than a thousand of them in prison. Cromwell, though himself favorable to liberty of conscience, seems to have been unable to curb the excesses of popular hostility launched in all quarters against a sect which denounced all state interfereese with religion, and maintained that the gospel should be preached without fee or reward. Fox had several interviews with the Protector, having been first sent to him as a dangerous person, by Colonel Hacker, in 1654. After much conversation with him at Whitehall on the subject of religion, Fox was about to leave, when Cromwell caught him by the hand, saying — "Come again to my house, for if thou and I were but an hour of a day together, we should be neare one to the other:" adding that he wished him "no more ill than he did to his own soul." Captain Drury, who had taken Fox to London, was commissioned to tell him that he was at liberty, and might go whither he would. About a month after the restoration of Charles IL, Fox was committed to Laccaster Castle, "on the charge of being a common disturber of the peace, and of endeavoring to make insurrection and embroil the whole kingdom in blood." After lying jail some months, a habeas corpus was obtained, and the authorities showed their disbelief of these grave charges by allowing Fox himself, unbailed and unguarded, to convey to London the sheriff's return to the writ. The hopes entertained by the members of the young society that they would be allowed a bresthing-time from persecution, were dispelled at the commencement of 1661, by the atrocious measures which followed the mad attempt of Venner and his Fifth-Monarchy men. The Act empowering magistrates to tender the oaths of alegiance and supremacy to any person whom they thought fit to suspect, also operated with great severity against the Friends: under its provisions Fox was committe

Digitized by GOOG

belief in all the great doctrines of Christianity,—a statement clearly disproving their alleged sympathy with Socialau tenets. After a considerable time spent in Baradoes, Jamaica, and the North American continent, he returned to England in 1673. Here further persecutions awaited him. Arrested for holding a meeting for worship, and detained for refusing to take the oaths of allegiance and supremacy, he underwest 14 months imprisonment, and was at length liberated by the Court of King's Beach on account of the errors in his indictment. In 1677, in company with Penn and Barclay, who had joined the Society about ten years before, he paid a visit to Holland and some parts of Germany, where his services seem to have been well received. The last 15 years of his life were tranquill as regards personal molestation, but he continued to be actively engaged in various ways in promoting the welfare of his brethren. Their persecutions continued throughout the reign of Charles II.; and although James, by a stretch of the royal prerogativa ordered a general release of those imprisoned for conscience sake, the legal toleration of dissent was reserved for the next reign. In the first year of William and Mary was passed the bill which mullified the conventice acts, and allowed the Friends to make a solemn declaration in lieu of taking the oaths, and Fox had the gratification of seeing the public worship of the 80-city legally recognized before his death. D. 1690. In person, Fox was tail; in countenance, manly, intelligent, and graceful; and in manners, says Wm. Penn, "civil beyond all forms of breeding," Fox's services in the Christian church will be variously estimated according to the opinions formed of those principles and practices on which have now for 200 years distinguished the Society of Friends. The man himself must, however, be acto the opinions formed of those principles and practices on which he was the first in modern times to insist, and which have now for 200 years distinguished the Society of Friends. The man himself must, however, be acknowledged by all to have furnished a noble example of unfinching integrity. Never would he barter an lota of what he regarded as the Christian trath, to secure insumity from ridicule and persecution. On religious liberty, slavery, the treatment of prisoners, capital punishment, &c., his sentiments were far in advance of the age; while in regard to oaths and war, there has been a considerable approximation to his views in later times. All that he did and wrote is not to be defended, neither did he himself, nor do his followers in religious profesion, regard him as other than a fallible mortal; yet in that progress of opinion, which so often rubs the gilt from the tinsel, while it polishes the diamond, we are fain to believe that on a more faithful page than that of the prejudiced historian — in the hearts of the lowly and sincere — will a place of honor be more and more freely accorded to the memory of Go. Fox.

Fex. CERRLES JAMES, a celebrated English statesman and orator, a 1748. He received his education at Westminster, Eton, and Oxford, where his proficiency in classical literature attracted considerable notice. It was the intention of his father Lord Holland, who had a high opinion of his capacity, that he should occupy a prominent station in the political world, and he accordingly procured for him a seat in parliament for the borough of Midhurst, when he was only 19. He, however, prudently remained silent till he had attained the legal age of a member, and then we find him, in 1770, alding the ministry, who rewarded him with the office of one of the lords



Fig. 1054. — CHARLES JAMES POX.

of the Admiralty; but he resigned that position in 1772 and the state of t entered the lists of opposition, and throughout the whote of the American war proved a most powerful antagonist to the ministers of that period. He forstold the defeat of the British armies in America, and saw his prophecies one by one failfilled. On the downfall of Lord North he was appointed, in 1782, one of the secretaries of state, which stration he resigned on the death of the marquis of Rockingham; when the earl of Shelburne, afterwards margine of Landowne was appointed to succeed him. marquis of Lansdowne, was appointed to succeed him.
On the dissolution of that short-lived administration, he
formed the coalition with Lord North (a coalition which was odious to the great mass of the people), and resumed his former office. He now brought in his India bill, which, after having passed the House of Commons, was managed the House of Lords, and occasioned the resignation of the ministry, of which he formed a part. Pitt then came into power, while P. placed himself at the head of the opposition, and a long contest took place between these illustrious rivals. Worn out, and perhaps disgusted with public business, he, in 1788, repaired to the Continent, in company with Mrs. P., and after spending a few days with Gibbon the historian, at Lausanne, entered the classic regions of Italy. In consequence, however, of the sudden illness of the king, and the probable necessity of constituting a regency, he was soon recalled. The regency bill, the trial of Mr. Hastings, and, above all, the French revolution, and its effects on his country, gave ample scoption,

of the king, and the probable necessity of constituting a regency, he was soon recalled. The regency bill, the trial of Mr. Hastings, and, above all, the French revolution, and its effects on his country, gave ample scope for his talents and eloquence, which he continued to exert against the administration of Pitt, inveighing against the war with France, and denouncing the measures of his great rival on every subject of importance. However men may differ as to the soundness of F's political views, no one denies that he was a sincere friend to the freedom and best interests of mankind, or that in private life a more amiable and pleasant companion could not be found. In the senate he was argumentative, bold, and energetic; in the domestic circle, no one was more ingenuous, bland, and courteous. His literary abilities were of a high order; and had he lived in less stirring times, there is every probability his country would have benefited by his writings. As it was, heleft little behind him but his eloquent specches, and The History of the Early Part of the Reign of James 11. On the death of Pitt he was again recalled to power, and set on foot a negotiation for peace with France, but did not live to see the issue of it. D. 1806.

Fox., n. [A.S. fox; Ger. fuchs; Goth. fauho. The root is found in 0. Ger. and Goth. fahan, Icel. fanga, to seize. Pers. rabah, a robber, allied to Gr. alöpez, and to Sansk. Löpez, and to Gansk. Löpez, and to Ger. In the wolf and dog; but according to the most recent classifications of the mammalia, it is separated from these animals, and placed in the gen. Vulpez. In many particulars, it is true, the F. greatly resembles the gen. Units; but the shape of the pupil of the eye (which is elongated), the buillet-head, the bushy tail, the long body, supported on short limbs—all these characteristics fully establish the soundiness and correctness of the position to which the F. is assigned by the modern to be the



and tip of tail white, feet and ears black. The P. varies considerably in size, but, in general, measures about 42 inches from the snout to the end of the tail, which latter is 16 inches in length, and the height of the shoulders about 14 inches. The P. seems to be wholly devoid of that instinct of gratitude which characterizes the dog, and is even found in the wolf and Jackai; nay, whatever kindness may be shown him when in a state of confinement, he is still sly, timid, and suspicious, insusceptible, as it would seem, of any kind of attachment. His voice is a kind of yelp, or stified bark, and his bite is very severe and dangerous. The fetid odor of the P. is



Fig. 1056. — american red fox, ( Vulpus fulvus.)

intolerable; his sight is keen; and he possesses astonishing acuteness of smell. The time of gestation is about sixty-three days; and while the female is suckling her young, nothing can exceed her courage and boldness. The F, unmolested, will live 12 or 14 years. In the first year he is called a cub; the second, a F; and the third, an odd F. he is 18 months, or nearly 2 years old, before he arrives at full maturity. The skin makes a warm

and soft fur, and is therefore used for muffs, linings, &c.—The Arctic Fox, V. Lagopus, is smaller than the common F, with a sharp nose, and short rounded ears, almost hid in its fur; the legs are short, and the toes are covered, both above and below, with a very thick soft fur; the tail is shorter than that of the common F, but more bushy. It inhabits the countries bordering on the Frozen Ocean in both continents. At the approach of winter their coat of hair becomes thick and ragged, till at length it grows perfectly white.

Fox, n. A sly, cunning fellow.

-v. a. To repair, as boots, by adding new soles, and covering the feet with new leather.

-v. a. To turn sour in the act of fermentation, as beer, &c.

Fox, in Illinois, a post-ownship of Kendall co. Pop. (1897) about 1,280.

Fox, in Indiana, a post-office of Grant co.

Fox, in Indiana, a post-office of Grant co.

wiith Pocahontas co.

-A township of Black Hawk co.

with Pocanontas co.

—A township of Black Hawk co.

Fox, in Missouri, a post-office of Ray co.

Fox, in Ohio, a township of Carroll co.

Fox, in Pessagirasio, a township of Sullivan co.

—A township of Elk co.

—A township of Elk co.

—A township of Norfolk co., about 21 m. S.S.W. of Boston. Pop. (1985) 3,219.

Fox'-brush, s. The tail of a fox, cut off the dead animal after a chase, and presented as a trophy to the first who is up at the finish.

Fox'-brush, in Pessagirasia, a post-village of Clarion co., on the Allegheny river, at the mouth of Clarion river. Pop. (1887) about 750.

Fox'-case, s. The skin of a fox.

Fox Cham'mel, a strait of British N. America, between Melville Peninsula and Southampton Islands on the W., and an unexplored country on the B.

Fox chase, in Pensagirasia, a village now within the chartered limits of Philadelphia, about 9 m. N.N.E. of the State-House.

chartered limits of Philadelphia, about 9 m. N.N.E. of
the State-House.

Fox Creek, in Missouri, a post-village of St. Louis co.,
about 28 m. W. of St. Louis.

Fox Creft, in Maine, a post-village and township of
Piscataquis co., on the Piscataquis River, about 60 m.
N.N.E. of Augusta; pop. of township about 1,500.

Foxed, a. Furnished with new soles and feet, as boots.

— Soured in fermentation, as beer.

Fox-evil, a. One of the numerous local names for
alopecia, or falling of the hair.

Fox-grape, n. (Bot.) See Distrals.

Fox-grape, n. (Bot.) See Vitis.

Fox-hound, n. A species of dog used in the sport of
fox-hunting. An extraordinary amount of care and attention has been given in Europe to the proper breeding of this animal; and no pack can be justly considered.



Fig. 1057. - POX-HOUND.

Fig. 1087.—POX-HOUND.

perfect without each particular animal composing it being especially picked out as adhering to the rules laid down for the guidance of dog-fanciers. In the true foxhound, nearly all the individual good qualities which distinguish other varieties of dogs are combined; and in flectness, strength, fine secut, spirit, persevance, and subordination, they have no equals. The fox-hound is not a very large animal, his height averaging from twenty to twenty-two inches. The color of the fox-hound is generally pied—such as yellow, black, dun, fallow and brown intermixed. In order to be perfect, an old authority on the chase observes, that the animal should be of the following proportions: his legs straight as arrows; his feet round, and of medium size; his as arrows; his feet round, and of medium size; his shoulders black; his breast wide; his chest deep; his back broad; his head small; his neck thin; and his tail bushy, thick, and well-carried.

ox'-hunting, Fox-hunt, n. The sport of hunt-

ing foxes; engaged or occupied with such sport of hunting foxes; engaged or occupied with such sport.

Fox Indians. See Sacs.

Fox Islands, or Aleutian Islands. See Aleutian

FOX Islands, or Albutian Islands. See Albutian Islands. See Albutian Islands. In Wisconsin, a post-village and township on a lake of the same name, about 50 m. N.N.E. of Madison; p-p. of township about 2,500. Fox Lake, or WAUSHARA, in Wisconsin, a small sheet of water in Dodge co.
Fox Gom, in Culifornia, a village of Santa Barbara co., about 40 m. N.W. of Santa Barbara.
Fox Elver, (Grara and Little,)-two rivers of Lower Canada, entering the Gulf of St. Lawrence from Gapé district.

Fox River, in Issa, a township of Davis co.
Fox River, in Issa and Missouri, rises in Davis co.
in the former State, and enters the Mississippi in Clarke
co., Missouri. It is also known as Aromaric River.
Fox River, in Wiscomin, enters Green Bay from
Brown co. It connects Lake Winnebago with Green
Bay, and was called by the Indians NENAR.
Fox Rivers in Wiscomin a near-office of Kengelage.

Bay, and was called by the Indians NENAH.

Fox River, in Wisconsin, a post-office of Kenosha co.

Fox River, or PISHTAL'A, in Wisconsin and Illinois, rises in Wankesha co., in the former State, and flowing generally S. by S.W., joins the Illinois River at Ottawa in La Salle co., Illinois. Length, about 200 m.

Fox'tail-grass, n. (Bat.) See Aldrectus;
Fox'yille, in Virginia, a post-illage of Fauquier co., on the Rappahannock River, about 110 m. W.N.W. of Richmond.

on the Ka Richmond

PORVIDE, in Wisconsis, a village of Dane co., abt. 15 m. W. of Madison.

FOR'y, a. Pertaining to foxes; wily; cunning; subtle; as, a foxy disposition. — Having too much the color of a fox in the shading, as a painting. — Sour; acid; disagreeable to the taste, as wine, beer, &c., when not thoroughly formanted.

thoroughly fermented.

Toy, MAXIMILEN SEBASTIEN, a French general and oractor, B. at Ham, 1775. He entered the army at 15 years of age, and made his first campaign under Dumouries in 1792. He displayed his military talents to great advantage in Italy, Germany, and Portugal; and succeeded Marmont as commander-in-chief after the battle of Sala-Marmont as commander-in-chief after the battle of Salamanca, when he conducted a skilful retreat to the Douro. He received his 15th wound on the field of Waterloo, but refused to quit his post until the close of that engagement. He was afterwards employed as inspectorgeneral of infantry; and in 1819 was elected a member of the Chamber of Deputies; where he distinguished himself as an orator, and was a great public favorite. He died in 1825; and h wing left his widow and family in detitute disconnected was the property of the statement of the st destitute circumstances, a most liberal subscription was immediately entered into, to provide for them, and to erect a monument to his memory. From his MSS, a History of the Prainsular War has been published by his widow.

Misory of the remnantar war has been published by his widow.

Foy'ers, a river of Scotland, co. Inverness, falling in Loch Ness. It is noted for its fine cataract called the Foyle, a river of Ireland, formed by the junction of the Finn and Mourne at Lifford, which, after a N. course of about 14 m., expands into Lough Foyle, q v.

Foyle, (Lough,) an arm of the North Channel between Donegal and Londonderry, Ireland, It receives the waters of the river Koyle. Length, sixt. 18 m. by 9 in width.

Fraces, n. [Fr., from fracaser, to treak in pieces, from Lat. fra, i. e. inter, among, and cassare, freq. of quatere, to break with violence.] An uproar; a noisy quarrel; a disturbance; a brawl.

Frache, (frash, n. (Glassworks.) Flat iron pans into which the glass vessels already formed are put, to be placed in the lower oven, over the working-furnace.

Fract'ed, a. (Her.) Broken asunder.

Fraction, (Her.) Broken asunder.
Fraction, (Frak'shun,) n. [Fr., from Lat. fractio, a breaking, from frangere, to break.] State of being broken, especially by violence.

"The evident marks of fraction and ruin." - Burnet.

-A part, portion, or fragment.

"The fractions of her faith." - Shake

"The fractions of her fath."—Shake.

(Arith. and Alg.) A part of any magnitude, integer (whole number), or unit. For example, "two and a fraction" means two units and that part of a unit which can be distinguished, as one-half, two-fifths, and so on. In the fraction is in arithmetic, or a in algebra, the figure 1, or a, is the numerator, and 3, or b, is the demominator; and they represent that, if a whole number is divided into three or b parts, only one or a parts are taken. In the addition of fractions, the fractions must be brought down to the same denominator, and their be brought down to the same denominator, and their numerators (as expressed in the value of their new de-nominator) must then be added, when we have one whole fraction. Thus, if we want to add \( \frac{1}{2} \) and \( \frac{3}{2} \), we must find the least common multiple of 3 and \( \frac{3}{2} \), which is found to be 15; then, as 3 goes 5 times into 15, and 5 goes 3 times into the same number, we multiply the numerators of the different fractions by these respectively. tive quotients, and then add the two quantities together. Thus, // added to \( \frac{2}{3}\) will be \( \frac{5}{3}\) added \( 6\) \( \frac{7}{3}\) will be \( \frac{5}{3}\) added \( 6\) \( \frac{7}{3}\) fraction may be thus summed up:—
It is the division of its numerator by its denominator;
as \( \frac{5}{3}\) that are equivalent to the whole number 7 It is the division of its numerator by its uchominator, as scenerigiths are equivalent to the whole number? divided by 8,—whence a fraction is obtained. Decimal fractions simplify calculations greatly, as they are constructed on the principle of having one common denominator—as multiple of ten: and thus fractions can be added, subtracted, and divided without repeating over and over the tedious process of bringing them down to a common denominator.—See Arithuric and Decimals. Fractional, a. Belonging to a fraction or broken number.

to break.] A breach in any body, especially a breach caused by violence; a rupture of a solid body.
"Without any great fracture of the most stable parts of mature."

(Sury.) The term applied to broken bones. This is one of the commonest accidents to which one is liable, especially in very cold weather, when the bones are very brittle, and in certain conditions of the bones themselves. Fractures are divided into simple, compound, comminuted, and complicated. Simple fractures are those in which the fracture does not communicate with the external air. These are by far the most common, and usually affect the shaft of long bones, this part being the most subject to injuries of this description. Compound fractures are those in which one or more bones are broken, and the fracture communicates with the external air by means of a wound in the soft parts. the external air by means of a wound in the soft parts.

Comminuted fractures are those in which the bones are broken into several portions; while complicated fractures are such as are complicated with some other injury—as a wound of the principal artery of the limb. Fractures are also distinguished as transverse, oblique, or longitudinal, according to their direction. A trans-Frictures are also distinguished as transverse, oblique, or longitudinal, according to their direction. A transverse fracture is usually much more easily treated than an oblique; for the parts, when placed in opposition, may be kept there without much difficulty; whereas, in the latter case, they are liable to be displaced by the movements of the muscles or parts; also, in the latter case, the contiguous soft parts are much more liable to be lacerated by broken edges of the bone than in the former. In treating the oblique fracture, the limb should, if possible, be placed in such a position as will relax the principal muscles connected with the bone; in the transverse fracture, the straight position is often the best. The general symptoms of a fracture are dein the transverse fracture, the straight position is often the best. The general symptoms of a fracture are deformity of the limit, caused either by the overlapping of the bones, or effusion of blood, lymph, or serum into the cellular tissue; shortening of the limb; and crepitus, or a grating sound when the ends of the fractured bone are moved upon each other. The treatment of fractures consists in retaining the broken fragments, as nearly as possible, in their former positions, and securing them in that state. Where displacement has taken place, it is first of all necessary to soothe the mucular irritation by means of gentle friction or warm fomentations, after which, by a gentle application of force, the bone is to be restored, as nearly as possible, to its proper position. which, by a gentle application of force, the bone is to be restored, as nearly as possible, to its proper position. When the limb has been reduced, or set, it is to be placed in phints, which are thin pleces of wood, or other material of the requisite firmness and length, shaped and hollowed out, so as to fit evenly without making undue pressure upon any part. The skin is to be protected by folds of linen, or thin soft pads a little wider than the splints, which are also useful to prevent them from slipping. These are to be bound upon the limb with a molerate degree of pressure, and they ought to be removed and re-adjusted occasionally, in order to defect and rectify any deviation that may be observable. The mode of healing, in simple fractures, differs little The mode of healing, in simple fractures, differs little from the manner in which bone is originally formed. Immediately after the fracture has taken place, a quantity of blood is poured out into the surrounding cellular tissue by the vessels of the adjoining structure. Inflamtity of blood is poured out into the surrounding cellular tissue by the vessels of the adjoining structure. Inflammation sets in, and the periosteum becomes thickened; lymph is poured out, by which the ends of the bones are united, and in which bony matter is formed, until a complete union is effected. The period taken for the accomplishment of this varies according to the bone broken, the age, constitution, &c., of the patient. It is quicker in children than in adults, and it is slowest in old age. Taking all ages, however, the time occupied is from two to eight or ten weeks. The treatment of compound fracture consists in placing the broken bones in opposition, and healing the external wound, so as to convert the compound into a simple fracture. This is best done, where it can be effected, by bringing the edges of the wound together with adhesive plaster, or with sutures if necessary. But the modes of pringing the edges of the wound together with adhesive plaster, or with sutures if necessary. But the modes of treatment in this, and the other complicated cases of fracture, are so varied, and depend in so great a measure upon the circumstances of each particular case, that our limits do not admit of our entering upon them; which is the less to be regretted, as they can only be properly treated at the hands of a skilful surgeon.

(Min.) The manner in which a mineral breaks and by which its texture is displayed; as, a fibrous, foliated,

by which he executes a superposition or concholdal fracture.

-r. a. To break; to burst asunder; to separate, as continuous parts; to crack; as, to fracture a stone, to tinuous parts; to fracture the skull.

Fractured, p. a. Broken; cracked.
Fra'des, a small island of Brazil, in All-Saints Bay,
abt. 25 m. N.W. of Bahia.

abt. 20 m. N.W. of Bahia.

"Fram Dia/vollo, ("The Devil's brother,") a Neapolitan robber, whose real name was Michael Pozzo. He began life as a stocking-maker, after which he became a friar, and in this capacity was the leader of a gang of banditti in Calabria. In 1799 he assisted Cardinal Ruffo, who Fractional, a. Belonging to a fraction or broken number.

Comprising a part or the parts of a unit.

Fractionary, a. Fractional; relating to, or consisting of fractions.

Fractions, a. [Lat. fractus, pp. of frangere, to break.] Apt to break out into a quarrel; apt to fall into a passion; snappish; peevish; cross; quarrelsome.

Fractionsly, ade. Passionately; snappishly.

Bonapartitate, he was taken prisoner, condemned, and summarily executed in the same year.—Auber, the Fracture, and Passional Pa

to several membranous folds, which bridle and retain

certain organs.

Frangas, a town of Spain, prov. Aragon, on the borders of Catalonia, 55 in 8.E. of Huesca; pop. about 5,000.

Franga'ria, n. [Lat. fragrare, to emit a smell.] (Bd.)
The Strawberry plant, a genue of the order Rosacze.
Two species are natives of this country, namely, F. ezca, the Wood strawberry, and F. Francisco, the Rosaczet or Wild strawberry. The latter is very rarely met with in a wild state. From these and several foreign species, a great number of varieties have been developed. The fruit is remarkably wholesome, and is regarded by most people as the choicest of our native fruits. In cultivating the strawberry, an open situation and a rich loamy soil are required. The planta, until the fruit is formed, demand copious supplies of water. The row-culture is most convenient, and frequent renewal insures vigorous plants and large fruit.

most convenient, and frequent renewal insures vigorous plants and large fruit.

Fragile, (frā'jil.) a. [Lat. fragilis, liable to break, easily broken, from frangere, to break, allied to 6r. rhemusthai, to burst or break.] Easily hroken; brittle; easily destroyed.—Liable to fail; infirm; weak; frail

"The fragile arm of man." — Addison.

Fragilely, adv. In a feeble, weak, or frail manner.

Fragility, n. [Fr. fragilite; Lat. fragilitas, from fragilits, vittle, frangers, to break. Brittleness; weakness.

Liability to fail; frailty; liability to fault; as, the fragility of fail; frailty; liability to fault; as, the fragility.

Lability to fail; frailty; liability to fault; as, the fra-gility of human nature.

Frag'ment, n. [Fr., from Lat. fragmentum, from fran-gere, to break.] A part broken off from a whole; a broken piece; a scrap.—An imperfect part; a small detached portion; as, the fragments of the writings of Alcœus.

Fragment'al, Frag'mentary, a. Composed of fragments.
Frag'mentarily, adv. Piecemeal.
Frag'mented, a. Broken into fragments or detached

Fragor, n. [Lat, from frangere, to break.] A loud, sudden sound; a noise; a crack; a crash.

"Pursued by hideous fragors." — Sandys.

Fragrance, Fragrancey, "- Sendge,
Fragrance, Fragrancey, s. [Fr., from Lat. fragrantia, from fragrare, to emit a scent, to smell, to rock; — allied to flagrare, to flame up, to burn.] Sweetness of smell; pleasing scent; grateful odor or perfama.
Fragrant, a. Emitting a smell or odor; throwing out or diffusing an agreeable odor; sweet-smelling: odorous; odoriferous; sweet-scented; balmy; spicy; aromatic.

"Their scent less fragrent than her breath." — Frier.

odoriferous; sweet-scented; balmy; spicy; aromatic.

"Their scent less fragment has breath."— Prier.

Frank[y-mantly, adv. With sweet scent or odor.

Frank[, (frale,) a. [Fr. frile, contr. from fragile, from Lat.
fragilia, brittle, weak.] Kasily broken; weak; easily
destroyed; perishable; not firm or durable; as, a frank
foundation, a frail body.—Weak in mind or resolution;
liable to error or deception.

Was a ford, and prome to error."— Scales.

"Man is free, and prone to error."

"Man is fred, and prose to error."— Teptor.

— 0. Fr. fraile, from L. Let. fracilism, a basket.] A basket made of rushes, principally for holding figs and raisins.— A rush for weaving baskets.

Frail'ly, ade. Weakly; infirmly.

Frail'dy, n. [From frail; Lat. fragilitas.] Biate or quality of being frail; weakness of resolution; infirmity; liableness to be deceived or seduced; weakness or instability; failing; feebleness.

"Frail'y, thy name is woman."—Shake.

Frailey, thy name is woman."—Shake.

"Praise, in Panasis weam."—Shaks.

Fraisehour, (frd'shar,) s. [O. Fr.; Fr. fraichear.]

Freshess; coolness. (a.)

Fraise, s. [Fr.] (Fart.) A defence consisting of pointed iron or wooden spikes, driven along the foot of the external slope of the parapet, or the top of the escarp, in a horizontal or inclined position, so as to prevent the works being escaladed.

Frailey, in Panasisonia, a township of Schuyikill country.

county

Frame's, in Transposma, a township of Schuyikill county.
Frame's, a. That may be framed.
Frambæ'sta, n (Med) A raspberry SeeYaws,
Frame, v. a. [A.S. fremman, gefremman, to form to make; allied to Lat. forma to shape, to fashion. See Form.] To make; to execute; to effect; to put together in a regular or orderly manner; to construct; to fabricate by orderly construction and union of various parts; to fit; to adjust; to make suitable.—To make or compose, as laws; to regulate; to shape; to conform.—To form and digest by thought, as ideas: to contrive; to plan; to devise, as a scheme; to invent; to fabricate.—To place in a frame; to surround with a frame.

—n. Anything framed or coutrived; anything made to inclose, surround, or support something else; the skeleton of a building; any fabric or structure composed of parts united; order; regularity; adjusted series or composition of parts; form; scheme; structure; system; constitution; contrivance; projection.

tion of parts; form; scheme; structure; system; constitution; contrivance; projection.—Particular state, as of the mind.

(Engineering.) The strong framework, outside the wheel, which supports the boller and machinery on the axes of a loconotive-engine.

Framme'-buridge, n. (Engineering.) A bridge built of beams of timber, and framed together, as it is technically called, in such a manner that any weight which may be placed on the structure exerts a crushing or pulling strain on the timbers in the direction of the grain of the wood; any disposition of the pieces that may cause a strain to be exerted on them transversely to the direction of the fibres of the material being carefully avoided. In making F.-B. of considerable span, the timbers are often put together to present the form of an arch, in the same manner in which centrings are formed on which arches of brickwork or masonry are constructed (see CENTRIME); but, in the majority of

bridges of this class, the weight is either thrown on a horisontal tie-beam by oblique timbers which support a pathway above, and are framed into the tie-beam abutting firmly against it, and transmitting the weight in the direction of its length, as in the bridge of Schaffhausen, on the Rhine, in which no outward thrust is exerted against the piers on which the tie-beam which supports the structure is laid; or, on the contrary, in some, a great part of the weight is thrown on the abutments of the bridge by diagonal struts through which a considerable outward thrust is conveyed against them. F.-B. are common in this country, where it may be said that this branch of the art has been brought to perfection. In erecting bridges of this description, care should be taken to prevent their decay, from exposure to the weather, as far as possible, by guarding against the settlement of water in the joints of the timbers, and to promote a free circulation of the air about the ends of the beams that rest on or are imbedded in the masonry of the whole mass. Fig. 1058 represents a simple and use



ful force of F.-B. It will be seen at once that a weight upon the bridge will exert a pulling strain upon the horizontal timer ab, and a crushing strain upon bc and ad, as well as upon the upper timbers, and that the main support is in ab, which must be torn as under before ad and bc can be bent or displaced to any considerable extent.

main support is in ab, which must be torn as under before a d and bc can be bent or displaced to any considerable extent.

Frammed, p. a. Made; fitted and united in due form; composed; devised; adjusted.

Framm'er, n. One who frames; a maker; a contriver.

Framm'er, n. One who frames; a maker; a contriver.

Framm'er, n. One who frames; a maker; a contriver.

Framm'er, n. The process of joining and fitting together any kind of work composed of a number of different parts, whether in wood or in metal. In carpentry, however, this is generally called joining, and the carpenter who is employed on such work is termed a jown. In such trades as mathematical, optical, philosophical, and other complex instrument-making, the workman who does fat-filed work, and fits all the parts, and puts the whole instrument together, is called the workman who does fat-filed work, and fits all the parts, and puts the work framing. In the watch-trade, the man who frames all the parts together and builds up the watch is called a finishr, and his work is called framing in other trades.

Frame'ing hame, in Massachasetta a poet-town and township of Middleex co., about 21 m. W. by S. of Boston. Pop. of township (1805) 9.239.

Frame, s. A French silver coin and money of account which forms the unit of the French monetary system, and has also been adopted as such by Belgium and Switzerland. The franc is coined of silver, nine-tenths fine, and weighs five grammes, its value being about 20 cents. The franc is divided into 100 centimes. There are in France silver coins of 3. 1, 1, 2, and 6 francis; and gold pieces of 20 and 40 francs. Sardinia has also adopted the French money-system, only that the franc is called Lira masoes.

Frames, (Francka), or VILLA-FRANCA-Do-INPERADO, a town of the standard mason of the standard mason on the standard mason of the standard mason.

ramen, (fran'ka.) or Villa-Franca-do-Imperador, a town of Brazil, abt. 270 m. N.N.E. of São-Paulo, on the

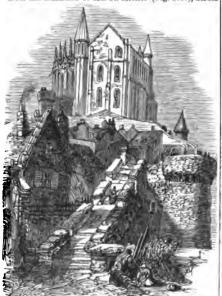
Framea, (frawka,) or VILLA-PRAKA-Do-LIFERADOR, a town of Brazil, abt. 270 m. N.N.E. of São-Paulo, on the Mugi.

Frameavilla, (fran-ka-vect'ya,) a town of S. Italy, prov. Otranto, in a fertile dist, 23 m. W.S.W. of Brindisi, and 17 E.N.E. of Tarento. Manuf. Woollens, cotton stockings, earthenware, and snuff. In 1734 this place was partially destroyed by an earthquake.

Framea, (REFUELIC 07.) one of the richest, most important, and powerful of the states of Europe, in the W. part of which it is advantageously situated, between Lat. 42° 20' and 51° 5' N. and Lon. 4° 60' W. and 8° 20' E.; having N.W. and N. the English Channel (La Monche, the Straits of Dover (Pau de Calais), and the Morth Sea; N.E. by a conventional line running from the Vosges to the North Sea, along the frontiers of Germany, the grand duchy of Luzemburg, and Belgium; E. the Alpa, and the Jura and Vosges mountains; S. the Mediterranean and Spain, and W. the Bay of Biscay and the Atlantic. France possesses its natural boundaries, except on the N.E., where its natural boundaries, except on the N.E., where its natural boundaries, except on the Mediterranean, the Alpa, and the Vosges tively along the English Channel, the Atlantic, the Pyrenees, the Mediterranean, the Alpa, and the Vosges mountains. Its greatest length N.W. to S.E. (from the extremity of the dep. Finisters to Nice on the Mediterranean) is abt. 664 m.; its maximum breadth (a line crossing the former nearly at right angles) is about 620 m. Length N. to S., Dunkerque to Perpignan, nearly 600 m.; greatest breadth E. to W., between lat. 48° and 49°, about 556 m.; least breadth E. to W. abt. its centre 335 m. Inclusive of Corsica, and the three depts. of Alpae Maritimes, Savoie, and Haute-Savoie, ceded to France by Italy, the total area is estimated, in the official tables published by the French govt, at abt. 52, 267, 656 bectares, or 204,091 sq. m. Polit. Die. France is divided into 57 departments — 59 previous to the German war of 1870-717—formed out of the provinces into which France wa

Departments.	Provinces.	Departments.	Old Provinces.
Nord  Pas de Calais. Semme. Seine-Inferienre; Seure-Ore; Calvados; Manche. Ardennes; Marne; Haute-Marue; Aube. Voages; Meurthe & Moselie; Meuse. The territory of Belfort. Ille-et-Vilaine; Côtes-du-Nord; Finiatere; Loire- Loire. Saribe; Mayeane. Indre-et-Loire. Vendes; Loire. Charente-Inferieure; Charente-Inferieure; Charente-Inferieure Charente-Inferieure Charente-Inferieure Charente-Inferieure Charente-Oise; Seine; Seine-et-Oise; Aisne. Loiret; Loire viewe. Loiret; Charente-Inferieure Charente-Oise; Loiret; Loir	Champagne- pagne- and-Brie. Lorraine and Bar. Aisace.  Bretagne.  Anjou. Anjou. Maine, and Ferche. Touraine. I Poitou, Aunis. Saintonge, and Angou- moia.  Isie of France.	Haute-Vieune; Correze. Correze. Coreuse. Alber. Her. Haute-Saone; Doubs; Jura. Yonne; Colte-Gor; Sabne-et-Loire; Ain. Dordogne; Gi- ronde; Lot; Lot- et-Garonne; Tarn-et-Garon- ne; Aveyron; Landes; Gers; Haute-Loire; Ar- deche: Lozere: Haute-Loire; Ar- deche: Lozere: Herauti; Gard; Tarn; Aude; Haute-Garonne, Basses-Pyrenees. Leère; Drome; Haute-Garonne, Loire. Leère; Drome; Haute-Alpes; Houches-du- Hhone; Var. Corsica, (Island of).	Limousio. Marche. Bourbonnais Nivernais. Franche Counte. Rurgundy, and Bresse. Guienne, and Gascony.  Languedoc. Bearn, and Navarre. Folx. Roussillon.
Loir; Loir-et-	Orleanais.	Newly Annexed L	
Indro; Cher Puy-de-Dôme; Cantal	Serri.	Alpes-Maritimes; Savoie; Haute- Savoie	Formerly part of Pledmont and Savoy

Gen. Desc. France is indebted not only to her large population, and the active spirit of her people, but in a great measure to her admirable geographical position, for her commanding influence in European affairs. Unlike any of the other States of Central Europe, she has the command of three seas, including those which wash both the N. and the S. shores of that continent. The N.W. coast presents the two considerable peninsulas of Brittany and Cotentin, the bay of St. Malo between them, the æstuaries of the Seine, and the harbors of Morlaix, Cherbourg, Havre, Boulogne, Calais, and Dunkerque. From the latter place to Calais, the shore is bordered by saudy downs (dunes). From the latter point to the mouth of the Seine, the coast is chiefly characterized by chalk and marl cliffs; further W., granitic cliffs alternate with low shelving shores. There is seldom deep water near the shore on this coast; the bay of Cancale near Avranches, for instance, being left nearly dry at elbb-tide, and passengers at such times go from the mainland to Mt. St. Michel (Fig. 1059), across France is indebted not only to her large



Plg. 1059. - MONT ST. MICHEL.

the sands in carriages. The W. part of this coast is beset with rocks, which are especially numerous between the months of the Seine and the Vire. Good harbors are few, and navigation is rendered dangerous by vioare few, and navigation is rendered dangerous by violent tides, the force of which is attested by numerous
sait marshes along the shore, produced by eruptions of
the sea. The W. coast, formed in part by the peninsula
of Brittany, is at first elevated, bold, and rock y, but gradnally declines toward the S.; and from the month of the
Gironde to the foot of the Pyrenees it presents an unbroken line of Landes, or sandy downs and marshes.
This coast is indented by numerous bays. The S. coast,
except its E. part, is generally low, sandy, and bordered,
where it surrounds the Gulf of Lyons, by numerous lagoous; and its harbors, excepting that of Toulon and
one or two others, are neither well sheltered nor easy of
access. Islands. Excepting those at the mouth of the

Rhone, the islands around F, and belonging to her, are of little importance. On the W coast the principal are Oleron Ré, Yeu, Noirmonter, Belle-lie, and Ouessant, (Ushant). In the Mediterranean are the isles of littlers, Ratoneau, Pomegue, &c., user Marseilles. In the channel are Bréshat and a few rocky groups in the Bay of St. Malo, of which Chansey is the principal. In the channel are Bréshat and a few rocky groups in the Bay of St. Malo, of which Chansey is the principal. Guernesy, Jersey, Alderney, &c., belong to Eng., and are the only remains of the extensive dominions the English once possessed in F.—Mountains. Of these the meet considerable are those of the Alps, Pyrenees, Ceremes, Auvergne, Jura, and the Vogges. The Alps between F. and Italy have for their principal summits. Ventoux, Génevre, Vise, and Pelvoux, respectively 9, 140, 9440, and nearly 11,000 feet high. Among the Cevennes are Lozère, 4,884, and Perdu, respectively 9, 140, 9,440, and nearly 11,000 feet high. Among the Cevennes are Lozère, 4,884, and Mexin, 5,744 feet high. The Auvergne have the Puy-de-Dûme, 4,806; Cantal, 6,100, and Mont-d'Or, 6,188 feet. It was in ascending the Puy-de-Dûme that Pascal's famous discovery was made, that at greater elevations the height of the column of the mercury in the barometer is diminished. The Jura, between P. and Switzerland, culminate in Reculet, 6,643 feet high, and the Vogges, between Lorraine and Alasce in the Ballou d'Alasce, 4,688 above the level of the sea. These summits are given as the highest only within the bondaries of F. Riverz. The principal are the Seine, Loire, Garonne, and Rhône. The Seine fails into the Egg. Channell, It is about 500 miles long. Its estuary and the lower parto it is about 500 miles long. Its estuary and the lower parto it is about 500 miles long. Its estuary and the lower parto its course is subject to the phenomenon of the formation of the Lore. The Garonne empties that the Bay of Biscay, It is alout 350 m. long, 244 of which are navigable. The Rhône is 538 m. long,

rtificial meadows 5** allow 10** fatural meadows 9** ineyards 4** hestnuts, olives, mulberry, &c. 0** asture and waste lands. 13** orest, water, roads, houses, and uncultivated. 23.	cent	Inder Cultivation.
ther " 5	30	rain crops
allow	00	ther "
allow	-00	rtificial meadows
atural meadows   97    ine-yards	80	
ineyards	50	atural meadows
hestnuts, olives, mulberry, &c	10	
asture and waste lands	20	
orest, water, roads, houses, and uncultivated 23.0	50	
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AFINVCIPE

F. has considerable mineral wealth. Iron is Misseals. F. has considerable mineral wealth. Iron is obtained in the greater number of departments. Coal is very widely diffused, and numense bede of salt, sufficient to supply the country for ages, exist in Lorraine. Silver, lead, copper, mercury, zinc, tin, manganese, aresuic, and other rarer numera are met with; and possessibilities of the property of the control of the cont

made up of a number of arrondissements, averaging about four. This division was introduced during the Revolution, and is still maintained, the departments about four. This division was introduced during the Revolution, and is still maintained, the departments being administrative areas named usually from their chief rivers or mountains. There are 87 of these divisions, each possessing an elected "general council," one member from each cauton. A prefect represents the state in the department, with considerable control over the decisions of the council, whose powers embrace the subjects of taxation and the promotion of institutions of public utility.—Justice. The judicial institutions of F. retain many vestiges of their ancient character, and greatly add to the political control of the government. There is a justice of the peace in each canton, with jurisdiction over small civil suits only; a court in each arrondissement before which matters of more importance are brought; and provisional courts of appeal for the hearing of all cases involving more than 1,000 france. There is also a tribunal of commerce in all places where mercantile disputes are likely to arise; tribunals of police, or petty courts, for the punishment of small delinquencies; and tribunals elected by the heads and the workmen of industrial establishments to settle questions arising within them. The Cour de Cassation, or highest court at present existing in the Freuch Republic, situated at Paris, takes cognizance of all appeals from the provincial courts of appeal. In criminal matters a destructive feature of the French judicial system is the secrecy of the preliminary investigation, which, conducted by a state functionary, may continue for highest court at present existing in the Freuch Republic, situated at Paris, takes cognizance of all appeals from the provincial courts of appeal. In criminal matters a destructive feature of the French judicial system is the secrecy of the preliminary investigation, which, conducted by a state functionary, may continue for mouths. No counsel for the defence is admitted until the case is brought into open court. There are no juries employed for minor offences, and the jurors of the assize courts are selected with great care from reputable citizens. They give majority verdicts. Appeal may be made to the court of casaction from the decisions of all jury trials.—Ediscation. The educational system of France is presided over by a minister of public instruction. There has been a long struggle between Church and State for its control, the dispute being settled in 1880 in favor of the State. Compulsory and free public education now exists under state control, the privileges of the Church having been abolished, and the teaching of "civic morality," from hand-books issued by the state, introduced. Secondary education may be obtained in lycées and government colleges, and higher education in the universities or facultés, where instruction of a high standard, and almost free, is given. Practically there is but one university in France, which comprises all the facultés. In addition there are church and other private echools, and such special institutions as the College de France, the Museum of Natural History, the Polytechnic School, and many others.—\*\*\*Letigion.\*\* The Roman Catholic is the dominant religion of F., and includes about muety-even per cent of the population; but there in no religious restriction, and every citizen is protected in the exercise of his religious opinions.—Finences. Ry the budget of 1896 the revenue of the state was estimated at 1898,653.18; the expenditures at \$689,583,640, of which \$243,958,210 were credited to the interest and other costs of the public debt, whose grand total amounted to \$6.207 Asia, all the eastern region of Indo-China, including Cambodia, Cochin China, Anam, and Tonquin, is under French control, the whole forming a large rich, and populous country.—Hist. Before the time of Ceear, the whole of F. was known to the Romans by the name of Transalpine Gaul; but after its conquest it was divided into the tour provinces of Provincia Romanorum (Provence), Gallica Aquitanica, Celtica, and Belgica. In the 5th century it was subdivided into 17 provinces, inclusive of all the territory on the E. bank of the Rhine. At the latter epoch the Germanic nations began to pour in an irresistille torrent over Gaul; the Visigoths established themselves in the W. and S. from the Loire to the Pyrenees, where they established a kingdom that lasted till about 540. The Burgundians, in a similar manner, settled in the E. from the Lake of Geneva to the Rhine, and afterwards stretched along the Rhone to the Mediterranean. The independent sovereignty they erected lasted until about 532. The Franks, whose dominion swallowed up those of both the foregoing tribes, had been long settled in the N.; and Pharamond, their chief in 420, is considered the founder of the French monarchy, as he was of the first or Merovingian race of Frankish kings. In 485 Clovus defeated Syagrius, the Roman general, at Sois-

sone, and finally extinguished the Roman power in the W., and in 507, by his victory over the Visigoths, he rendered himself master of all the country between the laim and the Garonne. On the death of Clovis, he rendered himself master of all the country between the Loirs and the Garone. On the death of Cloris, in 511, his dominions were divided into four kingdom, —those of Paris, Mers, Soissons, and Orieans, each governed hy ome of his four sons. These, however, were required in 568. In 732 Charles Martel defeated the Sarucens, who had effected the conquest of a great heart for his of the presence and ultimately expelled these forhes. On the first of the country was relatively present and interimage the country was relatively present and the later of the country was relatively present and the later of the country was relatively present and the later of the country was relatively present and the last sovereign of the Carlovingtan dynasty, Louis V, in 566-7 the Capet, count of Paris and Orieans, the founder of the hird race of kings, governed only the successor, Plagica, count of Paris and Orieans, the founder of the hird race of kings, governed only the Ilede-France, Plearity, and the Orieannais: the dukes of Normandy, the counts of Flanders, Champagne, Vermandois, Tocloras, and averal minor esigneers, shared among these country, and the Orieannais: the dukes of Normandy, the counts of Flanders, Champagne, Vermandois, Tocloras, and several minor esigneers, shared among these country, and the orieannais; the dukes of Normandy, the country of the country, and the country of the country, and the country, and the country of the country, and the country, and the country of the country, and the country, and the country of the country of the country, and the country of the country o dent dissolved the National Assembly by a cosp d'tist, France, (Isle of.) See Mauritus.

Dec. 2, 1851, and having remodelled the constitution, present of the constitution, appealed to universal suffrage, which declared him president for 10 years, by 7,439,216 votes, on the 21st of Dec., 1851. By a third vote, Louis Rhapoleon use chosen Em. (24 of Nov., 1852, and assumed the title Napoleon III., Emperor of the French, on the 1st of Dec., 1862. For an account of the history of F. during his reign, see Napoleon III. Since the close of the disastrous war with Germany the history of F. has been one of continued peaced and prosperity, under the successive presidencies of Thiers (1871), McMahon (1873), Grévy (1879), Carnot (1871), McMahon (1873), Grévy (1879), Carnot (1871), McMahon (1873), and Faure (1886). The immense indemnity of 500,000,000 france demanded by Germany, was paid by Sept., 1873, and F. has since borne its cuormus debt without serious difficulty. Pop. (1891) 38,086,170. its enormous debt without serious difficulty. Po (1891) 38,095,170. CEBONOLOGICAL TABLE OF THE SOVEREIGNS OF FRANCE.

MEROVINGIANE. 418. Pharamond. 428. Clodion. 458. Childeric I. 48I. Clovis I. Childere I.

(Clovis I. (Austrasia or Mets).

(Clovis I. (Paris).

Childebert I. (Paris).

Childebert I. (Paris).

Chotairy I. (Soissons or Neustria).

Theodebert I. (Metz).

Theodebert I. (Prance).

(Caribert (Paris).

Gontran (Orieans and Burgundy).

Childebert I. (Austrasia).

Childebert II. (Austrasia).

Clotaire II. (Boissons).

Ditto. (Burgundy).

Clotaire II. (Burgundy).

Theodebert II. (Austrasia).

1 Theodebert II. (Austrasia). 888 561. 612 505. 628. Dagobert I. (Austrasia).
638. Élgebert II. (Austrasia).
639. Clovis II. (Soissons and Burgundy).
650. Clovis II. (France).
660. (Clotaire III. (Boissons and Burgundy).
670. Childeric II. (Austrasia).
672. Apart II. (Austrasia).
673. [Dagobert II. (Austrasia).
674. Childeric II. (France).
675. Childelert III. (Soissons and Burgundy).
676. Childelert III. ("
677. Childelert III. ("
678. Childelert III. ("
679. Childelert III. (" 628. gobert I. 711. Dagobert III. 715. Chilperic II. 717. Clotaire IV. 720. Thierry IV. 737. (Interregnum.) 742. Childeric III. " CARLOVINGIANS

884. Charles the Fat (em 752. Pepin (the Short). 768. Charles I., Charle-magne (the Great). 814. Louis I., (le Débonperor). 887. Eudes. 898. Charles III. (the Simple.)
922. Robert I.
923. Rudolph, (or Raoul.)
936. Louis IV., (d'Outrenaire), 840. Charles II. (the Bald.) 577. Louis II. (the Stammer.) 954. Lothaire. 984. Louis V. (le Fainéant.) 879. Louis III., and Carlo 882. Carloman (alone). CAPETIANS. 1ANS.

1226. Louis IX. (8t. Louis.)

1270. PhilipIII. (theBold.)

1285. Philip IV. (the Fair.)

1314. Louis X., the Headstrong (Hutin).

1316. John I.

1316. Philip V. (the Long.)

1322. Charles IV. (the Fair.) 967. Hugh Capet. 996. Robert II. 1031. Henry I. 1000. Philip I. 1000. Philip I. 1100. Louis VI. (the Fat.) 1137. Louis VII. (the Young.) 1180. Philip II., Augustus. 1233. Louis VIII.(the Lion.) HOUSE OF VALOIS.

| 1238. Philip VI., de Valois. 1498. Louis XII. |
1330. John II. (the Good.) | 1547. Henry II. |
1422. Charles VII. |
1451. Louis XI. |
1453. Charles VIII. |
1453. Charles VIII. |
1453. Charles VIII. |
1454. Henry III. |
1556. Francis II. |
1574. Henry III. |
1575. Henry III. |
1576. Henry III. |

1888. Henry IV (of Navarre) 1610. Louis XII. (the Just.) 1643. Louis XIV. (leGrand) 1715. Louis XV. (the Well-1774. Louis XVI. 1793. Louis XVII. (merely nominally a king). beloved.) THE REPUBLIC. 1792. Convention. 1795. Directory. 1799. Consulate.

1804. Napoleon I. (again). 1815. Napoleon I. (again).

HOUSE OF BOURHON RESTORED 1815. Louis XVIII. | 1824. Charles X. HOUSE OF ORLEANS.

1830. Louis Philippe I. | 1848. Republic. THE EMPIRE RESTORED. 1852. Napoleon III. 1 1870, THE REPUBLIC.

France, adjacent to Switzerland and Lorraine. Its capital was Besancon, and it is now divided into the deps of Haute-Saone, Jura, and Dombs. This province, conquered by the Franks in 534, formed part of the duchy of Burgundy, and was bestowed on Philip II. of Spain to his marriage with Isabella, daughter of Henry II. of France, in 1859. Louis XIV. conquered it in 1668, and restored it to Spain by the treaty of Aix-la-Chapelle, May 12, 1665. He conquered it again in 1674, and it was finally ceded to France by Spain, by the treaty of Nimeguen. Sept. 17, 1678.

Franchise, n. [Fr., from franc, free. See Frank.]

Franchise, n. [Fr., from franc, free. See Frank.]

Franchise, n. [Fr., from franc, free. See Frank.]

Franchise, n. and individual or to a number of persons.—The right of voting in an election.

—e. a. To enfranchise; to make free. See Knyanchisement.

Franchisement, n. See Knyanchisement.

Franchi

for learning, but still more for honesty and independence, procured him an extensive practice; and he devoted himself to legal pursuits for thirty years, varying his professional avocations with a perusal of the French Encyclopedic writers, and with the study of mathematics and mechanical philosophy, to which he remained addicted throughout his life. In 1811, soon after the revolution in the Spanish possessions of South America became general, Dr. F., then in his 54th year, was appointed secretary to the independent junta of Paragusy; and such was the shillty he displayed in this capacity, that on the formation of a new congress, called in 1813, he was appointed consul of the republic, with Yegros for his colleague. From this moment the affairs of his country underwent a favorable change; the finances were husbanded; peace was obtained in Paragusy, while the rest of the South American continent was a prey to anarchy; and the people's gratitude to their

guay, while the rest of the South American continent was a prey to anarchy; and the people's gratitude to their deliverer was characteristically exhibited in conferring upon him, in 1817, unlimited despotic authority, which he exercised during the remainder of his life. D. 1840.

Fram'ele, a. Relating to the Franks, or to their language; Frankish.

Fram'els H., King of France, s. 1494, succeeded to the throne in 1515, on the death of Louis XII., who died without male issue. Scarcely had he ascended, than he, as grandson of Valentino of Milan, put himself at the head of an army to assert his right over the Milanese. The Swiss, who opposed him in his entry into the duchy, were defeated at Marignano (or Melegnano),



Fig. 1061. — PRANCIS I., KING OF PRANCE

and Milan fell immediately after this victory. After a short war with England, the famous interview between Henry VIII. and E. took place, in 1520, in Flanders, which, from the magnificence displayed on the occasion, was called "the Field of the Cloth of Gold," q. v. In the same year, Charles V. of Spain having inherited the empire after the death of Maximilian, F. laid claim to

the imperial dignity, and declared war against his rival. In this struggle, however, he met with nothing but reverses. After the defeat of Marshal Lautrec at Bicoca, in 1522, the retreat of Bonnivet, and Bayard's death (see these names), P. was himself, in 1525, leaten at Pavia, and taken prisoner. The fight had been a flerce one, and the king wrote to his mother, "All is lost, except honer." Led captive into Spain, he only recovered his liberty at the cust of an onerous treaty, signed at Madrid in 1526; but which was not entirely carried out. He immediately recommenced the war in signed at Madrid in 1526; but which was not entirely carried out. He immediately recommenced the war in Italy, met with fresh defeats, and concluded a second treaty at Cambrai, in 1529. He once more invaded Italy, in 1536, and, after various successes, consented to a definitive arrangement at Crespi, in 1644, by which the French were excluded from Italy, though Milan was given to the Duke of Orleans, the second son of P. He D. at the Château de Rambouillet, 1547, and was succeeded by his son, Henry II. — P. was a friend to arts and literature, which flouriabed during his reign; and he was called the "Father of Letters." Justice, also, began to be better administered in his reign. He founded the Royal College of France, the Royal Library, and built several palaces.

BANCIS II., King of France, the eldest son of Henry II. hie and

queen Ca-Medicia, B. tainebleau. 1544. He succe e d e d his father in July, 1559, hav-ing in the preceding year mar-ried Mary Stuart daughter of James V. of Scotland. He made the cardinal of Lorrains first minis ter, and his brother, the duke of Guise, com-mander-i nchief. The insolence and cruelty of their rule pro-duced pro-found dis-Fig. 1062.

- COSTUME OF FRANCIS IL

Jound dis-c on tent, and led to the conspiracy of Amboise, and the beginning of the civil war between the Catholics and Protestants. The states-general were convoked at Orleans in 1560, and the prince of Conde, who had joined the Protestants, was there arrested, and sentenced to death: but the sentence

the prince of Conds, who had joined the Protestants, was there arrested, and sentenced to death; but the sentence was not executed in consequence of the death of the king soon after, Dec., 1560.

Frameis I... Emperor of Germany, B. 1708, was the son of Leopold, Duke of Lorraine. He inherited this duchy from his father, in 1729, and six years atterwards exchanged it for that of Tuscany, which the death of the last of the Medicis had rendered vacant. In 1736 he married Maria Theresa, the danghter of the Emperor Charles VI. On the death of the latter, he disputed the imperial dignity with the Elector of Bavaria, whom France supported, and who took the name of Charles VII.; he was, however, defeated, and Francis reigned yeaceably for twenty years. D. 1765.—His character was tarnished by avarice. He had sixteen children, among whom was Joseph II., who succeeded him, and the unfortunate Marie Antoinette.

Francis II.. Emperor of Germany, and I. of Austria, a. 1768, succeeded his father, Leopold II., in 1792, as emperor of Germany, king of Bohemia, Hungary, &c. At the very commencement of his reign, he had to sustain a war against France, in which he was defeated, and was in 1797 obligate to size the teat of Cawaro Kernie.

was, in 1797, obliged to sign the treaty of Campo Formio, which deprived him of the Netherlands and Lombardy. which deprived him of the Netherlands and Lombardy. Another war taking place with the same power, he was not more fortunate than in the first, and was beaten at Marengo, and lost, by the treaty of Luneville, in 1801, all his possessions on the Rhine. In a third campaign, undertaken in 1805, the French were victorious over his armies at kichingen, Ulm, and Austerlitz; and the treaty of Presburg still further diminished his territory. Renouncing now the title of Emperor of Germany, he took that of Austria, under the name of Francis I. He tried again the fate of buttles in 1809; but the defeats took that of Austria, under the name of Francis I. He tried again the fate of battles in 1809; but the defeats of Eckmühl and Warram led to the peace of Schöbrunn; to cement which more stronely, his daughter Maria Louiss was, in 1810, given to Napoleon I. Notwithstanding this alliance, however, he, in 1813, joined the coalition against his son-in-law, and contributed considerably to his overthrow. The treaties of 1815 put him again in possession of the greater portion of his territory, and he reigned peaceably till his death in 1835. He was succeeded by his son Ferdinand, who, in his turn, abdicated in favor of the reigning emperor, Francis Joseph, in 1848. Frameis Joseph, Charles, Emperor of Austria, s. 1830, ascended the throne, Dec. 2, 1848. On mounting the throne he found the empire shaken by internal discussions; and his first step was to promise a free and constitutional government to the country. The course the throne he found the empire shaken by internal dissensions; and his first step was to promise a free and constitutional government to the country. The course of events, however, compelled him to close the national assembly, and to assume absolute power. Assisted by Prince Schwartzenberg, and after his death by Count Buol and Baron Bach, he centralized the governments of his heterogeneous nationalities at Vienna, and, aided by Herr Von Brück, inaugurated a series of fiscal and commercial reforms favorable to the interests of the middle classes. In 1853-4, the emperor endeavored, though in vain, to induce the Czar Nicholas to abandon his ambitious designs against Turkey, and further excited that autocrat's displeasure by refusing to assist Russia against the Western Powers, whose rulers also felt aggrieved, because he resolved to remain neutral, and declined to throw the weight of his name into their scale. The unwillingness of Austria to make common cause with the Western Powers has been severely puncased the Alps and dictated the peace of Villafranca. It is, therefore, more than probable that her reluctance to act against Russia in that war was the cause of her losing Lombardy three years later. The emperor is tall and handsome. At Solferino he gave proof of bravery amounting almost to rashness. In April, 1854, he married the Princess Elizabeth Amalle Eugenie, daughter of the Duke Maximilian Joseph, and cousin, on her mother's ride, to the King of Bararia. The plenipotentiaries of Austria, Prussia, and Dommark assembled at Vienna to consider the terms of a peace, July 25, 1864, which was concluded Oct. 30. The convention of Gastein, signed Aug. 14, 1865, which transferred the govtein, signed Aug. 14, 1865, which transferred the gov



Fig. 1063. — PRANCIS JOSEPH, EMPEROR OF AUSTRIA.

ernment of Schleswig to Prussia, and that of Holstein to Austria, was a few days after confirmed by the emperor and the king of Prussia at Salsburg. The emperor issued an important manifesto to his people, Sept. 20, in which he expressed very conciliatory intentions towards the peoples of Hungary and Croatia. At the beginning of 1866, the armsments against Prussia commenced, and an imperial order was issued May 6, placing the whole army on a war-footing, and concentrating the army of the north on the frontiers of Bohemia and Silesia. The emperor published a manifestor relative to the impending contest, June 17, the Prussian minister having received his passports June 12. The emperor showed much devotion in the struggle which ensued, and the fortunes of war having proved adverse (see PRUSSIA), at once made peace and applied his energies to the difficult task of reconstructing the empire. In 1867, the emperor put an end to the hostilities of Hungary by recitablishing the constitution of that country; and on June 8, he was crowned at Pesth as king of Hungary, with extraordinary pomp. There was a memorable meeting of the emperors of Germany, Bussia and Austria at Berlin in 1872. Francis Joseph visited the emperor of Russia at St. Petersburg in 1874, and was visited by the king of Italy in 1881.

Francis I., King of the Two Sicilies, was the son of Ferdinand I., and twice during the lifetime of his father he carried on the government of the kingdom under the name of viceroy; first in 1812, whon a constitution was granted to Sicily; and afterwards in 1820, during the troubles which broke out in Naples and Palermo. He mounted the throne in 1825, and died 1820, without having achieved anything remarkable.—He was succeeded by Ferdinand II. (Bomba), who. dying in 1859, was followed by Francis II., who lost his throne in 1861.

Francis, (Sa., or Francis or Assist, the founder of the order of Franciscan friars, was born at Assist, in Umbria, in 1182. He was the son of a merchant, and was said to be of dissolute habits; but

poverty, he drew up rules for their use, which being sanctioned by Pope Innocent III., the order of Franciscans was established. So rapidly did they increase, that in 1219 he held a chapter which was attended by 5000 friars. After having made a fruitless effort to convert the sultan Meleddin, he returned to Assisi, where he D. in 1226, and was canonized by Pope Gregory IX. in 1220.

Fram'els de Paulo, St., a at Paulo. Calabria, 1416. He was brought up in a Franciscan convent; and retired to a cell on the desert part of the coast, where he soon obtained followers, built a monastery, and thus commenced a new order, called Minims. He enjoined on his disciples a total abstinence from wine, flesh, and fish; besides which they were always to go barefoot and never sleep on a bed. D. in France, 1507, and was canonized by Leo X.

Frame's de Sales, St., bishop of Geneva, founder of the Order of the Visitation, was born of a noble Savoyard

onized by Leo A.

Frameis de Sales, St., bishop of Geneva, founder of the Order of the Visitation, was born of a noble Savoyard family, at the château of Sales, near Geneva, in 1667. He was educated by the Jesuits at Paris, studied law at Padua, and having a strong bent to theology and a religious life, entered the Church. Earnest and successful as a preacher, he was sent, in 1594, with his kinsan, to be successful as a preacher, he was sent, in 1594, with his kinsan, in 1602 and the successive sent of the content of the conferences with Théodure de Bèse, Calvin's successor, at Geneva, were, however, without result. He went to Paris in 1602, preached there with great success, and steadily refused the offers of dignities made by the French king. The same year he was appointed bishop of Geneva, and taking St. Charles Borromeo as his model, applied himself zealously to the reform of the diocese and its monasteries. He was disinterested and free from worldly ambition, and declined the offer of a cardinal's hat and the renewed invitations of the king of France. In 1610 he founded the Order of the Visitation, of which the first directrees was his friend Madame de Chantal. He was sent again to Paris in 1618, and died. of which the first directress was his friend Madame de Chantai. He was sent again to Paris in 1618, and died in 1622. His best known works are the "Introduction de la Vie Dévote," "Philothèe, ou Traité de l'amour de Dieu," and his "Lettres Spirituelles." He was canonized by Pope Alexander VII. in 1665.

Francis eam, n. pl. (Eccl. Hist.) One of the four orders of mendicant friars, who were termed Francis cans after their founder St. Francis; ersy, from their gray clothing; and Minor, or Minorites, in token of their humility.—
The order was es-

The order was established by St. Francis at Assisi, in Naples, in 1208. It was distinguished by vows of absolute poverty and a rethe pleasures of the world, the members being strictly pro-hibited from havhiblied from having any property whatever. Therule of the order, sanctioned by the Pope in 1210 and 1223, destined them to beg and preach. The popes granted them many extensive privileges, which excited the envy and opposition of the secular clergy, upon whose clergy, upon whose rights they often



Fig. 1064. - A FRANCISCAN.

clergy, upon whose rights they often Fig. 1064.—A FRANCISCAN. made great encroschments; and they refused to acknowledge any anthority whatever but that of the Pope. They spread with great rapidity, and at length comprised many thousand monasteries, all established by aims and contributions. The Capachins, the Fraticelli, the Observants, and the Claret or Clarisses, are branches of the F, which has at all times maintained its popularity in the Roman Catholic Church. Since the French revolution, the number has of course been very much diminished, the order having been suppressed in more than one kingdom; but it is still one of the most numerous in the Roman Catholic Church. Many of the foreign missions are mainly supplied by Francies, and they posses convents in almost every part of the world.

Francisco, (São.) in Brazil. See São Francisco.

Francisco, (São.) in Brazil. See São Francisco.

Francisco, in N. Curolina, a Po. of Stokes co.

Francisco, in N. Curolina, a Po. of Stokes co.

Francisco, in Michigan, a post-office of Jackson co.

Francisco, in Michigan

gona, and after a course of 30 m. falling into the Mediterranean, 1 m. from Tarragona.

Fram colim, v. (2021.) A genus of birds, closely allied to Partridges, from which they are only distinguished by a stouter bill, and a large tail. The species are natives of the Oult World. of the Old World.

Fran'colite, n. (Min.) A variety of apatite or phos-

a stouter bill, and a large tail. The species are natives of the Old World.

Franceolito, n. (Min.) A variety of apatite or phosphate of lime, q. v.

Franceo'mia. This name was originally applied to the German country on both sides of the Maine, which was colonized by Frankish settlers under Thierry I., eldest son of Clovis I., who succeeded to his father's German possessions in 511. Conrad, Duke or Count of Franconia, was elected King of Germany Nov. 8, 911, and princes of the same house occupied the throne from 1025 till 1250. The Emperor Wenceslaus, in 1387, divided the empire into four circles, of which Franconia and Thuringia constituted one; and Maximilian I., in 1512, erected Franconia into a distinct circle. In 1806 it was divided among Wittenberg, Baden, Hesse-Cassel, the Saxon duchies, and Bavaria, but since 1814 the greater part has belonged to Bavaria, where the districts or circles of Upper, Middle, and Lower Franconia were established in 1837. Upper F. includes the N.E. portion of Bavaria. It is watered by numerous rivers, as the Maine, Raab, Saale, &c., and it is intersected by the Fichtelgebirge and by the hilly ravines of the Böhmer-Franken, and Steiger-Wald. The valleys produce good crops and fruit, and the district is rich in minerals. Middle F, which abute upon Wittenberg, is intersected by Uranches of the Franconian Jura chain, but has few rivers of importance besides the Regnits and Altmühl, which are connected by the great Ludwig Canal. It produces good wine, but is principally celebrated for its hop-gardent. Lower F., which occupies the N.W. part of Bavaria, is traversed by the Spessart, the Rhōngebirge, and the Steiger-Wald, and watered by the Maine and Saale. It is the richest and best cultivated of the Franconian circles, and is celebrated for the excellence of its wines, the Steiner and Leister. The district is noted for its mineral springs at Kissingen, Brückensu, Orb, and Wipfeld.—See Bavaria.

Franceo'mia, in Messecosa, a township of Chisago ecoporate of the Scenario and the Stein

Franco mis. in Management, a township of Common were pop about 300.
Franco mis. in New Hampehire, a post-township of Grafton co., abt. 75 m. N. by W. of Concord. It is situated in the midst of the magnificent scenery of the White Mountains, and contains the celebrated natural curiosity called the Old Man of the Mountains, consisting of 5 immense granite blocks, on an overhanging



Fig. 1065. - THE PLUME. (White Mountains.)

(White Mountains.)

cliff of Profile or Jackson Mountain, so disposed that, as seen from the road 1,000 feet below, they closely resemble the outline of a human face. The S. branch of the Ammonosuck River passes through the township and exhibits the most sublime scenery (see Fig. 1064.)

The township abounds in magnetic iron.

Frameo'mia, in Ohio, a village of Putnam co., on the Auglaize River, sht. 120 m. N.W. of Columbus.

Frameo'mia, in Passylvania, a post-township of Most gomery co., abt 12 m. N. of Norristown.



Franc'gible, a. [L. Lat. frangibilis, from Lat. frango, to break. See Fragula.] That may be broken; brittle; fragile; easily broken.
Franc'giblemess, n. Frangibility.
Franc'giblemess, n. A species of pastry chiefly made with cream and almonds. — A perfume of jammine.
Frank, a. [A. S. Franca, the Franks; O. Ger. franco, free, ingenuous; Fr. franc, true, open, sincere; It. and Sp. franco; Icel. Prakkar, the Franks, is formed from fracki, warlike, powerful, or from frackin, brave, spirited, free.] Brave; spirited; free; free in uttering real sentiments; not reserved; using no disguise; open; ingenuous; candid; leading to the utterance of one's sentiments without reserve, as a disposition; without conditions or compensation, as a gift.

ditions or compensation, as a sinfo.

-a. A name given by the Greeks Turks, Arabs, and other eastern nations, to a Christian. It probably originated at the time of the Crusades, in which the French particularly distinguished themselves. —See Franks.

-A letter sent, or the privilege of sending letters, by

mail, free of postage.

-A letter sent, or the privilege of sending letters, by mall, free of postage.

-c. a. To free from postage or expense, as letters.

Frank'-chasse, n. (Law.) A liberty of free chase within the precincts of a forest.

Frank's enherg, a town of Heese-Cassel, 30 miles from Cassel. Mansy. Woollen stuffs, cotton, and leather. Pop. 3,500. — Another, in Saxony, on an affluent of the Mulde, 7 miles from Chemnitz. Mansy. Linen and cotton wearing; mining is also carried on. The place is of considerable importance.

Frankemhauns'ema, a town of Central Germany, on the Wipper, 30 m. from Erfurt; pop. 6,000.

Frankemhauns'ema, a town of Central Germany, on the Wipper, 30 m. from Erfurt; pop. 6,000.

Frankemias'eees, n. pl. [After John Frankeniss, professor of botany at Upsal.] (Bot.) The Frankenisds, an order of plants, alliance Violates, consisting of herbe and undershrube much branched, with opposite exstipulate leaves and sessile flowers; calyx tubular, furrowed, persistent; petals unguiculate, 4 or 5, hypogynous; examens hypogynous, distinct; ovary superior, 1-celled, with parietal placentas; fruit capsular, 1-celled, inclosed in the calyx and dehiscing in a septicial manner; seeds numerous; embryo straight, erect, in the middle of albumen. The plants of the order chiefly occur in the numerous; embryo straight, erect, in the middle of al-busen. The plants of the order chiefly occur in the south of Europe and north of Africa, but are found in other parts. They are mucilaginous and slightly aro-matic. The leaves of a species of Beatsonia are used at 8. Helena as a substitute for tea.

Fran'kenlust, in Michigan, a village of Saginaw co about 6 m. E. of Saginaw.

Fran'kemmuth, in Michigan, a post-township of

Saginaw co.

Saginaw co.

Frankenstein (frank'en-stine), a town of Sileda, 37
m. S. S. E of Breelau. Pop. (1895) 7,330.

Frankenthal, a manufacturing town of Germany, in Bavaria, on the Isenach, 16 m. N. N. W. of Spires. Pop. (1895) 7,201.

Frankentrust, in Michigan, a village of Saginaw co., abt. 9 m. E. of Saginaw city.

Frank'ford, in Pelasare, a post-village of Sussex co., abt. 56 m. S. by E. of Dover.

Prank'ford, in Minesola, a post-village and township.

Frank'ford, in Minnesota, a post-village and township

of Mower co.

Prank'ford, in Missouri, a post-village of Pike co., abt. 80 m. N.K. of Jefferson city.

Prank'ford, in New Jersey, a township of Susser

Frank'ford, in Pennsylvania, a borough included within the chartered limits of the city of Philadelphia, abt. 5 m. N.E. of the State House.

—A village of Beaver co.
—A village and township of Cumberland co., abt. 10 m. N. of Carlisle.

or cause and township of Cumberland co., abt. 10 m. N. of Carlisle.

Framk ford, in W. Viryinia, a post-village of Greenbrier co., abt. 10 m. N.E. of Lewisburg.

Frank ford, in M. D. of Lewisburg.

Frank ford, in Alabama, a post-village of Franklin co., abt. 75 m. W. by S. of Huntaville.

Frank fort, in Risnois, a post-village of Franklin co., abt. 16 m. S. by E. of Springfield.

A village and township of Will co., abt. 13 m. E. of Joilet.

Frank fort. in Legislage of Frank fort.

Jolist.

Frank'fort, in Indiana, a city, the cap. of Clinton co., on L. E. & W. and three other railroads, 24 m. E. S. E. of Lakyette; has some manufactures and a good local trade. Pop. (1897) about 7,100.

Frank'fort, in Iosca, a village of Montgomery co.

A village of Webster co., on the Des Moines river, about 20 m. balon Front Design.

Da. below Fort Dodge.

Frank/fort, in Kentucky, a city, capital of the State, and seat of justice of Franklin co., on the Kentucky river, about 24 m. W. N.W. of Lexington; Lat. 38° 14' N., Lon. 84° 40' W. Prp. (1897) about 8,600.

Frank/fort, in Maine, a post-town of Waldo co. Pop. (1891)

(1890) 1,099.

Frank fort, in Michigan, a post-village of Benzie co., on Lake Michigan, 110 m. N. of Muskegon. Pop. (1894)

1.110. "rank' fort, in *Missesots*, a township of Wright co. "rank' fort, in *Missou*ri, a village of Pike co., about 90 m. N. E. of Jefferson city.

- A village of Webster co., about 24 m. E. by S. of Spring-

Prank fort, in Nebraska, a hamlet of Knox co., on the Missouri river, above 10 m. above Yankton, S.D. Prank fort, in New York, a post-office of Somerset co. Prank fort, in New York, a post-village and township

of Herkimer co.

Frank'fort, in Ohio, a post-village of Ross co., about 10 m. N.W. of Chillicothe.

Prangibil'ity, n. [L. Lat. frangibilitas.] The state or quality of being frangible.

Prangible, a. [L. Lat. frangibilits, from Lat. frango, to break. See Fracille.] That may be broken; brittle; frangible easily broken.

Prangible easily broken.

Prangible easily broken.

Prangible easily broken.

Prangible easily broken.

A species of pastry chiefly made with a manufacture of Germany and a conversable easily and a calcination of vine-branches and other remains of the calcination of vine-branches and other remains of the state of Germany and a conversable easily and

wine manufacture of Germany; - used in copper-plate

printing.

Framk fort-om-the-Main, a city of Germany, the cap. of a district of same name, on the Main, 20 m. above its conflux with the Rhine; Lat. 50° 0° 44" N. Lon. 8° 41' 24" E. It is divided by the river into two unequal parts: the one on the morth bank, called Frankfort Proper, being considerably larger than the other, which is called Sachsenhausen; and the two communicate by a stone bridge. Frankfort was formerly fortified; but most of its outworks are now convorted into gardens and promenades, and it is entered by nine gates. The principal streets are wide; there are also many squares, and a number of large buildings; among which may be named the Rœmerberg (Fig. 1063), or old palace, in which the emperors of Germany were elected, and place of the assembling of the Diet; the Taxis palace, a place of residence of the Emperors; the Sallhof, a modern imperial palace; the Lutheran, or High church; other churches. Jews' synagogues, hospitals, a theatre, an academy of painting, and the Senkenberg Museum. Besides these, there are a geographical society, college, medical institute, and numerous schools. Manuf. Carpets, tablecovers, oil-cloths, cotton and silk fabrics, woollen stuffs, jeweiry, tobacco and printer's black. It has also large printing, lithographic and stereotyping establishments. Fop. (1891) 179,850. — F. was founded by the Franks in the 5th century. Charlemagne, who had a palace. printing.

rankfort Hill, in New York, a P.O. of Herkimer co.



1. The Romerberg.

2. The Taxis Pale Fig. 1066. — PRANKFORT.

in this city, summoned a council in 794, and it was surrounded with walls by Louis I. in 838. It was the capital of the Eastern Franks from 843 to 889, when Ratisbon was selected. Frederick I. was elected at F. in 1152. From that time it became the place of election of the emperors. F. was made a free city in 1257. The bridge over the Maine was built in 1342. Frederick of Prussia signed a treaty, known as the Union of F. with the empire, France, and Sweden, at this city, May 13, 1744. The French captured it Jan. 2, 1750, and again in 192: but the Prussians wrested it from them Dec. 2. 1744. The French captured it Jan. 2, 1750, and again in 1792; but the Prussians wrested it from them Dec. 2, 1792. It was bombarded by the French July 12, and surrendered July 19, 1796. It formed part of the Confederation of the Rhine in 1806. Napoleon I. erected F. into a duchy in 1810. The Declaration of the Allied Powers was issued at F. Dec. 1, 1813. By the Congress of Vienna, in 1815, it was made one of the four free cities of Vienna, in 1815, it was made one of the four free cities of Germany, and the seat of the Germanic Diel. It was made a free port in 1831. The constituent Assembly, elected in 1848, held its sittings at F. It was occupied by the Prussians July 16, 1868, and is now incorporated with Prussia. Councils were held here in 794, 853, 1001, 1007 (Feb. 2), 1234, and 1400. Fram kfort-on-the-Odder, a well-built town of Prussia, the capital of a district of same name, prov. of Brandenburg, 48 m. from Berlin, with which it communicates by railway. Its university, founded in 1506, was in 1811 transferred to Breelau. Manuf. Woollens, silks, leather, earthenware, tobacco, mustant & Pau (1881).

in 1811 transferred to Brechatt. Many. Woollens, silks, leather, earthenware, tobacco, mustard, &c. Pop. (1891) 55,738. Lat. 52° 22′ 8″ N., Lon. 14° 33′ 24″ E. Neur it is Kunersdorf, the scene of the victory of the Austrians and Russians over Frederick the Great, in 1759. The district has an area of 8,000 eq. m., with a population of 1,000,000.

of 1,000,000.

Framk fort Springs, in Pennsylvania, a post-borough of Beaver co., about 25 m. W. of Pittaburg.

Framk hearted, a. Having a frank disposition.

Framk heartedness, n. Quality of being of an open and frank disposition.

Framk incense, n. [Prank and incense.] A resin obtained from a great number of trees of the fir species, and greatly esteemed as an incense. The article now universally known as F. is the resin called thus, a common, incorpous article little better than common white universally known as F. is the resin called (hist, a common, inodorous article, little better than common white rosin. The article once so highly valued, and which, with gold and myrrh, was deemed a gift to lay before the Saviour, must have been some other drug more precious than pine or spruce rosin, and was doubtless the still valuable and beautiful substance known as bengoin. Frank'ing, n. The act of making free: the exemp-tion of letters, &c. from postage. In the United States, every member of the national legislature had the priv-ilege of receiving and sending letters free of postage;

but this exception was limited in 1879 to public docu-ments printed by order of congress. (Joinery.) The mode of forming the joints where the cross-pieces of the frames of window-sashes intersect each other.

Frank'ish, a. That relates to the Franks.
Frank'iih, n. A freeholder; a yeoman; — applied, in
the time of Elizabeth, to a man above the condition of a

the time of Elizabeth, to a man above the condition of a vassal, but not a gentleman.

Franklin, Benjamin, an American statesman and philosopher, B. in Boston, 1706. The name of Dr. F. is popular in every civilized country: his discoveries in electricity have given him a permanent place in scientific history; and he deserves highest honor from all mankind for his services to the cause of rational liberty and the independence of nations.—We must omit all details concerning Franklin's early life; however, if any one would sustain hope amid unpromising labor—discern the inestimable value of small portions of time economized and put scrupulously to uses—or —discern the inestimable value of small portions of time economized and put scrupulously to uses—or learn how cheerfulness, patience, and fortifude, guided by good sense and integrity, must ever command success—he will find nowhere better instruction than in that graphic narrative of the events and struggles of his opening manhood, by which F. has let us into the innersect being of the increavement printer of Philidelphia opening mannood, by which F. has let us into the inner-moet being of the journeyman printer of Philadelphia. Distinguished no less by practical benevolence than by an almost intuitive appreciation of the wants and char-acter of early American society, F. could not fail to rise into authority. Accordingly, we find him the favorite consellor in most of the grave difficulties belonging to that period of our between Commencies realth [16] to counsellor in most of the grave difficulties belonging to that period of our history. Commencing public life in the struggle between the Assembly of Pennsylvania and the old proprietary Governors — we again meet him proposing to the different States a project of union, which afterwards became the basis of a confederacy; then, on a mission to England regarding the American Stamp Act; afterwards ambassador to France; the observed of all observers in Paris, soliciting aid in arms from the court of Versailles; finally, Minister to England, signing the treaty by which the mother-country, submitting to ill-fortune, acknowledged the independence of her former colonies.—It has been said that Franklin represented the prac-

resented the prac-tical genius, the moral and political spirit of the 18th century, as Volmetaphysical and religious scep-ticism; this, at least, is certain: least, is certain:—
no man saw more
clearly, or felt
more profoundly
in his own person,
the political and
moral ideas which
necessarily be ar
sway in a strictly
industrial commuity like the one nity like the one



emerging from in- Fig. 1067. - BENJAMIN FRANKLIN.

emerging from in. Fig. 1067. — BENJAMIN FRANKLIN. fancy in the New World. Unconnected with England by birth or close association, he looked only with as tonishment on those presentensions to prerogative, which certainly could find no natural soil where all men were socially equal; and his system of morals included every sanction and precept likely to recommend themselves to a people who could never reach prosperity unless through patient industry and the exercise of the prudential virtues. His code was "The Way to Wealth;" and the wisdom of Foor Richard instructed every man how, by the strength of Richard instructed every man how, by the strength of his arm and dominion over his passions, wealth might be attained and made secure. Since F's time a new element as arm and dominion over his passions, wealth might be attained and made secure. Since F's time a new element has arisen in America; powerful tendencies are developing with higher aims than mere wealth, and which demand a larger code than the utilitarian. F. did not recognize, or, rather, had not foreseen, the necessary advent of that speculative habit now very rapidly becoming dominant over American thought; but in his treatment of the equally powerful tendency of which he saw the influence, and whereof he himself so largely partook, his Poor Richard is complete:—he threw off all prerogative and tradition, and looked at things as they are. Temperance, Silence, Order, Resolution, Frugality, Activity, Sincerity, Justice, Moderation, Cleanliness. Tranquality, Chastity, Humility,—these are his virtues; and F. teaches how to acquire them, by precepts which in earlier times would have ranked as golder cerez; they are as valuable as anything that has descended from Pythagoras.—It is rare that a single mind establishes claims so various as those of F:—he ranks also among the foremost as a Physical Inquirer mind establishes claims so various as those of F:—he ranks also among the foremest as a Physical Inquirer and Discoverer. Attracted by the opening subject of Electricity, he was the first who reduced it to order; and that grand step is owing to him which identified the attraction and repulsion of rubbed glass and amber with the energy that produces lightning, and causes the most imposing of meteorological phenomena. His memoirs on Electricity and other physical subjects still astonish one by their clearness and chastity, and the precision and elegance of their method; their style and manner are as worthy of admiration as their doctrines. They gained for the author immediate admission to the highest scientific societies in Europe. — In his personal beargames for the author immediate achission to the figurest scientific societies in Europe. — In his personal bearing, F. was sedate and weighty. He had no striking eloquence; he spoke sententiously: but men instinctively felt his worth, and submitted themselves to his wisdom.

Except Washington, whom in many qualities he much resembled, this country yet ranks among her dead nowhere so great a man. Died in Philadelphia, 1790.

Frank'lim, Sir John, an English navigator, born at Spilsby, Lincolnshire, 1766. In 1806 he was present at the battle of Trafalgar, and in 1814 at that of New Orleans, and in 1819 was appointed to head an overland expedition from Hudson's Bay to the Arctic Ocean. After suffering many hardships, and being frequently on the verge of death from hunger and fatigue, he reached home in 1822. In the following year he married a Miss Purden, the daughter of an architect, and the author of several poetrol effusions. In 1825 he submitted to Lord Bathurst a plan "for an expedition overland to the mouth of the Mackenzie river, and thence by sea to the N.W. extremity of America, with the combined object also of surveying the coast between the Mackenzie and Copper-mine rivers." This proposition was accepted, and six days after he left Liverpool, in the same year, his wife died. In 1827 Captain F. arrived at Liverpool, where he was married a second time, and in 1829 had the honor of knighthood conferred upon him. In 1845, Sir John set out on a third expedition with two shire called the February of the same year. in the same year, his wife died. In 1827 Captain F. arrived at Liverpool, where he was married a second time, and in 1829 had the honor of knighthood conferred upon him. In 1845, Sir John set out on a third expedition with two ships, called the Brobus and Terror, and spent his first winter in a cove between Cape Riley and spent his first winter in a cove between Cape Riley and spent his first winter in a cove between Cape Riley and spent his first winter in a cove between Cape Riley and spent his first winter in a cove between Cape Riley and spent his first winter in a cove between Cape Riley and spent his first winter of the companions had, in all probability, perished in the winter of 1850-51. This intelligence, however, wanted confirmation and Lady Franklin, who deserves all praise for the intelligent persistency of her efforts, resolved to have the mystery cleared up as to whether her gallant husband had realized out, and the melancholy news was, in 1859, at length confirmed by the return of Captain McClintock, in the yacht Fox, after a persevering search for the lost adventurers. This officer brought with him indisputable proofs of the death of Sir John and the loss of his crew. Several articles belonging to the unfortunate explorers were found at Ross Cairn and Point Victory. At the latter place a record was discovered, wherein it was stated that Sir John F. had died on the 11th of June, 1847. Other traces were found on the W. coast of King William's Island, as the various survivors of the expedition had strayed from each other, perhaps in search of food, or the means of escaping from their dreary and desolate situations. C. F. Hall, the eminent Arctic explorer, returned Sept, 1869, from a five-year's search for the remains, of Sir John F's companions, and brought back about 150 relies of the expedition, purchased from the natives of King William's Laud. It remained, however, for Lieut. Schwatka to find the bodies of the Franklin party in his expedition of 1879-40.

Frank Ilm, in Arkansas, an Pett Jean ri

-A post-township of Izard co.
-A township of Stone co.
-A township of Union co.

Frank'lin, or Georgerown, in California, a post-village of Sacramento co., about 14 m. S. of Sacramento.
Frank'lin, in California, a post-township of Sacra-

Frank'lin, in California, a post-township of Sacramento co.

Frank'lin, in Connecticut, a post-town of New London co., about 30 m. E. of Hartford. Pop. (1897) about 650.

Frank'lin, in Forida, a N.W. co., bordering on the Gulf of Mexico; area, about 690 sq. m. Rivers. Apalachicola and Ocklockonee rivers. Eurface, low; soil, not fertile. Cap. Apalachicola. Pop. (1890) 3;308.

Frank'lin, in Georgia, a N.E. co., bordering on South Carolins; area, about 359 sq. m. Rivers. Tugaloo, and the headwaters of the Broad river. Surface, broken; soil, fertile. Min. Iron ore and some gold. Cap. Carnesville. Pop. (1897) about 16,750.

—A post-village, capital of Heard co., on the Chattahoochee river, about 145 m. W. of Milledgeville.

Frank'lin, in Idaho, a post-village ef Oueida co., near the northern boundary of Utah.

Frank'lin, in Illinois, a S. co.; area, about 430 sq. m. Rivers. Big Muddy river and Salline creek. Surface, diversifiet; soil, fertile. Cap. Benton. Pop. (1890) 17,138.

—A village and township of De Kalb co.

—A village of De Witt co., on Salt creek, about 40 m. N.E. of Springfield.

of Springfield.

of Springfield.

A post-village and township of Morgan co., about 12 m. S.E. of Jacksonville.

Frank'11n., in Indiana, a S.E. co., bordering on Ohio; area, about 400 sq. m. Rivers. Whitewater river and other smaller streams. Surface, level; soil, mostly fertile. Cop. Brookville. Pop. (1890) 18,366.

A township of Floyd co.

A township of Floyd co.

A township of Harrison co.

A township of Harrison co.

A township of Hendricks co.

A township of Henry co.

A township of Kosclusko co.

A township of Montgomery co.

A township of Owen co.

A township of Powen co.

A township of Randolph co.

A township of Randolph co.

A township of Randolph co.

A township of Pulaski co.

A township of Washington co.

Township of Washington co.

A township of Washington co.

A township of Washington co.

A township of Carle Co.

A township of Allamakee co.

A township of Appanoose co.

A township of Carke co.

A village and township of Decatur co., about 6 m. N.E. of Leon.

-A township of Clarke co.

A village and township of Decatur co., about 6 m. N.E. of Leon.

A township of Des Moines co.

A township of Greene co.

A village and township of Lee co., about 25 m. N. by W. of Keokuk city.

A township of Monone co.

A township of Washington co.

Frank 'lim, in Kassos, an E. co.; area, about 576 sq. m. Ricers. Marais des Cygnes and Osage river, and Middle creek. Exprace, undulating; soil, fertile. Cap. Ottawa, Pop. (1895) 20,734.

A township of Bourbon co.

A township of Bourbon co.

Trank 'lim, in Kentscky, a N. central co.; area, about 200 sq. m. Ricers. Kentucky, and Elkhorn rivers. Surface, diversified; soil, fertile. Cap. Frankfort. Pop. (1897) 21,267.

Juce, hilly; soil, fertile. Cup. Greenfield. Pop. (1885) 40,145.

A post-town of Norfolk co., about 27 m. S.W. of the city of Boston. Pop. (1895) 4,831.

Frank 'lin, in Michigan, a township of Lenawee co.

—A post-village of Oakland co., abt. 21 m. N.W. of Detroit.

Frank 'lin, in Michigan, a township of Lenawee co.

—A post-village of Oakland co., abt. 21 m. N.W. of Detroit.

Frank 'lin, in Mississippi, a S.W. co.; area, about 556 sq. m. Sicers. Homochitto and Morgan's Fork. Surface, uneven; soil, not generally fertile. Cap. Meadville. Pop. (1890) 10,424.

—A village of Holmes co., about 60 m. N. of Jackson.

Frank 'lin, in Missouri, Maramec, and Riviere au Beenf, and Berger, Bourbeuse, St. John's, and Indian creeks. Surface, hilly; soil, fertile. Miss. Copper, iron, and lead. Cap. Union. Pop. (1890) 28,056.

—A village of Franklin co., on the Maramec river, about 37 m. W. S. W. of St. Louis. Now called Pactric.

—A post-village (now called New Franklin), and township of Howard co.

Frank 'lin, in Noth Carolina, a N.E. central co.; area, about 480 sq. m. Ricers. Tar river and some smaller streams. Surface, level; soil, fertile. Cap. Louisburg. Pop. (1890) 21,090.

—A post-village, capital of Macon co., on the Tennessee river, about 35 m. W. ly S. of Raleigh.

Richmond.

Prop. (1890) 21,090.

A post-village, capital of Macon co., on the Tennessee river, about 325 m. W. by S. of Raleigh.

Frank/lin, in New Hampshire, a post-town and township of Merrimac co., on the Merrimac river, 19 miles N. N.W. of Concord. Pop. (1897) about 4,450.

A post-office of Merrimac co. Called Franklin Falls.

Frank/lin, in New Jersey, a township of Bergen co.

A township of Gloncester co.

A township of Gloncester co.

A township of Gloncester co.

A township of Munterdon co.

A township of Sumerset co.

A village of Sussex co., about 10 m. E.N.E. of Newton.

A township of Vernon co.

Prank'lin, in New Vergisia, a post-village, capital of Pendleton co., about 16 m. S.E. of Wheeling.

A thriving city, capital of Johnson co., on two important railroad lines 20 m. S. of Indianapolis; is the tradecenter of a fine farming region, and has several flour mills and other manuf.; seat of Franklin College (Baptist). Pop. (1897) about 4,500.

A township of Marion co.

A township of Marion co.

A township of Wayne co.

A township of Ripley co.

A township of Ripley co.

A township of Ripley co.

A township of Wayne co.

Frank'line, in force, a N. co.; area, 576 sq. m. Rivers.

Frank'line, in force, a N. co.; area, 576 sq. m. Rivers.

FRAN

A township of Adams co. A township of Brown co.

A township of Clermont co.
 A township of Columbiana co.
 A township of Coshocton co.

—A township of Tuscarawas co.

—A post-village and township of Warren co., on the Miami river, about 33 m. N. by E. of the city of Cincinnati.

—A township of Wayne co.

Frank/lim, in Oregon, a post-village of Lane co.

Maryland; area, about 740 aq. m. Ricera. Conedogwinet, Antietam, Tuscarora, and Conecocheague creaka. Surface, broken and mountainous, South Mountain rising on the E., and Tuscarora Mountain on the W. border; soil, in the 'valleys extremely fertile. Miss. Iron, limestone, marble, and alate. Cap. Chambersburg. Pop. (1880) 51,433.

A township of Adams co.

—A township of Adams co.

—A township of Bradford co.

—A township of Bradford co.

—A township of Carbon co.

—A township of Carbon co.

—A township of Fayette co.

—A township of Fayette co.

—A township of Fayette co.

—A township of Lycoming co.

—A township of Lycoming co.

—A township of Lycoming co.

—A township of Susquehanna co.

—A township of Susquehanna co.

—A township of Susquehanna co.

—A township of Psynder co.

A township of Washington co.

—A township of Wash

(1890) 29,750.

A post-town of Franklin co. Pop. 1,300.

Frank'lin, in Virginia, a S. co.; area, about 750 sq. m. Riers. Staunton river. Surface, diversified, the Blue Ridge extending along the N.W. border; soil, fertile.

Cap. Rocky Mount. Pop. (1890) 24,985.

A post-village of Southampton co., about 88 m. S.S.E. of Richmond.

co., abt. 65 m. N. of New York city.

Prank Tindale, in Pranyleania, a post-village of Bradford co., abt. 9 m. S.W. of Towanda.

Prank Tin Falls, in New York, a post-vill. of Franklin co., on the Saranac River, abt. 35 m. S.S.E. of Malone.

Prank Tin Furnace, in New Jerze, a post-village of Sussex co., on the Walkill River, abt. 10 m. N.E. of

Newton.

Framk Tin Furnace, in Ohio, a post-village of Scioto co., on the Ohio River, abt. 12 m. E.S.E. of Portsmouth.

Frank Tin Grove, or Fanklin, in Illinois, a post-village of Lee co., abt. 90 m. W. of Chicago.

Frank Lim Iron Works, in New York, a post-village

of Queida co

of Oneron co.

Frame 1/1 in Island, an island in the Antarctic Ocean, discovered by Sir John Ross, in Lat. 76° 8′ S., Lon. 168° 12′ E. It is 12 miles long and entirely composed of

igneous rocks.

Frank'lin Island, in Masse, an island and lighthouse at the mouth of St. George's river. It has a flashing light 50 feet above the sea-level; Lat. 43° 51' N., Lon. 69° 10' W.

Frank lin'ie, a. (Elect.) Applied to electricity executed by federica.

Framkilm let. a. (2002.) Applied to electricity executed by friction.

Framk'limite, n. (Min.) A ferriferous oxide of zinc.

Crystals, indistinct octohedral; color, iron-black; opaque;

brittle. Acts alightly on the magnet. Sp. gr. 5069. Comp.

Peroxide of iron 66.07, seequloxide of manganese 12.24, brittle. Acts slightly on the magnet. Sp. gr. 5-069. Comp. Peroxide of iron 65.07, sesquioxide of manganese 12-24, oxide of xinc 21-39, silica 0-29. Occurs abundantly at Sterling and Hamburg, New Jersey, near Franklin Furnace; also found user Eibach, in Nassau, and at Altenberg, near Aix-la-Chapelle.

Frank film Mills, in Ohio, the former name of Kent, a thrising post-village of Portage co., on the Cuyahoga river, 10 m. N. E. of Akron. Pop. (1897) about 4,000.

Frank film Square, in Ohio, a post-office of Columbiana co., about 155 m. N. E. of Columbias.

Frank film Station, in Ohio, a P. O. of Coshocton co.

Frank film tom, in Kentschy, a post-office of Henry co., about 8 m. E. of Newcastle.

Frank filmtom, in Louisiana, a post-town, capital of Washington parish, on the Bogue Chitto river, about 70 m. N. of New Orleans.

Frank filmtom, in Now York a post-tillage of Schoharis co., about 27 m. N. E. of Raleigh. Pop. (1897) 500.

Frank filmtom, in New York a post-tillage of Schoharis co., about 30 m. W. S.W. of Albany.

Frank filmtown, in Pennsylvania, a post-borough of York co., about 8 m. S.W. of Harrisburg.

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Frank filmtown in M. S.W. of Harrisburg.

Frank filmtown in M. S.W. of Harrisburg.

Frank filmtown in M. S.W. of Harrisburg.

Pramk'limtowm, in Pennejivania, a post-borough of York co., about 18 m. S.W. of Harrisburg.

Pramk'limville, in Illinois, a village of Boone co.

—A village of McHenry co.

Framklimville, in Maryland, a P.O. of Baltimore co.

Framklimville, in New Jersey, a village of Essex co., about 10 m. N.W. of Jersey City. This village is now called Franklim.

—A post-village of Gloucester co., about 16 m. S. S. E. of Woodbury. It was formerly called Little Ease.

Framklimville, in New York, a post-village and township of Cattarangus co., about 45 m. S. S. E. of Buffalo. Pop. of township (1897) about 2,300.

Framklimville, in North Carolina, a post-office of Randolph co., on Deep river, about 70 m. W. of Raleigh.

Framklimville, in Pennsylvania, a post-office of Huntingdon co.

tingdon co.

Prank'ly, are. In a frank manner; openly; freely; candilly; unreservedly.

Prank'ness, s. Quality of being frank; plainness of speech; candor; freedom in communication; openness;

repech; candor; freedom in communication; openness; ingenuousness; fairness.

Franks, s. pl. (Hist.) The name of a confederation which was formed, about 240, by the tribes dwelling on the banks of the Lower Rhine and the Weser, who united under the title of Franks or free men. They invaded Gaul in 250, and for 12 years ravaged that country and Spain, extending their incursions as far as the opposite continent of Africa. Probus drove them back into their native marshes in 277; but their influence gradually increased, and after the death of Constantine I., in 337, they constituted a powerful faction at the imperial court. In 355 they again invaded Gaul, and were defeated by Julian, who permitted them to establish a colony in Brabant or Taxandria. In 418 they again invaded Gaul, where, under their leader Pharamond, they founded the modern kingdom of France, que.

Frank's Island Lighthouse, in Louisiand, an

mond, they founded the modern kingdom of France, qr.

Frank's Island Lighthouse, in Louisiana, an island and light-house, at the mouth of the Mississippi River, N.E. poss. It has a fixel light 78 ft. above guiflevel. Lat. 29° 8° 30° N., Lon. 89° 1′ 24′ W.

Franks'town, or Farkstown, in Colorado, a post-village of Douglas co., abt. 28 m. 8.8.E. of Denver.

Franks'town, in Pessentonia, a post-town and township of Bair co. Pop. of township about 1,400.

Franks'tom, in Indiana, a post-town of Madison co., about 10 m. N. N.W. of Anderson.

FRAU

Frank'lim Bay, an arm of the Arctic Ocean, extending into British North America, between Port Fitton and Cape Parry

Frank'lim City, in Massachusetta, a post-village of Norfuk co., 30 m. 8.W. of Boston. Now Franktin.

Frank'lim College, in Tensessee, a village of Davidson co., near Nashville.

Frank'lim Corners, in Pransylvania, a post-office of Eric co.

Frank'lim Creek, in Ohio, enters the Miami River in Butler co.

Frank'lim Creek, in Ohio, enters the Miami River in Butler co.

Frank'lim Creek, in Now York, a village of Dutchess co., abt. 55 m. N. of New York city. zued; mad; delirious; raving; furious; outrageous; desperate; raging; wild and disorderly; distracted; characterized by violence, fury, and disorder; noisy; wild; irregular; turbulent.

Fram'tically, or Fram'ticly, adv. Madly; distractedly;

outrageously.

Fram'tieness, n. Quality of being frantic; madness.

Fram'tieness, a. Quanty or being manner, fronzy.

Fram sensbrumm, a village of Bohemia in the Austrian empire, 18 m. from Elbogen, noted for its bath establishments. From its 4 mineral springs are exported about 200,000 bottles of water annually.

Frasca'ti, a town of Central Italy, situated in the Campagna di Roma, about 11 miles S.E. of Rome. Here are the ruins of Tusculum (q.v.), the birthplace of Cato, and also the residences of Lucullus, Cicero, and Moscenss. Pop. usually about 4,300; but during the summer months it is

also the residences of Lucullus, Cicero, and Moscenss. Pop.
usually about 4,300; but during the summer months it is
considerably increased by the influx of visitors.

Fraser, in Michigan, a post-office of Macomb co.

Fraser, a. (Bot.) A genus of N. American plants,
order Cientianacze. The Columba, P. Cirolinensis, is officinal in our pharmacopesia as a substitute for gentian-root, but it is less powerful.

Fraserburgh, a town and sea-port of Aberdeen co.
Sectland, about 18 miles from Peterhead. The harbor
was constructed at a cost of \$250,000. Pop. 3,500.

Frap, c. a. (Naut.) To prevent from blowing louse, as a
sail, by passing ropes around it.—To pass ropes or chains
around a weakened vessel so as to keep her together.

—To cross and draw together the several parts of a tackle,
to increase the tension.

F. E. A. S. A birevistion for Fellow of the Royal As-

to increase the tension.

F. R. A. S. Abbreviation for Fellow of the Royal Astronomical Society.

Frater'mal, a. [Fr. fraternel; Lat. fraternus, from frater, a brother, q.v.] Brotherly; pertaining to bretheren; becoming brothers.

Frater'mally, adv. In a brotherly manner.

Frater'mally, adv. In a brotherly manner.

Frater'mally, adv. In a brotherly manner.

Frater'mally, a for Fraternize. (n.)

Frater'mally, a body of men united together in one brotherhood. In Roman Catholic countries, a society originated for purposes of devotion. Such societies are of several sorts, the more remarkable of them being,—

1. of the Rosary, founded by St. Dominic, and divided into two branches, called the Common rosary and the Perpetual rosary, the latter being under very strict eninto two branches, called the Common rosary and the Perpetual rosary, the latter being under very strict engagements, and enjoined to repeat the rosary continually; 2. of the Scapulary, whom, according to the Sabatine bull of John XXII., the Virgin has promised to deliver out of hell the first Sunday after their death; 3. of St. Francis's girdle, who are clothed with a sack of gray color, which they tie with a cord, and in procession walk barefooted, carrying in their hands a wooden cross; 4. of St. Augustine's leathern girdle, which comprehends a great number of devotees. Italy, Spain, and prehends a great number of devotees. Italy, Spain, and Portugal are the countries where the greatest number of these fraternities are to be seen, some of which assume the name of arch-fraternities. Pope Clement VI. sume the name of arch-fraternities. Pope Clement va. instituted the arch-fraternity of Charity, which distributes bread every Sunday among the poor; and the fraternity of Death buries such dead as are abandoned by their relations, and causes masses to be celebrated for them.

rater'nize, v.s. [Fr. fraternizer.] To associate or hold fellowship as brothers, or as men of like occupa-

tion or disposition.
-v. a. To cause to associate as brothers.

—e. a. To cause to associate as brothers.

Frater'miser, n. One who fraternises.

Frater'ill, FraticeLians, or Lesser Brithers, a branch of the Franciscans (q. v.), that arose in Italy towards the end of the 13th century. They were, according to Milman, bound to the Coelestinians by the closest ties. By some authors they have been confounded with the Beghards, to whom the name Fraticelli, or Fraterelli, was applied as a term of reproach. They disappeared towards the end of the 15th century.

Fratificide, n. [Lat. fratricidium—frater, and cado, to kill.] The crime of murdering a brother.—One who murders a brother.

murders a brother.

Frat'ta-Maggio're, a town 6 m. N.E. of the city of Naples, Italy. It rears great numbers of silk-worms, has extensive rope-walks, and furnishes great quantities of strawberries for the market at Naples. Pop. 8,000.

Frand. n. [Fr. fraule; Sp. freude, from Lat. fraus, fraudis, a cheating, imposition. Etymol. uncertain.] A cheating; deceit; imposition; deception; trick: artifice by which the right or interest of another is injured; guile; subtlety; craft; wile; circumvention; stratagem; cheat.

(Law.) All deceitful practices in defrauding, or en-

desvoring to defraud, another of his known right, by means of some artful device, contrary to the plain rules of common honesty. It is condemned by the common law, and punishable according to the heinousness of

the offence. All frauds and deceits for which there is no remedy by the ordinary course of law, are properly cognizable in equity, and, indeed, constitute one of the chief branches of cases to which the purisdiction of chancery was originally confined. There are tew cases of fraud that are not cognizable by equity, though in most cases the courts of law have a concurrent jurisdiction. Where a fraud can be clearly established, courts of law exercise a concurrent jurisdiction with courts of equity. Wherever fraud or surprise can be imputed to, or collected from, the circumstances, equity will interpose and grant relief against it. It is impossible to lay down any general rules that shall be applicable to all kinds of fraud, for they are innumerable and ever varying; the ingenuity of man ever finding out new modes of deceit and new means of avoiding detection. A fraudulent conveyance of lands or goods to deceive creditors is, as to creditors, void in law; and a fraudulent conveyance to deceive purchasers is also to such purchasers void. Where a person is party to a fraud, lift that follows by reason of that fraud shall be said to be done by him. A party prejudiced by a fraud may file a bill in equity for a discovery of all its circumstances. Mere insequacy of price alone is not a ground for a court to annul an agreement; but if there be such inadequacy as to show that the person did not understand the bargain he made, or was so oppressed that he was glad to make it, knowing its inadequacy, it will show a command over him which may amount to a fraud. If a person be fraudulently prevented from doing an act, equity will consider the act as done; and equity also relieves mand over him which may amount to a fraud. If a person be fraudulently prevented from doing an act, equity will consider the act as done; and equity also relieves against bargains made under misconception of rights. In treaties, concealment of a material fact by one of the parties, in order to keep the other in ignorance, whereby to profit, is a gross fraud, and the contract will be set aside in equity. Suppressio veri (suppression of truth), suggestion false hood), in solemn conveyances, releases, or agreements, will afford a sufficient ground for setting them aside. Constructive fraud is applied to such acts or contracts as, though not originating in any actual evil design or contrivance to perpetrate a positive fraud, or injury upon other persons, or to violate public or private confidence, or to impair or injure the public interests, are deemed equally reprehensible with positive fraud, and are prohibited by law, as within the same reason and mischief as acts and contracts done mails aniso. Gross criminal frauds are punishable by way of indictment or information; such contracts done main animo. Gross criminal risides are punishable by way of indictment or information; such as playing with false dice, causing an illiterate person to execute a deed to his prejudice, &c. For these, and such like offences, the party may be punished with fine and imprisonment. Frauds are not indictable at common law unless they be such as affect the public,—as a reading number of providing the resistance.

mon law unless they be such as affect the public,—as vending unwholesome provisions, or using false weights or measures; or by way of conspiracy; or unless they affect the crown or the administration of justice.

Fraud'full, a. Full of fraud; deceitful in making bargains; trickish; treacherous; containing fraud or deceit.

Fraud'fully, adv. Deceitfully; with intention to deceive, and gain an undue advantage; trickishly; treacherously; by strategem.

Fraud'lessly, adv. In a fraudless manner.

Fraud'mlence, Fraudulenct, n. [L. Lat. fraudulentia... Deceitfulness; trickishness in making bargains in social concerns; pronences to artifice.

Lentia. Deceitfulness; trickishness in making bergains in social concerns; proneness to artifice.
Frand'mlent, a. [Lat fraudulentus, from fraus, deceit.] Deceitful; fraudful; crafty; trickish; deceptive; treacherous.—Practising deceit in making contracts; unfair; dishonest.—Containing fraud; founded on, or proceeding from fraud; as, a fraudulent agreement.
Fraud'ulently, adv. By fraud; by deceit; by artifice or imposition.

rraught, (frawt,) a. [Anc. pp. of fraight, to load, now written freight, q.v. Ger. fracht, cargo.] Freighted; laden; loaded; charged.

"A vessel richly fraught."-Shaks.

"A vessel richly fraught."— эваке.
Fraum'hofer's Limes. See Spection.
Fraustadt, (froistat.) a town of Prussia, in the grandduchy of Posen, 55 m. from Breslau. Manuf. Linens,
woollens, hats, and Morocco leather. It has a considerable trade in grain and cattle. In the vicinity are wootless, nate, and moreover learner. It has a considerable trade in grain and cattle. In the vicinity are about 100 windmills. In 1706 the Swedes here defeated the Saxons and Russians. Pop. 7,926.

Fraximel'la, n. (Bot.) See Digramms.

Fraximine, n. (Lat. fraxinus, a beech-tree.) (Chem.) A neutral vegetable principle, of a bitter taste, obtained from the bark of the Praxinus excelsion.

A neutral vegetable principle, of a other taste, obtained from the bark of the Praximus excilior.

Fraximus, fraks'enus, n. From Lat. frango, I break, in allusion to its brittleness. [Bot.] The Ash, a genus of the order Okacza, consisting of about 50 species, mostly natives of N. America and Europe. The leaves are deciduous, and pinnate, with a terminal leaflet. The flowers are very imperfect, the calyx being obsolete and the corolla either wanting or 3/ partite. The fruit is a Samara, q. v. F. Americana, the American or White-ash common in the N. States and in Canada, is a beautiful and umbrageous tree, rising to the height of 100 to 150 feet. The wood is white, tough, hard, and light, much valued by wheelwrights, coach-makers, and turners. It is peculiarly adapted for agricultural implements, handles for tools, and ladders. Some interesting varieties have been developed by cultivation: the Weeping-ash, with branches drooping to the ground; the Curled-leaved ash, with dark green wrinkled or curled leaves; and the Entire-leaved ash, with many or all the leaves simple. The sweet concrete exudation known as leaves simple. The sweet concrete exudation known as manna is procured by making incisions in the stems of certain species of Praxinus, chiefly F. ornus and robusdifolia, natives of Calabria, Apulia, and Sicily. Manna is

a mild, agreeable laxative. It owes its properties to a Fred'erica, in Delaware, a post-village of Kent co., on peculiar resin called mannite. The insect which produces the white wax of China feeds upon the species | Fred'erica, in Georgia, a post-office of Glynn co., on



Pig. 1068. - AMERICAN ASH, (Frazis

Fray, s. [Contr. from afray, q.v.] A broll, quarrel, or violent riot that puts men in fear; a combat; a battle; a fight; also, a single combat or duel; a contest; contention; altercation; feud.

"Nature and death continue long their frag." -[Fr. fraie, from frayer; Lat. fricare, to rub.] A rub; fret or chafe in cloth.

ret or chale necon.

-o. a. [Contr. from affray, q. v.] To frighten; to terrify.

-[Fr. frayer; Lat. fricare, to rub] To fret, as cloth by wearing; — hence, to ruffle; to grate upon; as, to fray

wearing; — hence, to ruffie; to grate upon; as, to fray one's temper.

—e. n. To rub; to wear off; to ravel, — said of cloth.

Fraying, n. The outer integument or peel which a deer rubs from his horn.

Fra/ser, in Pennsylvania, a post-office of Chester co.

Fra/ser River, a river of British N. America, enters the Gulf of Georgia, opposite the island of Vancouver, in Lat. 45° N.

Fra'seysburg, in Ohio, a post-village of Muskingum co, about 61 m. E. N. E. of Columbus.
Fra'sier's Bot'tom, in W. Virginia, a post-office of

Praiser's new suran,
Putnam co.
P. R. B. S., Fellow of the Royal Botanic Society.
F. R. C. P., Fellow of the Royal College of Physicians.
F. R. C. S., FeRow of the Royal College of Surgeons.
Freak, (freek,) n. [A S. free, greedy, bold; Ger. freeh, saucy, impudent.] A sudden and causeless starting and change of place.—A sudden, causeless change or turn capricious prank; a whim; a fancy; change of place.—A sudden, causeless change or turn of the mind; a capricious prank; a whim; a fancy caprice; frolic; sport.

To wax me more he took a freak,
To slit my tongue and make me speak."—Swift. v.a. [A Scottish word introduced into English by Thom

son.] To variegate; to checker. aked with many a mingled by

Freak'ish, a. Apt to change the mind suddenly; whimsical; capricious.

Freak'ishiy, adv. Capriciously; with sudden change of mind without apparent cause.

Freak'ishness, n. Capriciousness; whimsicalness.

Freak'ishness, n. Capriciousness; whimsicalness.

12 m. S.E. of Salem.

Freas burg, in New Jersey, a village of Salem co., abt. 12 m. S.E. of Salem.

Frec'kle, n. [Dan. fregne: Ger. fick, a spot, a discoloration.] (Med.) A cutaneous affection of the countenance to which persons of a florid complexion are greatly subject, especially females with auburn hair. Freckles are small yellow spots that break out over the face in the hot period of summer, and by their number give a stained and unpleasant appearance to the countenance. A still more obstinate form of freckles appears in the winter, often proceeding from a disordered state of the stomach. Various applications have been proposed for their removal; and perhaps the best is a liniment composed of lime-water and oil, with the addition of a little ammonia. The Irish peasantry are in the habit of washing their faces with buttermilk as a cosmetic, and with great success. An excellent wash for freckles is also made by scraping some horse-radish very fine, and letting it stand for some hours in buttermilk, then straining, and using the wash night and morning.

The name is also commonly applied to any small spot or discoloration.

or discoloration.

e. a. To spot or cover with freckles.
e. n. To acquire freckles: to be seen

e. n. To acquire freckles; to be spotted.

Freckled, a. Spotted; having small yellowish spots on the skin or surface.

Freckledness, n. The state or condition of being

freckled.

freckled.

Freckled.

Freckly, a. Full of freckles; sprinkled with spots.

Fred, n. [A. S. fridhu, peace; Ger. friede.] Peace; a
word found only in composition, principally with proper
names; sa, Alfred, all peace; Winifred, a friend's peace;
Frederic, the king of peace.

Motherkill Creek, abt. 13 m. 8. of Dover.

Fred'eriea, in Georgia, a post-office of Glynn co., on
St. Simon's Sound, abt. 70 m. S.S.W. of Savannah.

Fred'eriea, in Inuc, a post-office of Bremer co.

Frederic'ia, a fortified town of Denmark, in Jütland,
on the Little Belt, 12 m. from Veyle; Lat. 55° 35' N.,
Lon. 9° 44' E., pop. 5,500.

Fred'eriek, or Fred'erie, the name of several
monarchs or princes, of whom the following are the
most eminant:

most eminent:

most eminent:

GERMANT.

Frederick I., surnamed BARBAROSSA, emperor of the West, son of Frederick, duke of Suabia, B. 1121, and was chosen to succeed his uncle Conrad III. in 1152. He had accompanied Conrad to Palestine five years previously, and his great qualities had aiready appeared. He was crowned at Aix-la-Chapelle a few days after his election. His great ambittion was to secure the independence of the empire, and, above all, to be master of Italy. His first expedition to Italy was made in 1154, when, after subduing several towns in Lombardy, he went to Rome, and, after some delays, had himself crowned emperor by Adrian IV. He marched a second time into Italy in 1158, took Breecia and Milan, and at the celebrated Diet at Honcaglia assumed the sovereignty of the towns, and received the homage of the lords. On his return to Germany he triumphed over Bohemia, and made Poland tributary to the empire. After the death of Pope Adrian, F. had three anti-popes in succession elected in opposition to Alexander III., who excommunicated him and his pope, Victor. The After the death of Pope Adrian, E had three anti-popes in succession elected in opposition to Alexander III., who excommunicated him and his pope, Victor. The same year, 1160, he besieged and took Crema, after a most courageous defence. In 1162 he conquered Milan, and had the fortifications partly destroyed and many of the public buildings; after which the other towns of Lombardy submitted to him. Fresh revolts, excited by the tyrannical measures of his officers, recalled him to Italy in 1164; but he retired without engaging the army of the League. Again, there, in 1166, he traversed the Romagna, levied contributions on the towns, besieged Ancona, and had himself crowned a second time at Rome by the anti-pope Pascal. A fresh league being formed against him, he put its members under the ban of the empire, and returned to Germany. In 1174 he besieged, unsuccessfully, the newly-founded town of Alessandria, and in the following year was totally defeated by the Milanese at Como. Boon after he made peace with the Pope and the towns of Lombardy. In 1188 he assumed the cross, set out in the following year on the third crusade, was opposed on the march oy the Greek emperor and the Sultan, arrived in Asia, and was drowned while crossing a river, in June, 1190. F was great, not only as a soldier, but as a ruler. His administration was marked by justice, his subordinate officers were chosen for their capacity and probity, he was himself an educated man, and promoted education and

great, not only as a soldier, but as a ruler. His administration was marked by justice, his subordinate officers were chosen for their capacity and probity, he was himself an educated man, and promoted education and literature. His memory is still cherished aniong the peasants of Germany, who dream of the return of Frits Redbeard, as the Welsh did of King Arthur.

Fredbeard, as till literature with Produced a true with the welsh did of King Arthur.

Fredbeard, as till literature, the Sultan of Egypt, by which he became master of Jerusalem. He entered the city, crowned himself, (no priest daring to do it.) and returned to Kurone. He recovered himself, (no priest daring to do it.) and the cluded a truce with Kameel, the Sultan of Egypt, by which he became master of Jerusalem. He entered the city, crowned himself, (no priest daring to do it.) and returned to Rurope. He recovered his states, made peace with the Pope, and suppressed the revolt of his son Henry, who was then imprisoned for life. In 1235 F. began the war with the cities of Lombardy, having for his ally Eccelino, tyrant of Verona. After his victory of Cortenuova, most of the cities submitted to him, and he approached Rome, but did not attack it. He took Ravenna, Faenza, and Benevento; and, in 1241, his fleet, commanded by his natural son Enzio, whom he made king of Sardinin, defeated that of the Genoses, and captured the cardinals and bishops who were on their way to attend a council against him. F. promoted the election of Innocent IV., who had been his friend, and made a treaty with him; but he soon found Innocent a most determined enemy. A new anathema and sentence of deposition, and release of his subjects from their allegiance to him, was published in 1245. The mediation of St. Louis utterly failed to bend the pope to reconciliation. Rival emperors were set up, the war in Italy continued, Parma was lost in 1248, Enzio was defeated and made prisoner in the following year, and F. himself died at Viorenzuoli, 1250. F. was the most accomplished sovereign of the Middle Ages; but his strong sympathies with his Italian motherland, and his unremitting endeavors to establish a compact and all-supreme empire in Italy, were the causes, not only of his own misfortunes, but of the miseries

which he brought upon the German empire, by embroiling him in costly wars abroad, and leading aim to neglect the welfare, and sacrifice the interests of his German subjects.

FREDERICK III., was the son of Albert I., and was chosen emperor in 1314, by some of the electors, but the majority elected Louis of Bavaria, who defeated and took Frederick prisoner at Mühldorf, in 1322. The latter then renounced his claim, and D. 1330.

FREDERICK IV., called the Picific, B. at Innepruck. 1415, ascended the throne in 1440, and was crowned at Rome in 1442. His reign was passed in forming plans for the pacification of the empire. He is said to have died of a surfeit of melons, or in consequence of an amputation of his leg. He left it to his son Maximilian to carry out the device inscribed upon his palaces and books, A. E. I., O, U; which characters are generally suppsed to represent the motto, Austria est Imperure Orba Universe. D. 1493.

DENNARK.

DENMARK.

DENMARK.

DENMARK.

DENMARK.

DENMARK.

Succeeded his nephew Christiern (or Christian) II., on
the deposition of the latter, in 1822, and entered into
an alliance with Gustavus I., king of Sweden. After
taking Copenhagen, he gained over all the nobility, and
introduced Lutheranism into his dominions. D. 1534.

REDERICK II., the son and successor of Christiern (or Christian) III., B. 1834, ascended the throne in 1859. He was
a great friend of learning, and was a patron of Tycho
Brahe and other men of science. He waged a long war
with Sweden, which ended in 1870. D. 1888.

REDERICK III., B. 1609, succeeded his father Christiern IV.
in 1648. The most remarkable event of his reign was
his changing of the constitution from an elective to an
hereditary monarchy. D. 1670.

Frederick III., B. 1600, succeeded his father Christiern IV. in 1648. The most remarkable event of his reign was his changing of the constitution from an elective to an hereditary monarchy. D. 1670.

Frederick IV., B. 1671, ascended the throne on the death of Christiern V. in 1609. He leagued against Charles XII. of Sweden, who forced him to make peace; but when Charles field to Turkey, Frederick drove the Sweden out of Norway, and concluded a favorable peace, retaining possession of the duchy of Schleswig. D. 1730.

Frederick V., grandson of the preceding, was B. 1723, and came to the throne in 1746. The character of his reign may be inferred from the following remark, which, on his death-bed, he made to his successor Christiern VII.:

"It is a great consolation to me, my son, that I have not injured any person, and that my hands are not stained with one drop of blood." D. 1766.

Frederick VI., king of Denmark, B. 1768, ascended the throne in 1808; from 1744 he was associated in the gov. with his insane father. He had to repair the damages done by the English in their bombardment of Copenhagen in 1807, and to wage a war with the Swedes, who unsuccessfully attempted to take Norway. Peace was signed with Sweden, in 1809. Allying with Napoleon, Norway was, in 1814, given to Sweden, under Bernadotte; Pomerania and the isle of Rügen falling to Denmark. D. 1839.

Frederick, king of Sweden, was the eldest son of Charles, landgrave of Hesse-Cassel. He married the sister of Charles XII., on whose death, in 1718, the states of Sweden elected her queen, and in the year following consented to her resigning the crown to her husband. He had a long and unsuccessful war with Russia, which ended in a disadvantageous peace to Sweden. He the first of Charles XII., on whose death, in 1718, the states of Sweden elected her queen, and in the year following consented to her resigning the crown to her husband. He had a long and unsuccessful war with Russia, which ended in a disadvantageous peace to Sweden. He thad a long and unsucces

restored the finances, aided agriculture and commerce, and founded an academy at Stockholm. D. without issue, 1751.

PRUSSIA.

PRUSSIA generally called the GREAT ELECTOR, was a B. in 1620, and at the age of 20 years succeeded his father as electror of Brandenburg. He is considered as the founder of Prussian greatnesse; and from him was derived much of that military spirit which became the national characteristic. He made Prussia free from feudal subjection to Poland, conquered Pomerania, joined the League against Louis XIV., and defeated the Swedes who invaded Prussia in 1674. He applied himself with much wisdom and earneatness to the promotion of the well-being of his subjects, favoring trade, making roads, &c. By affording protection to the Prench Protestant refugees, he gained, as citizens of the state, 20,000 industrious manufacturers, an acquisition of no slight importance to the north of Germany; and he also gave great encouragement to agricultural improvementa. He founded the library at Berlin, and a university at Dubburg; and at his death he left to his son a country much enlarged, and a well-supplied treasury. D. 1688.

Prederick I., first king of Prussia. (FREDERICE III. as elector of Brandenburg.) B. 1657, was son of the above. He succeeded his father in 1688, entered into the alliance against France, and seized Bonn and other towns, sent auxiliaries to the emperor against the Turka, and, after a dispute of some years, sold to the emperor the circle Schwiebus, which the Great Elector had asequired in exchange for the principalities of Lieguitz, Brieg, and Wohlau. He supported the emperor in the war of the Spanish Succession, and in 1701 obtained from him the title of king, which he had long coveted Frederick grafifed his love of pomp in the ceremony of his coronation at Küui

ences, Berlin, and made Leibnits first president. He was thrice married; his third wife became insane, but her state was concessed from him. One day she escaped, rushed into the king's apartment, smashing the giass door, and so terrified him that he immediately fell into a fever, and after six weeks' illness died, Fob., 1713. Faiderick William I., son of the above, and father of Frederick the Great, was a in 1688, and commenced his reign in 1713, after having married a daughter of the elector of Hanover, afterwards George I. of England. In 1716 he declared war against Charles XII. of Sweden, and in conjunction with Denmark took Stralsund; but on the death of Charles, in 1718, he made peace. D. 1740.—The habits of this sovereign were entirely military, and he labored unwarfieldly to promote the discipline of his troops. One of his strongest peculiarities was an extraordinary love for tall soldiers; and in order to procure these sons of Anak, he had agents employed in all parts of Europe. He held science and literature in profound contempt; but money he worshipped, and men of amilitary character after his own ideal he respected and escouraged. The consequence was, that he left an abundant treasury and a well-appointed army of 66,000 men. Priderick the Great, was born 24th January, 1712, and be degan to reign in 1740. He found himself in possession of a full treasury and a powerful army, which he sone employed in attacking Asstria, and conquering from her the province of Silesia, little-1742. In 1744 he engaged in a second war with Asstria, which was terminated in 1746, and left him in possession of Silesia, but with no augmentation of power, though his military renown was raised throughout Entheology in the content of the province of the province

possession of Silesis, but with no sugmentation of power, though his military renown was raised throughout Europe. The great struggle of the Seven Years' War began in 1756. Prussia was now attacked by the Austrians, the Prench, the Saxona, and the Swedes, and her destruction and dismemberment seemed inevitaand her destruction and dismemberment seemed inevita-ble. England was her only ally. Prussia went through the struggle, and came out triumphant. When the peace of Habertsburg was concluded in 1763, Prussis did not cade an inch of land, or pay a dollar of money; and from that time forth she was recognized as one of the five great powers of Europe. For this glorious result she was indebted to her king. It is not merely the military ganius of Frederick, as displayed during the sanguinary



Fig. 1069. - PREDERICE II., (THE GREAT.) (King of Prussia.)

(King of Prussia.)

(King of Prussia.)

(King of Prussia.)

campaigns of the Seven Years' War, that demands our attention, for we cannot help admiring also his moral courage and his indomitable energy under reverses which would have crushed almost any other spirit. Though victorious at Prague, at Roebach, and Lissa (USV), at Zorndorf (1758), at Liegnits and Torgau (1760), he suffered heavy defeats at Collin (1757), at Hochkirchen (1758), at Kunnersdorf (1759); and his lieutenants, with the exception of Prince Ferdinand of Brunswick, were generally unsuccessful. But Pr.'s firmness never failed him, even when ...Il hope seemed lost. In a period of extreme danger, he wrote to Voltaire (who had advised him to beg mercy from his enemies), "I am a man, and therefore born to suffer. To the rigor of destiny I oppose my own constancy. Menaced with shipwreck, I will bear the storm; I will be king in spirit; and I will de, as I have lived, a king." — After the conclusion of the war, P. exerted himself carnestly in relieving the suffering which so many years of carnage and devastation had brought upon Prussia. P. died 17th Amenat the war, F. exerted himself earnestly in relieving the suffering which so many years of carnage and devastation had brought upon Pruesia. F. died 17th August, 1188. He was fond of the society of literary men, and was himself an author of many works of considerable merit. During his struggles against Austria and France, F. was regarded in England and America as the champion of Protestantism, and he was called a second Gustavus Adelphus. He ill deserved the title. The disciple of Voltaire, he is supposed to have had no religious faith whatever. Franc. III. See F. Wh.
PREDRICK WILLIAM II., king of Pruesia, was nephew to Frederick the Great, and was born in 1744. He succeeded his uncle in 1786, and gave himself up, as he had long done, to low pleasures, wasting his resources on

FRED

his mistresses and favorites. He entered into the Triple; Alliance in 1788; made an alliance with the Porte; sent an army under the Duke of Brunswick to invade France, in 1792; took part in the second partition of Poland; and made peace with France in 1795. Died, 1797. France in 1797 by maintaining a strict neutrality in the various alliances with and against France, which resulted from the ambitious designs of Napoleon I. In 1805, however, he yielded to the solicitations of Russia, allying himself with the Czar against the French emperor. The rapid campaign of 1800, and the defeat of the Prussians at Jena, opened the gate of Berlin to the enemy, in whose hands it remained till 1809. In 1807 the battle of Friedland led to the humiliating peace of Tilsit, by which Frederick lost half his dominions. Restored to his capital, the king diligently endeavored to repair the evils of war; but new disasters overtook him, and his kingdom suffered greatly during the struggle from 1812 to 1814. Forced, in the former year, to contribute a force of 30,000 men to Napoleon from Eliu, he once more joined the allies. After the victory of Waterloo, in which the Prussians at Junka open for Blin, he once more joined the allies having triumphed over the Fred'erick. The allies having triumphed over the Fred'erick whom seek, played an important part, Prussia, once more at peace, gradually recovered the losses she had sustained, under the wise and paternal tion contributed greatly to the maintenance of peace. Throughout his life, he was a warm defends. Amance in 1705; mane as an analysis with the Prote; sent an army under the Duke of Brunswick to invade France, in 1702; took part in the second partition of Poland; and made peace with France in 1705. Died, 1707.

FREDERICK WILLIAM III, king of Prussia, son of the above, commenced his reign in 1707 by maintaining a strict neutrality in the various alliances with and against France, which resulted from the ambitious designs of Napoleon I. In 1805, however, he yielded to the solicitations of Russia, allying hinself with the Czar against the French emperor. The rapid campaign of 1804, and the defeat of the Prussians at Jena, opened the gates of Berlin to the enemy, in whose hands it remained till 1809. In 1807 the battle of Friedland led to the humiliating peace of Tilsit, by which Frederick lost half his dominions. Restored to his capital, the king diligently endeavored to repair the evils of war; but new disasters overtook him, and his kingdom suffered greatly during the struggle from 1812 to 1814. Forced, in the former year, to contribute a lorce of 30,000 men to Napoleon's army, he subsequently joined his troops with

poleon's army, he subsequently joined his troops with those of Russia. The allies having triumphed over the French at Leipsic Frederick William, in 1814, entered Paris with the Czar Alexander. He also accompanied the latter to England in the same year. On the return of Napoleon from Elba, he once more joined the allies. After the victory of Waterloo, in which the Prussians, under Blütcher (whom see), played an important part. Prussia, once more at peace, gradually recovered the losses she had sustained, under the wise and paternal sway of Frederick, whose constant efforts and moderation contributed greatly to the maintenance of peace. D. 1840. — Throughout his life, he was a warm defender of the Protestant religion, and a patron of education. He never redeemed his promise, however, to bestow a representative constitution on his people. The establishment of the provincial estates only affected very slightly the absolute power, which, it is true, he wielded with ability, and with a kind of paternal affection for his people. It may finally be said of him, that, a waverer between the absolutate party and the liberal party, he secured, as is the lot with most undecided men, the respect and adherence of neither.

FREDERICK WILLIAM IV., king of Prussia, on the death of his father, succeeded to the throne in 1840. He served, as a simple officer, in the campaigns of 1813 and 1814, and evinced, at an early period of his life, a very great love for the arts, which he preserved throughout his career. During the first years of his reign his subject anxiously demanded the reform of the government, requiring the liberal constitution which had been promised them in 1815, in return for the great sacrifices they had made during the continental war. In 1847, at a general diet of the Prussian states, many of these reforms were granted, and it was thought that the kingdom might ecape the troubles of the next year's revolution. In March, 1848, however, the people and the troops came into collision, the king was obliged to change the

POLAND.

Frederick Augustus II., III. See AUGUSTUS.

Frederick Augustus II., III. See Accord.

SAXONI.

Frederick III., THE WISE, B. 1463, succeeded his father Ernest, 1430, as elector of Saxony. He is known chiefly as founder of the university of Wittenberg, and as the friend and very cautious protector of Luther, who was one of the first professors at the new university. It was by his arrangement that Luther after the

as the friend and very cautious protector of Luther, who was one of the first professors at the new university. It was by his arrangement that Luther, after the Diet of Worma, was seized and carried off to Wartsburg. He did not, however, establish the reformed faith in his dominions. He became administrator of the empire in 1519, and was offered the imperial crown, but declined it. D. 1525.

\*\*Prederick V.\*\*, Elector-Palatine and king of Bohemia, succeeded his father, Frederick IV., in 1610. In 1618 he married the Princess Klizabeth, daughter of James I, of England, and in the following year accepted the crown of Bohemia. He made a triumphal entry into Prague, followed in 1620 by his total defeat by the Imperial forces at the battle of Prague, and the loss of his

gernics.

\*red'ericksburg, in *Indiana*, a post-town of Washington co., on Blue river, about 15 m. 8. S.W. of Salem.

\*red'ericksburg, in *Iowa*, a post-township of Chick-

Fred'ericksburg, in Newa, a post-township of Chick-assaw co.
Fred'ericksburg, in Newa, a post-township of Chick-pred'ericksburg, in Ohio, a post-village of Wayne co., alout 9 m. S. E. of Wooster.
Fred'ericksburg, in Pesneyleunia, a post-village of Lebanon co., about 10 m. N. of Lebanon.
Fred'ericksburg, in Tesas, a post-village, cap. of Gillespie co., about 65 m. W. by S. of Austin.
Fred'ericksburg, in Virginia, a city of Spottaylvania co., on the Rappahannock river, about 65 m. N. of Rich-mond. Here, on Dec. 13, 1862, Gen. Burnside attacked the Confederates, who, under the command of Gen. Lee, occupied a strong position on the heights. The battle, after raging with desperate violence during the cay, terminated in the defeat of the Nationals. Little fight-ing took place Dec. 14 and 15, and Burnside was per-mitted to recross the Rappahannock without opposition, Dec. 16. This city enjoys a good local trade and has some manufactures. Pop. (1887) about 5,000.
Fred'ericksburg, in Missown, a post-office of Gas-connde co.

conside co.

Fred'erickshall, a town of Norway, on an inlet called Swinesund, 57 m. S.S. K. of Christians. On a per pendicular rock, 400 feet above the town, stands the strong fortress of Frederickstein, at the siege of which Charles XII. of Sweden was killed, Dec. 11, 1718. Pop.

Charles XII. of Sweden was killed, Dec. 11, 1718. Pop. (1895) 9,300.
Pred'erickshamm, or Hamina, a fortified town of Finland, 52 m. from Wyborg. Here, in 1809, the treaty which ceded Finland to Russia was sigued. Pop. (1895) 2,704.

Fred'erickshavn. See FLADSTRAND.

Fred'erickshavm. See Fladstrand.
Fred'erick's Gord, a pauper colony of the Netherlands on the borders of Overyssel and Friesland, 5. m. from Steenwyk. It consists of a large number of paupers, who are here employed in various manual occupations for the benefit of the state.
Fred'erickstadt, a well-built town of Denmark, 18 m. from Schleswig. It was founded by the Arminians, who, in 1821, were driven from the Netherlands by the decisions of the Synod of Dort.
Fred'erickstadt, a fortified town of Norway, on the Skager-rack, 46 m. from Christians. It has an arsenal. Manuf. Tobacco. Pop. 2,701.
Frederickswille, in Promagicania, a post-office of Berks co.

Berks co

Berks co.

Fred'erick town, a sea-port town of Nova Scotia, in the county of Cumberland, and at the head of Wallace Bay, about 82 m. N. of Halifax. Now called Wallace Bay, about 82 m. N. of Halifax. Now called Wallace. Fred'erick town, in Kestucky, a post-village of Washington co., abt. 8 m. N.W. of Springfield.

Fred'erick town, in Kissouri, a post-village, cap. of Madison co., abt. 168 m. S.E. of Jofferson city. Here, Oct. 1861, an engagement took place between the Nationals under Col. Plummer, and the Confederates under Gen. Thomason, in which the latter were defeated and

tionals under Col. Plummer, and the confederates under Gen. Thomson, in which the latter were defeated, and sustained heavy loss.

Fred'ericktown, in Obio, a village of Columbiana co., about 170 m. N.E. of Columbias.

—A post-village of Knox co., on Vernon River, about 50 m. N.E. of Columbias.

Fredo'nia, in Indiana, a post-village of Crawford co. Fredonia, in Iowa, a post-village of Louisa co., at the junction of the Iowa and Cedar rivers.

redomia, in Kentucky, a post-village of Caldwell co. about 12 m. W. of Princeton.

Fredonia, in Michigan, a township of Calhoun coun-

A post-village of Washtenaw co.

—A post-vinage of Wasnisaw co.

Fredomia, in Musouri, a pust-office of Benton co.

Fredomia, in New York, a post-village of Chautauqua co., 4t m. S.W. of Bunalo. Pop. (1807) about 3,650.

Fredomia, in Oho, a post-village of Licking co., about 10 m. N.W. of Newark.

A village of Noble co.

—A village of Montgomery co., about 38 m. N.W. of Nashville.

Fredonia, in Texas, a village of Rusk co., on the Sabine River, about 20 m. N. of Henderson.

Fredonia, in Wisconsin, a post-township of Ozaukee

co.
Free, a. [A. S. fri, frio, free; Ger. frei.] Being at liberty; not being under necessity or restraint, physical or moral; not enslaved; not being in a state of vassalage or dependence.—Subject only to fixed laws, made by consent; instituted by a free people; not arbitrary or depotic; as, a free government.—Not imprisoned, confined, or under arrest; unconstrained; unrestrained; as, to set a prisoner free.—Permitted; allowed.

"Why sir, I pray, are not the streets free?"—Saks.

Open; not appropriated; not obstructed. — Licentious; unrestrained; as, free conversation. — Open; candid; frank; ingenuous; unreserved.

Will you be free and candid to your friend? "-Ote

-Liberal in expenses; generous; munificent; bountiful. ercharging your free purses with large fines." Guiltless; innocent; clear; exempt.

"My hands are guilty, but my heart is free." — Dryd

Not encumbered with; disunited from anything else; Not encumbered with: disunited from anything else-as, free carbonic soid gas.—Open to all; without re-striction, or without expense, as a school or library.— Invested with franchises; enjoying certain immunities; possessing without vassalage or slavish conditions.

"Art thou of Bethlem's noble college free?" - Dryden.

"Art thos of Betalem's noble college free?"— Dryden.
(Naut.) Fair or favorable;—said of the wind.
Free, v. a. [A. S. freegan.] To set free; to remove, as any incumbrance or obstruction; to disengage from; to rid; to strip; to clear; to liberate; to set at liberty; to rescue or release from slavery, captivity, or confinement. "Our land is from the rage of tigers freed." - Dryden.

-To loose; to disentangle; to disengage; to exempt; to release from obligation or duty.

"For he that is dead, is freed from sin." - Rom. vi. 7.

Free'-a'gency, n. The condition or state of acting freely; without necessity or constraint of the will.

Free-bench, n. (Eng. Law.) A widow's dower in a

copyhold. Free booter, n. [Ger. free, and beute, plunder. One who roves lawlessly in quest of booty or plunder a robber; a pillager; a plunderer.—See BUCCANEER

a ronder; Filibuster. ree'bootery, s. The act or practice of one who roves lawlessly in quest of plunder; also, the plunder

thereby acquired.

thereby acquired.

Free'booting, n. Robbery; plunder; pillage.

—a. Robbing; plundering; acting the freebooter.

Free'born, a. Inheriting liberty; not born in slavery.

Free'born, in Minnesota, a. S. co., bordering on Iowa;

area, about 720 sq. m. Rivers. Shell Book River, and
the head-waters of the Red Cedar River. Surface, diversified; soil, fertile. Cup. Albert Lea. Pop. (1895) 21.138.

—A post-village of Freeborn co., on a small lake of the
same name, about 40 m. S.S.E. of Maukato.

A township of Freeborn co.

same name, about 40 m. S.S.E. of Mankato.

—A township of Freeborn co.

Free'born, in North Dakota, a post-office of Eddy co.

Free'born, in North Dakota, a post-office of Eddy co.

Free'burg, in Georgia, a village of Gordon co., on
the Oostenatua River, about 170 m. N.W. of Milledgeville.

Free'burg, in Hinnesta, a post-office of St. Clair co.

Freeburg, in Ohio, a post-office of Stark co.,
about 17 m. S. by W. of La Crosse, Wisconsin.

Freeburg, in Ohio, a post-office of Stark co.,
Freeburg, in Chansylvania, a post-vill. of Snyder co.

Free Church, n. (Eccl. Hitt.) See PRESETTRIANISM,
Free City. (Hist.) The name given to certain German cities which form in themselves independent states,
and were members of the Germanic Confederation. They
are Hamburg, Bromen, Lübeck, and, formerly, Frankforton-the-Main.

on-the-Main Com'panies. (Hist.) Bands of discharge diers, who ravaged France after the conclusion of the beace of Bretigny, May 8, 1360. Bertrand du Guesclin, born in Brittany in 1314, put himself at their head, and led them against Peter the Cruci, king of Castile, whom led them against Peter the Cruel, king of Castile, whom he dethroned in 1365, placing Henry, count of Trastamara, on the throne. Edward the Black Prince recalled the free companies, defeated Henry at Najara, April 3, 1367, and restored Peter the Cruel, who was, however, defeated March 14, 1369, and killed by Henry of Trastamara, March 23.

Freed'mam, n.; pl. Freedmen. A man who has been a slave, and is manumitted or emancipated.

Freed'mam, n.; pl. Streadmen. A state of exemption from the power or control of another: liberty; independence; exemption from slavery, servitude, confinement, control, or restraint.

or restraint. m, first delight of human kind." — Dr "O freedo

-Particular privileges; franchise; immunity.
"Upon your charter and the city's freedom."-

Exemption from fate, necessity, or any other constraint, in consequence of predetermination, or otherwise.

" A higher and perfector degree of Avecdors." - 8

-Rase or facility in doing anything; as, sketched with freedom. - Frankness; as, to speak with freedom. - Boldness; license. - Improper familiarity; violation of the rules of decorum.

Free'dom, in Illinois, a flourishing township of Carroll

co,

—A post-township of La Salle co.

Freedom, in Indiana, a post-village of Owen co., on
White River, abt, 65 m. S.W. of Indianapolia.

Freedom, in Kasaca, a post-office of Butler co.

—A township of Republic county.

—A township of Republic county.

Freedom, in Kestacky, a post-office of Barren co.

Freedom, in Kestacky, a post-office of Barren co.

Freedom, in Maine, a post-office and township of
Waldo county, about 28 m. N.E. of the city of Augusta.

Pop. (1897) 540.

Freedom, in Maryland, a post-office of Carroll co.

Freedom, in Michigan, a village of St. Joseph co., about
96 m. W. of Adrian.

—A township of Washtenaw co.

Freedom, in Missouri, a village and township of Lafayette co.

fayette co.

Freedom, in New Hampshire, a post-town and town-ship of Carroll county, about 45 miles N.N.E. of Conship of Carroll county, about 45 miles N.N.E. of Concord. Pop. (1897) 682.

\*recedom, in New York, a post-town of Cattarangus co., Pop. (1897) about 1,350.

\*recedom, in Okio, a flourishing township of Henry co.

-A post-township of Portage co.

-A village of Stark co., about 136 m. N.E. of Columbus.

-A township of Wood co.

\*recedom, in Oregon, a village of Lane co., about 16 m.

Precidents in Origina, a township of Adams co.

A post-borough of Beaver co., on the Ohio river, about 23 m. N.W. of Pittsburg. Pop. (1897) about 870.

—A township of Blair co.

Freedom, in Wisconsia, a township of Outagamie co.

—A township of Sauk co.

Freedom, in Wyoming, a post-office of Uinta co.

Freedom Center, in Illinois, a former post-office of

La Salle co.

La Salle co.

Freedom Milla, in Ohio, a village of Henry co.

Freedom Plains, in New York, a post-village of
Dutchess co., abt. 80 m. S. of Albany.

Freedom Station, in Ohio, a P. O. of Portage co.

Free hearted, a. Frank; unreserved; liberal; char-

itable; generous, Free heartedly, adv. Generously; liberally; frankly Free heartedness, n. Gamerosity; good-nature openness of disposition.

openness of disposition. "rec'hold, n. [A. S.; Lat. liberum tenementum, frank tenement.] (Eng. Law.) An estate in lands or other real property, held either in fee, in tuil, or for life, independently of the will of the feudal lord, and used in opposition to copyhold lands, held during the will of the

position to copyhold lands, held during the will of the superior, or for a term of years.

Freehold, in New Jerry, a flourishing post-village and township, cap, of Monmouth Court-House, q. r.

Freehold, in New York, a post-village of Greene co., about 26 in S.S.W. of Albany.

Freehold, in Irangleania, a post-township of Warren co. abt. 13 in N.W. of Warren.

Free holder, n. One who has a freehold.

Free land, in Colondo, a post-office of Clear creek co.

Free land, in Colondo, a post-office of Clear creek co.

Free land, in Colorado, a post-office of Clear creek co. Freeland, in Ious, a village of Lucas co. Freeland, in Maryland, a post-office of Baltimore co. Freeland, in Michigon, a post-office of Saginaw co. Freeland, in Pennsylvania, a post-borough of Luserne co. Pop. (1897) about 2,000. Free landwille, in Indiana, a P. O. of Knox co. Free-liver, n. One who gives great license or indugence to his appetites.

Free-living, n. Unstituted gratification of the appetites.

tites.

Free ly, adv. [A.S. freilies.] Independently; volunta-rily; readily; liberally; generously; bountfully; gra-tuitously; unreservedly.

tuitously; unreservedly. "FREEMEN. A term used in contra-distinction to a slave, denoting one who is born or made free, and who enjoys certain privileges which are denied to the other. —The title is also given to one admitted to the freedom of a corporate town, or of any other corporate body.

rate body.

Free'mam, in Maine, a post-township of Franklin co, about 45 m. N.W. of Augusta.

Freemam, in Missouri, a post-town of Cass co.

Freemam, in Missouri, a post-town of Cass co.

Freemam, in Missouri, a post-town of Cass co.

Freemam, in Missouri, a post-township of Crawford co.

Free'mams, in Missouri, a post-township of Crawford co.

Free'mamsburg, in Penssylvania, a post-torough of Northampton co., on the Lehigh river, about 10 m. from its mouth. Pop. (1887) about 720.

Free'mam's Landing, in West Virginia, a village of Hanock co.

Free'man's Landing, in West Virginia, a village of Hanock co.
Freemansville, in Georgia, a post-office of Milton co.
Free'manton, in Illinois, a village of Efingham co., about 5 m. W. of Ewington.
Free'martin, n. A female twin calf, whose mate is a male; generally an hermaphrodite and therefore barren, but in some cases capable of breeding.
Free'mason, n. One initiated into freemasonry.
Free'mason, n. [Fr. magon, mason.] This is a name which is applied to a secret and wide-spread association, who term themselves Free and Accepted Manoa. Societies of Freemasons exist in all parts of the civilized world, and their members are of every religion and con-

dition of life. Every candidate, before his initiation, comes under a solemu engagement never to divulge the mysteries of the order, nor to communicate to the unitiated the secrets with which he may be intrusted, and the proceedings and plans in which the fraternity may be engaged. After the candidate has undergrous the necessary ceremonies, and received the usual instructions, appropriate words, and significant signs are simparted to him, that he may be enabled to distinguish his brethren of the order from the uninitiated, and to convince others that he is suitled to the privileges of his brethren of the order from the uninitiated, and to convince others that he is entitled to the privileges of a brother, should he be visited by distress or by want in a distant land. After a due interval of probation, if the newly-admitted member be found qualified for a higher degree, he is promoted, till he has received that Masonic knowledge which enables him to hold the highest offices of trust to which the fraternity can raise its members. At regular and appointed seasons, convival meetings of the fraternity are held in lodges, appointed for the purpose: and all distinctions of rank are laid aside, all differences in religious and political matters forgotten, and peace and harmony generally prematters forgotten, and peace and harmony generally preare laid aside, all differences in religious and political matters forgotten, and peace and harmony generally prevail. Every one strives to give happiness to his brother, and men seem to recollect for once that they are sprung from one common origin, and are possessed of the same nature. According to its own peculiar language, Masonry is founded on "the practice of social and moral virtue." Its character is charity in the most extended sense, and "brotherly love, relief, and truth" are inculcated in it. Like every other society of any duration, it has been subject to the influences of human frailties; and while it has been the means of effecting much good, it has doubtless at times also been productive of much evil. Recently much has been productive for much evil. Recently much has been written both for and against Freemasonry, its ritual, benefits, and tendency: evil. Recently nuch has been written both for and against Freemasonry, its ritual, benefits, and tendency; while books have even appeared professing to reveal all the secrets of the order; but most Masons maintain that the true secret of Masonry has never yet been divulged, and there are even many Masonic writers, defenders of the society, who yet call its secret signs and rites accidental and unimportant. No one, we believe, even among intelligent Masons themselves, credits the creat articipate which some of their suthers claim for great antiquity which some of their authors claim for it. According to some, it is as old as the creation, while others only carry it back to the building of the Tower it. According to some, it is as old as the creation, while others only carry it back to the building of the Tower of Babel, and some are content with tracing it no further back than the building of Solomon's Temple. It is asserted that the institution has been continued down, in uninterrupted succession, from that very remote period to the present day, through all the changes of governments, religion, civilization, and knowledge. It is indeed not improbable, that, after building rose to be a separate art, and to demand a certain amount of skill and training, those who were members of the order should seek to impart a mystery to their profession, and adopt certain initiatory proceedings, before communicating their knowledge to others. The later Eleusinian and other mysteries, to which others trace its origin, may have also imparted to it something of their character; but there is nothing in history, or in the character of Masonry, to warrant us in giving it so high an origin. Without, therefore, attempting to unravel its early history, we may state, generally, that the desire for magnificent churches and monasteries by the ltoman Catholic priests led to great encouragement being given to the artificers of such works. The pontiffs of Rome, and the other potentates of Europe, conferred on the featurity of means the most impression of the conferred on the featurity of means the most impression of the conferred on the featurity of means the most impression. being given to the artificers of such works. The pontiffs of Rome, and the other potentates of Europe, conferred on the fraternity of masons the most important privileges, and allowed them to be governed by laws, customs, and ceremonies peculiar to themselves. Such encouragement must have been productive of the most beneficial results to the fraternity. The association was composed of men of all nations,—of Italian, Greek, French, German, English, and Flemish artists, who were denominated Free Masons, and who, ranging from one country to another, erected those elegant churches and cathedrals which still excite admiration. Their government was remarkably regular, and the members lived in a camp of hute reared beside the building which they were employed in erecting. A surveyor, or master, presided over and directed the whole, and every tenth man was called a tourden, and had the oversight of the other nine. The most ancient lodge of Freemasons in England is over and directed the wrote, and every tenin man was called a warden, and had the oversight of the other nine. The most ancient lodge of Freemasons in England is that of York, founded in 926, under the patronage of Edwin, brother of King Athelstan, who obtained for it a charter from the king, and became himself grandmaster. The constitution of this lodge, which is still preserved at York, gives a history of Masonry from the earliest times, beginning with Adam, and comprising quotations from some rabbinical tales, respecting the building of the Tower of Babet and the Temple of Solomon, limited, however, to the information contained in the Bible. It then passes over to the Greeks and Romans, mentioning particularly Pythagoras, Eaclid, and Vitruvius. Then we are told that St. Albanus, an honorable Roman knight, patronized the art about A. D. 300, settled the fundamental institutions of the Masons, procured them employment, wages, and a charter from the emperor Carausius, according to which they might form a society in Britain under the government of archithe emperor Carausius, according to which they might form a society in Britain under the government of architects. The devastation of the country, and the destruction of the edifices by the northern tribes, and the Angles and Saxons, is related; and how the pions Athelstan had resolved to restore the ancient and venerable society. By virtue of this charter, all the Masons in the kingdom were assembled, and they established a general, or grand lodge, for their future government. Under the patronage and jurisdiction of this lodge, the fraternity very considerably increased. The principles of F be came gradually diffused throughout England and Scotland, and continued to flourish throughout those king-

Digitized by GOOGIG

doms for several centuries after the institution had ceased on the continent of Europe, where the jealousy entertained by the Church of its principles had brought about its gradual suppression. Among those who held the office of Grand Master in England may be menioned Henry VII., Cardinal Wolsey, Inigo Jones (the celebrated architect), and Sir Christopher Wren. In 1117 the society ceased all connection with building, and became, purely, a brotherhood united for purposes of mutual aid and benevolence. At the present time the order in Great Britain consists of shout 1,000 lodges, possessed of great wealth, with numerous schools and charitable funds, and numbering among its members many of the most distinguished persons in the kingdom. The first lodge in France instituted after the 1-nglish system, was established in 1725; and the first in Germany was founded at Hamburg in 1730. The first lodge of Masons in the U. States was established at Boston in 1733; an example followed the year alterward by Philadelphia, whose lodge elected Benj. Franklin their Worshipful Master. The other colonies specilly initiated themselves into the order, and in 1752 Gen. Washington became a member of the new lodge inaugurated in Virginia. After the establishment of this country's independence, grand lodges came to be instituted on the sme national basis as possessed by those of the Old World, and the order developed itself into a vigorous and mature growth. At the present day, Masonry—despite a fullie attempt made in 1829 for its extinction— World, and the order developed itself into a vigorous and matter growth. At the present day, Masonry—despite a futile attempt made in 1829 for its extinction—presents a greater numerical strength in the U. States than in any other country in the world. In 1882, not than in any other country in the world. In 1882, not fewer than 50 grand lodges and 5,000 subordinate lodges were in flourishing existence throughout the Union, forming an aggregate of about 400,000 members.—The officers of a lodge in the U. States are 9 in number; viz., worshipful muster, senior warden, junior worden, treasure, sectury, senior deacm, junior deacm, titer, and chaplum, besides two stewards. Of the officers, the master, the wardens, and the tiler are essential to every lodge. The tiler acts as janitor and keeps the door aguest intruders. The officers are elected annually by allot. Each State of the Union possesses a grand spanst intruders. The officers are elected annually by ballot. Each State of the Union possesses a grand lodge consisting of representatives elected to it by the subordinate lodges, over which it exercises a certain jurisdiction. The officers of each grand lodge bear the respective designations of grand and deputy grand masters, grand wordens, grand treasurer, grand secretary, grand chapters, grand and pursuant, grand ascord-beaver, grand stewards, and grand tier. A still higher degree of the order, entitled royal arch chapters, confers upon the members thereof the distinctive appellation of royal arch masons.

Free mained ed. a. Not verplexed in mind.

ree minded, a. Not perplexed in mind.
reemess, a. State or quality of being unconstrained, unconfined, unincumbered, or unobstructed; openness; Free minded.

unreservedness: frankness; ingennousness; candor; liberality; generosity.

Prec Pert, n. (Com.) A port or harbor free to ships of all nations to enter and load or unload, on payment of an antonia to enter and road or union, on payment of ancherate duties. They also form depots where goods may be deposited without payment of any duty, and afterwards either re-exported on payment of mere non-inal duty, or admitted for consumption on paying the

Free port, in California, a post-office of Sacramento co.

Pree port, in California, a post-ome of Sacramento co.; on the Pekatonica river, about 120 m. W. N. W. of Chicago. Pop. (1897) about 15,000.

Pree port, in Indiana, a village of Jackson co., about 2 miles S.W. of Columbus.—A village of Shelby co., on Blue river, about 9 miles N. by E. of Shelbyville.

Bus river, about 9 miles N. by E. of Shellyville.

Free'port, in Iosac, a post-village of Winneshie Co., on the Upper Chio river, about 3 miles E. of Decorah.

Free'port, in Maine, a post-town of Cumberland co., on Casco Bay about 17 miles N.E. of Portland. Pop. (1871) about 2,610.

Free'port, in Minnesota, a post-office of Stearns co.

Free'port, in New York, a post-office of Queens co.

Free'port, in Ohio, a post-office of Queens co.

Free'port, in Ohio, a post-office of Columbus.

A village of Wood co., about 27 miles B. by E. of Toledo, las P.O. name is PRAIRIE DEPOT.

Free'port, in Pransylconia, a post-borough of Armstrong co., about 30 m. N.E. of Pittsburg. Pop. 1,720.

A village of Blair co.

Free'port, in Washington, a village, formerly the cap. of Cowlitz co.

of Cowlity co Tree part, in West Virginia, a post-office of Wirt co.

Free hade, in Virginia, a post-office of Middlees co.

Free school, m. A school in which the pupils are

free from the payment of sees; a school open to admit

pupils without restriction. Prec'soller, a. Accustomed to speak without re-brace and a Accustomed to speak without re-polition for the United States, opposed to the extension of slavery. See Fark-soil Parry. Prec'spokem, a. Accustomed to speak without re-mera or preciping.

President, a. Accustomed to speak without re-terre restraint.

Free States, in South Carolina, a P. O. of Marion co.

Free States, n. pl. The name formerly applied to the States of the American Union in which slavery did not exist. The term is now obsolete.

Free stone, n. [A. S. dins, stone] (Duild.) The name generally given to any soft stone that can be readily man and worked with a multer and chisel.

Prec'stome, in Ohio, a post-office of Scioto co.
Prec'stome, in Texas, a N.E. central co.; area, about
370 sq. miles. Ricera. Trinity river, and Pecan creek.
Surface, uneven; soil, fertile. Cap. Fairfield. Pop. (1890)

Free'-stuff, n. Timber without knots.

FREE

tions; a free interchange of commodities.

Free U'nlom, in Virginia, a P. O. of Albemarle co.

Free'ville, in New York, a post-office of Tompkins co.

Free'ville, in New York, a post-office of Tompkins co.

Free'-will, in. (Ethics.) Free will, freedom and necessity, liberty and necessity, are terms employed to denote one of the most difficult questions in the whole field of the mental sciences;—the power of a man over the determination of his own will. "If," asys. Reid, "in any action he had power to will what he did, or not to will it, in that action he is free. But if in every voluntary action the determination of his will be the necessary consequence of something involuntary in the state of his mind, or of something in his external circumstances, he is not free; he has not what I call the liberty of a moral agent, but is subject to necessity."

Freedom has commonly been distinguished into free-Freedom has commonly been distinguished into free dom from coercion, and freedom from necessity. Free dom from coercion implies on the one hand, the absence of all impediment or restraint, and on the other, the absence of all compulsion or violence. Thus, if we are prevented from doing what is in our power when we desire or will to do it, as if we were compelled to do it when we desire and will not to do it, we are not free from coercion. Freedom from necessity, called also liberty of election, implies freedom from anything inviacibly determining a moral agent. This freedom from necessity, however, does not mean that the agent has no motive or no more inclination towards one course has no motive or no more inclination towards one course of action than another; for he may have motives prompting him more urgently to act in one direction rather than in another, and still have liberty of election, if he has the power of determining in favor of another course of action. The universal language and practice of mankind is founded upon a belief in a kind of free-will. To choose, to deliberate, to determine, are expressions in every man's mouth; and the whole of our penal cyde is founded upon the conviction that of our penal code is founded upon the conviction that men have the power of doing or abstalning from certain acts. But if we examine the matter more closely, and look at the particular acts of one's life, we shall find that this freedom of choice does not actually exist to the extent that we might at first sight be inclined to suppose. We find that if we know the circumstances to the extent that we might at first sight be inclined to suppose. We find that if we know the circumstances and character of an individual, we can calculate pretty correctly how he will act in a given case. A man's habits, his education, his character, all go in some measure to determine his acting in a given case in a particular way. Hence, therefore, every act of the will, in some degree at least, depends upon something going before, or in the circumstances of the individual; and in so far it is not absolutely free. "What," says Coleridge, "determines the man to a good and worthy act, we will say, or a virtuous course of conduct? The intelligent will or the self-determining power? True, in part, it is; and the will is pre-eminently the spiritual constituent in our being. But will any man admit that his own will is the only and sufficient determinant of all he is and of all he does? Is nothing to be attributed to the harmony of the system to which it belongs, and to the pre-established fitness of the objects and agents, known and unknown, that surround him, as acting on the will, though doubtless with it likewise?" The whole question, however, is involved in difficulties which defv our limited faculties to solve. "How the acting on the will, though doubtless with it likewise?" The whole question, however, is involved in difficulties which defy our limited faculties to solve. "How the will can possibly be free," says Sir W. Hamilton, "must remain to us, under the present limitation of our faculties, wholly incomprehensible." "The assertion of absolute necessity is virtually the negation of a moral universe,—in a "word, atheism." "It would have been better," he said, in speaking of the view of the question as taken by the Scottish school of philosophers, "to show articulately that liberty and necessity are both incomprehensible, and both levond the limited for the view of the present of the present the said, in speaking of the view of the question as taken by the Scottish school of philosophers, "to show articulately that liberty and necessity phers, "to show articulately that liberty and necessity are both incomprehensible, and both leyond the limits of legitimate thought; but that, though the free agency of man cannot be speculatively proved, so neither can it be speculatively disproved, while we may claim for it, as a fact of real actuality, though of inconceivable possibility, the testimony of consciousness,—that we are morally free, as we are morally accountable for our actions."

actions."

Free'-woman, n. A woman not enslaved.—1 Mac. ii.11.

Freezable, a. That may be frozen.

Freeze, r. n. [A.S frysun; Du. vrezen; Lat. frigesco, to grow cold, from frigen, to be stiff with cold; Gr. rhigeo, to shudder with cold, from rhigeo, freat, cold.]

To be congressed by cold; to be changed from a liquid to a solid state, by the abstraction of heat; to be hardened into ice, or a like solid body; to be of that degree of

cold at which water congeals; to chill; to stagnate, as the blood; to be chilled; to shiver or atifien with cold.

—e. a. To congeal; to harden into ice; to change from a fluid to a solid form by cold or abstraction of heat; to kill by cold; to chill; to give the sensation of cold and shivering to.—To become cold and constrained in manner; as, a freezing look.

Freezing, n. (Chem.) The solidification or congelation of water or atmospheric vapor by cold. Water begins to freeze when the temperature of the atmosphere is \$20^{\circ}\$ fair, at which point ice begins to appear, and continues to be formed, unless some circumstance, such as the disturbance of the water, interferes. As the cold increases, other liquids, which are able to resist the temperature at which water congesie, begin to freeze, and pass into the solid form. During spring and the early months of summer, much harm is done to vegetation by frost; and during severe frosts almost all vegetables fall into a state of decay, and even a moderate frost is able to destroy tender plants. When there has been much rain, and when the plants are saturated with moisture, the occurrence of a frost is very disastrous; for as the water contained in the leaves begins to freeze, it expands, rupturing the vegetable fibres and destroying the plant. Fruits are destroyed by frost in a similar manner. When the morning dew freeze, it is called hoar-frost, or white-frost, and appears generally in apring and autumn. As the air begins to be warmed by the rising sun, the evaporation from the leaves of grass, plants, and shruba, is accelerated, and the cold increased; hence the moisture which was only dew before the dawn, is often converted into hoar-frost abortly after surrise. The disastrous effects of frost upon vegetation can only be averted in a very limited manner. That the dawn, is often converted into host-frost shortly after sunrise. The disastrous effects of frost upon vegetation can only be averted in a very limited manner. That which will protect a plant from dew will protect it from frost; hence a covering of network or thin gauze will protect tender plants or the blossoms of wall-fruit. The most efficient mode, however, is to shield the plant from the clear sky, and thus prevent the radiation which must otherwise take place.

most efficient mode, however, is to shield the plant from the clear sky, and thus prevent the radiation which must otherwise take place.

Freez'ing, p. a. Congealing with cold.—Chilling; cold.

Freez'ing, p. a. Congealing with cold in the receiver of an air pump a shallow ressel containing highly concentrated sulphuric acid, above which he placed another vessel containing water. On the abstraction of the air the water evaporated rapidly, its vapor being immediately absorbed by the sulphuric acid. The alstraction of heat from the water by the vapor caused a rapid congelation. The same effect can be produced by the evaporation of sulphuric etter in a receiver containing water, the ether abstracting heat from the water and causing it to freeze. In the ice-making machines now employed, the refrigerating effect is produced by the employment of some volatile liquid such as ether, ammonia, or sulphur dioxide, whose evaporation is accompanied by a withdrawal of heat from surrounding substances. Anhydrous ammonia, a liquid which at ordinary pressure boils at —270 F., is usually employed. In usual practice, the ammonia size placed in a coil surrounding a tank containing brine, from which it extracts heat by its evaporation, while the chilled brine, circulating around the vessels containing the water to be frozen, robs this water of its heat and converts it to ice. In other cases the intermediate use of brine is not adopted, the ammonia aistracting heat directly from the fresh water. The ammonia is kept in an enclosed coil or chamber, so that the same material may be reemployed, by being again liquefied. The ammonia rapor is at low pressure; to fiquefy it, it must be subjected to a high pressure. This pressure is produced by engine power, or the v are introduced into a tank of brine, chilled by ammonia vapor, the result being cakes of ice of 300 lts. or less in weight. In brine of 16° to 18° temperature it requires weight. In brine of 16° to 18° temperature it requires about 60 hours to freeze a cake of ice. In the plate method, hollow plates of 10 by 14 feet in dimensions are employed, the cooling fluid circulating in the hollow interior of the plates, the water bathing their exterior. The ice gradually forms on the surfaces of the plates, from 0.0° to 14 days below mounted to readers be of a from 9 to 14 days being required to produce toe of a thickness of about 14 inches. In the latter system ordinary water is employed, the ice being clear. In the can system, on the contrary, ordinary water yields ice of opaque appearance, and usually of brownish color, and it is necessary to distil the water to obtain transparent. it is necessary to district the water to obtain transparent fice. This necessity has its advantage to consumers, in giving them assurance of ice of perfect purity. The distilled water is made by condensing the exhaust steam from the operating engines and ive steam from the boilers. The exhaust steam is apt to contain oil, to get rid of which the condensed water is violently reboiled by means of live steam in an open tank, then cooled and run into an oil separator. It is then ordinarily filtered through charcoal. In cakes of ice a thin layer of air through charcoal. In caree of ice a thin layer of air bubbles usually gathers near the center, producing opaqueness at that point, but the cake is otherwise transparent except a white area at the top where the water expands over the ice first formed. If all the oil has not been removed, its presence will be indicated by

a slight tar-like odor from the center of the cake when freshly broken open, this odor being a sure test of its presence even when it cannot be detected by the taste. In a more recent form of ice machine the water is frozen by its own evaporation. Water is injected into a chamber in which a high vacuum is maintained, a portion of it evaporating and the remainder freezing. The vacuum is maintained by engine power, or by the use of strong sulphuric acid, which absorbs the vapor as it rises. The acid can be repeatedly used, the absorbed water being driven off by heat. The ice produced in this manner is white and hard. For the produced in this manner is white and hard. For the producion of chilled air for cold storage and other purposes, see Reprincementum Machines. Condensations of Gaess.—On the principle above stated, of chilling by evaporation combined with high atmospheric pressures, remarkable effects have been produced of late years, in the liquefaction and in some cases the freezing of air, oxygen, introgen, &c.; while by continued evaporations under pressure, exceedingly low temperatures have been process of solution, exercise a refrigerating effect, and process of solution, exercise a refrigerating effect, and process of solution, exercise a refrigerating effect, and process of solution, exercise a refrigerating the entering that is a condition in which, while it exists in the atoms

disappearing heat enters into what is known as the latent state, a condition in which, while it exists in the atoms or molecules of the substance, it produces no effect on the state, a condition in which, while it exists in the atoms or molecules of the substance, it produces no effect on the thermometer, it being in some way employed internally. If water at 79° C. be mixed with snow or pounded loe at 0° C, the loe will be converted into water, but the temperature will remain at 0°, the 79° heat of the water being rendered latent during the melting. If 4 os. of nitre and 4 oz. of sal-ammoniac be mixed and thrown into water at 60° F., the temperature of the water will fall to 10°; and a mixture of equal parts of water, and crystallized nitrate of ammonia and carbonate of sods will manifest a reduction of temperature from 50° to -7°. The most effective salt in producing this effect is sulphocyanide of ammonium, which, when dissolved in equal weight of hot water at 204.8° F. (96° C) covered the outside of the vessel immediately with hoar-frost, and the temperature was found to be 28° F., about 176° of heat having vanished. Still greater effects are produced if acids be used instead of water. A mixture of sulphate of soda with dilute nitric acid will cause a reduction from 50° F. to -12°, and of sulphate of soda and nitrate of ammonia with the same, from 50° to -14°. A mixture of ammonia with the same, from 50° to -14°. A nixture of a parts sulphate of soda with 5 parts hydrochloric acid is capable of freezing 5 parts of water; and if pounded toe be mixed with the salt still greater effects are produced. A mixture of pounded loe and common salt are employed in the freezing of ice-cream.

duced. A mixture of pounded ice and common sait are employed in the freezing of ice-cream.

Frieberg (ribergy), a mining-town of Saxony, 19 miles from Dresden. It is the capital of the mining district of Saxony, and contains a mining academy founded in 1765, with 13 professors, fine scientific collec-

miles from Dreeden. It is the capital of the mining district of Saxony, and contains a mining academy founded in 1765, with 13 professors, fine scientific collections, among which is the celebrated collection of precious stones amassed by Werner, and a large library. It is an ancient imperial city, and is still surrounded by the old walls and ditch. The town owes its origin to the discovery of silver mines in the 12th century. In the 17th century it had great wealth and a pop. of 40,000. It is said to have about 150 mines of silver, copper, lead, and cobalt in its vicinity; but their product has fallen off. Here (Oct. 29, 1762), Prince Henry, of Prussia defeated the Austrian and Saxon armies. Pop. (1885) 27,565.

Frei/Durg, or Fribourg, a canton of Switzerland, between the canton of Berne and the Pays de Vaud. Area, 564 sq. miles. Bieers. The Broic and the Sarine. The principal lake is Morat. F. is fluely diversified with every kind of scenery, comprising wooded or grassy fulls. Alpine mountains, and long and beautiful verdant valleys. It lies principally in the basin of the Aar, and in the S. and E. is traversed by branches of the Bernese Alps, in which are Mt. Moleson, Dent de Folligrau, and Dent de Breulaire, respectively 6,580, 7,710, and 7,720 feet above the level of the sea. Cattle-rearing and dairy-husbandry are extensively followed. The annual product of cheese is about 40,000 cwt. including about 25,000 cwt. of the famous Gruyère cheese. Peat and timber are important products. Of the population, seven-eights are Roman Catholics: the Protestants, about 8,400, reside principally in the district of Morat. Pop. (1887) about 112,500.—Its cap, of the same name, occupies a singularly wild and romantic situation on the Sarine, 16 miles from Berne. The best buildings are the Jesuits' church and the cathedral of St. Nicholas; the latter has a spire 376 feet in height, and an organ of 7,800 pipes, one of the finest on the continent of Europe. There are four bridges across the Sarine, one of which is a suspension

chain for the use of a ship to transport goods; now applied to goods transported by railroad or otherwise.—The word freight is also sometimes used as synonymous with corgo. When the entire vessel? se engaged for the transport of goods there is usually an instrument executed known as a charter-party, in which the terms of the agreement and amount of freight are set forth. If, however, merely a part of the ship is engaged, or a certain amount of goods to be conveyed, there is usually a bill of lading made out where no formal agreement is entered into, the amount of freight is regulated by the custom or uses. amount of freight is regulated by the custom or usage of trade. The freight is most commonly determined for the whole voyage without respect to time; but some-

times it is made to depend upon time. In the former case it is either fixed at a certain sum for the whole cargo, or at so much per ton, barrel, bulk, or other cargo, or at so much per ton, barrel, bulk, or other weight or measure, or so much per cent on the value of the cargo. The time and manner of paying the freight are frequently regulated by express stipulations in the charter-party or other written contract. The master is entitled to detain the goods until the freight has been paid; but the master cannot retain the cargo on loard till such payment, as the merchant would in that case have no opportunity of examining the condition of the goods. No right of lien for freight exists unless the freight be earned; but if a freighter or a stranger prevent the freight from becoming due, the owner or master has a remedy by action of damages. When goods are deteriorated during a voyage by fault of the master or mariners, the owner is entitled to compensation; but if from natural causes or perils of the sea, the owner must bear the loss and pay the freight. The merchant, however, cannot set off his claim for damage against the amount of the freight, which must first be paid; the merchant may then substantiate his claim to sight or measure, or so much per cent, on the value of the amount of the freight, which must first be paid; and the merchant may then substantiste his claim to compensation for the damage. If a portion of the cargo be thrown overboard for the necessary preservation of the ship, and the rest reach its destination, the owner is bound to answer to the merchant, by way of general average, for the value of that which was lost, as the freight is to be paid to the owner. Legally, no freight is due until the voyage is completed, which, however, may be overruled by express stipulation. If a merchant covenant to freight a whole or a certain portion of a ship, he is bound to pay the sum stipulated for, though his goods do not occupy the entire space. Where the freight is to be paid for the voyage, the owner takes upon himself the risk of its being long or short; whereby the risk as to time falls upon the merchant. As regards living animals, if the ship be freighted for transporting them at so much a head, freight is only due for such as are delivered alive; but if for lading them, it is due for all that were put on board. Where there is no express agreethat were put on board. Where there is no express agreement, the law holds that freight is due for the dead as well as the living. — See Average; Jerrison, &c.

Freight, v. a. To load with goods, as a ship or vessel of any kind, for transporting them from one place to

Freight'ere, s. Money paid for freight.
Freight'ere, s. One who loads a ship, or one who charters and loads a ship.
Freight'ing, p. a. Loading or carrying, as a ship or

vessel.

Freight less, a. Without freight.

Freij ligrath, Ferdinan, a. German poet, B. at Detmold, 1810. His earlier years of manhood were passed in mercantile pursuita, until, in 1838, a volume of Poems from his pen placed him in the front rank of the poets of the "Fatherland." In 1842 the king of Prussia conferred upon him a pension, which, two years afterwards, his democratic opinions impelled him to resign, publishing at the agent lines a volume of political reserve which ferred upon him a pension, which, two years afterwards, his democratic opinions impelled him to resign, publishing at the same time a volume of political poems which brought upon him a government prosecution, and compelled him to fiee the country. In 1846, P. was engaged in the capacity of a merchant's clerk in London, which position he quitted in 1848 to take part in the revolution then going on in Germany, and in the same year suffered imprisonment for publishing a poem entitled Die Tuden and it Lebenden ("The Dead to the Living"). After two months' confinement, he was tried before a jury and acquitted,—this being the first instance in Prussia of a political "crime" being tried by jury. After undergoing still further persecution, he again retired to England and obtained mercantile employment. Besides the works above noted, Fredigrath is the anthor of a collection of English poems under the title of The Rose, Thistle, and Shumrock (1852), and of Poesy and Poets an Anthology (1854); besides being a translator of Victor Hugo, and many of the more recent English and American poets. Several of F's poems have been translated into English by the American poet, Longfellow. Since 1868, be has resided at Stuttgart.

D. 1876.

Freques, (fratishoo) a small town of France, dep. Var. Im. from the Mediterranean, and 40 m. from Toulon. It was formerly a place of importance, surrounded by strong walls, and had 40,000 inhabitants. Originally a colony from Marsellies, it was afterwards colonized anew by Julius Ceear, who called it Fruen Julii. About AD. 970 it was deervoyd by the Saracene. Bonaparte

by Julius Casar, who called it Forus Julii. About A.D. 970 it was destroyed by the Saracens. Bonaparte landed here on his return from Egypt in 1799; and also on his return from Elba, in 1814. Psp. about 3,000. Prev'lig habburg, a post-village and port of entry of Quebec, in the co. of Missisquoi, about 28 m. S. E. of

linghuysen, in New Jersey, a township of War-

Fre'ling huysen, in New Jerzy, a township of Warren co.
Fre'mont, John Charles, a distinguished American
explorer, known as "The Pathfinder of the Rocky Mountains," was a. in Savannah, Georgis, in 1813, of a mixed
French and Virginian parentage. Though left an orphan
in his 5th year, F. received a good education. having, at
the age of 15, entered Charleston College, S. C., where
he highly distinguished himself by his proficiency in
mathematics and other kindred sciences. In 1833, after
a period during which he had devoted himself to the
duties of a private teacher, F. was appointed teacher of
mathematics on board the U. S. sloop of war Natchez,
with which he proceeded on a cruise to S. America. On
his return he turned his attention to civil-engineering,
and was recommended to government for employment
in the exploration and survey of the mountainous region between S. Carolina and Tennessee. In 1838-9, F.
undertook the exploration of the country between the
Missouri River and the British frontier, and in 1838

received a commission as 2d lieutenant in the corps of topographical engineers. Shortly afterward, he proposed to the government to undertake the exploration of the Rocky Mountains—at that day a terra incognita. His plan being approved, he, in 1842, started with a handful of picked men, and reached and explored the South Pass. Not only did he fix the locality of that great defie through which thousands have since found their way to California, but he defined the astronomy, geography, betany, geology, and meteorology of that region, described the route since followed, and designated the points upon which a line of U.S. forts were subsequently erected. In 1846, after receiving a step in military rank, F. cleared the N. part of California of Mexican troops, and then, seeking a broader field of activity, planued an expedition to the distant territory of Oregon. He approached the Rocky Mountains by a new line, scaled the summits 8. of the South Pass, deflected to the Great Salt Lake, pushed investigations right and left He approached the Rocky Mountains by a new line, scaled the summits 8. of the South Pass, deflected to the Great Salt Lake, pushed investigations right and left his entire course, and at the same time connected his survey with that of Com, Wilke' exploring expedition. Later in the winter, without resources, adequate supplies, or so much as a guide, he traversed the wilderness to the Rocky Mountains. In this daring expedition he crossed 3,500 m. of country in sight of eternal snows, discovering the grand features of Alta California, its great besin, the Sierra Nevada, the valleys of San Josquin and Sacramento, and determined the geographical position of the W. portion of the N. American continent. In 1846 P. was promoted to the rank of lieut-col., and also military commandant and civil governor of the Territory of California, in which capacity he, in 1847, concluded those articles of capitulation by which Mexico conceded exclusive possession of that territory to the U. States. In the same year P. purchased in California the valuable Mariposa estate, upon which he settled in 1849. In 1853 Col. F. undertook a fifth expedition across the continent, made new discoveries, and reached California after enduring almost incredible hardships. In 1856 he was an unsuccessful candidate for the presidency in opposition army. He then, as commander of the Western Union army, marched into Missouri with the view of encountering Gen. Price's Confederate force then in possession of that State, but an unfortunate dispute with a subordinate officer caused the War Department to relieve him of his command. In 1863 Gen. F. was nominated for of that State, but an unfortunate dispute with a subor-dinate officer caused the War Department to relieve him of his command. In 1863 Gen. F. was nominated for the Presidency by the Cleveland Convention, which can-didature was, however, ultimately withdrawn. He was appointed governor of Arizona in 1878, holding that position until 1881, after which he practised law for some time in New York City. Died July 13, 1890. "Pre' momt, in Culifornia, a village of Merced co., about 20 m. S. W. of Mariposa. —A township of Santa Clara co.

20 in. S. W. of mariposa.

A township of Santa Clara co.

A village of Yolo co., on the Sacramento river, about 70 m. N. N. E. of Benicia.

m. N. N. E. of Benicia.

Fre'moent, in Colorado, a S. central co.; erea, about 70 in 1,600 sq. m. Rivers. Arbanasa and Huerfaño rivera. Surfaca, mountainous, being traversed by the Racky Mountains; soil, in some places fertile. Min. Gold and silver. Cap. Cahon city. Pop. (1889) 9,156.

Fre'moent, in Illinois, a township of Lake co.

Fre'moent, in Indiana; oils. Pop. about 750.

Fre'moent, in Iosea, a S. W. co., bordering on Missouri and Nebraaks; area, about 501 sq. m. Rivers. Missouri and Nebraaks; area, about 501 sq. m. Rivers. Missouri and Nishnabatona rivers, and Keg creek. Surface, diversified; soil, fertile. Cap. Sidney. Pop. (1895) 17,176.

—A township of Benton co.

—A township of Buchanan co.

—A township of Butler co.

township of Butler co. township of Cedar co.

A township of Clarke co.

-A township of Clarke co.
-A township of Fayette co.
-A township of Hamilton co.
-A township of Johnson co.
-A post-village of Mahaska co., about 70 m. 8. W. of
Iowa City.
-A township of Page co.
-A township of Winneshiek co.

A township of Winneshiek co.

Fre'mont, in Kensea, a thriving township of Lyon co.

Fre'mont, in Michigan, a township of Newaygo co.

A township of Saginaw co.
 A township of Sanllac co.

—A township of Sanilac co.

—A post-village of Newaygo co.

—A township of Tucola co.

Fre'mont, in Hissewia, post-office of Winona co.

Fre'mont, in Hissewia, post-office of Winona co.

—A village of Goodbue co., about 60 m. W. of St. Paul.

—A township of Winona co.

—A village of Wright co.

Fre'mont, in Hissowi, a village of Cedar co., about 110 m. W. S. W. of Jefferson City.

Fre'mont, in Nebraska, an important city, cap. of Dodge co., on Platte river, and the Union Pacific and 2 other railroads, 37 m. N. W. of Omaha. Here are extensive creameries, packing houses, brick works, and other manuf.; the trade center of a fine farming and stock region. Pop. (1897) about 9,500.

Fre'mont, in New Hampshire, a post-township of Bockingham co.

ingham co

inghani co.

Fre'mont, in New York, a townsnip of Fre'mont, in Ohio, a thriving city, cap. of Sandusky co., on three railreads and Sandusky river at head of navigation, 30 m. S. E. of Toledo; in the natural gas region; has extensive—manuf. of implements, machinery, flour, &c. Pop. (1897) about 11,000.

Fre'ment, in Principlemia, a post-office of Chester co.
Fre'ment, in Wisconsin, a village of Dodge co., about 10 m. S.K. of Horicon.

A village of St. Croix co., about 15 m. N.E. of Hudson. A post-village of Waupsca co., on Wolf river. Termont Basin, or Frenont's Basin, in [lak. Science Research.]

GRAT BARN.
Fre'mont Center, in Illinois, a P. O. of Lake co.
Fre'mont Center, in Michigen, a P. O. of Newaygo
co.; now called Framont.
Fre'mont Center, in New York, a post-office of

Stilivan co.

Fre'ment's Ramch, in California, a district in Mariposa co., which consisted of about 48,000 acres, and was once considered the richest mineral estate in California.

Freme's. a. Pertaining to France, or to its inhabitants.—a. The language spoken by the people of France.—See Frence LAMBRAGE. FRENCH LANGUAGE

GREAT RASE

French'-beam, n. (Bot.) See Bran.
French'-berry, n. (Bot.) A species of plants, genus

French'sberry, s. (Bot.) A species of plants, genus Rements (g. v.).

French Broad River, in North Carolina and Tensone, rises on the N. slope of the Blue Ridge in Henderson co., in the former State, and after a tortuous N. and N.W. course through Buncombe and Madison cos., enters Tennessee in Cooke co.; thence passing through Jefferson and Sevier cos., it joins the Holston river in Krox co. Length, about 250 m.

French'burg, in Kentschy, a post-village, cap. of Menifec co., about 54 m. E. of Lexington.

French Chailk, s. (Mis.) A kind of sospetone of a soft and greasy nature, known by that name, and sometimes called Briangon chalk, because it is obtained in great quantities near that town, and in other parts of France. It forms a white pigment when properly prepared, and is much used by tailors in marking the pattern of garments on cloth, before cutting them out; as the marks made can be easily obliterated, and cause to injury to the material.

Because of New Market and California, a post-village of New Market and California and California and California and California and California

no injury to the material.

Premeh Cor'ral, in California, a post-village of Nevada o., about 12 m. N.N.W. of Nevada.

Premeh Creek, in Iossa, a post-township of Allama

Resco.

French Creeks, in New York, a post-town and township of Chautanqua co. Pop. (1897) about 1,200.

French Creeks, in Pennyleoniu, enters the Allegheny
river at Vranklin, in Venango co. Length, about 150 m.
The Indian name is Venango Creek.

Enters the Schuylkill at Phoenixville, in Chester co.

4 village and companying Marcar co.

A village and township of Mercer co.

A village and township of Venango co.

Prench Creek, in West Virginia, a P. O. of Upshur co.

French Creek, Church, in North Carolina, a former

French Creek, in West Virginia, a P. O. of Upshur co. French Creek Church, in North Carolina, a former post-office of Bladen co.
French Greek, in Risiosia, a village of Bureau co., about 50 m. N. of Peoria.
French Grewe, in Illinois, a village of Bureau co., about 50 m. N. of Peoria.
French Gulleth, in Chifornia, a post-office of Hanover co. French Hay, in Virginia, a post-office of Hanover co. French-hom'eysmekle, n. (Bot.) A species of plants, genus Hadysarum, q. v.
French Hoyra, n. (Mus.) A wind-instrument, consisting of a long tube twisted into several circular folds, gradually increasing in size from the mouth-place to the bed, or end at which the sound issues. As it is not provided with hotes, like the flute, its sounds are varied by the lips of the player, the greater or lesser pressure of his breath, and the insertion of the hand into the bell, or end from which the sound issues; it may also be tuned to a variety of keys, by means of crooks and sheaks, or movable pieces added to, or removed from, the top of the tube, as required. The introduction of the horn, in common with that of the trumpet, dates in the provided with class of instruments have been greatly improved by the addition of keys, valves, crooks, &c. French'iffeed, p. a. Conformed to French principles, maners, or habits.

French'Iffeed, p. a. To make French: to Gallicise.
French'Iffeed, p. a. Resembling the French; French-iffee, a. Resembling the French; The origin of the Parach's terms and the terms of the terms of the class of the preschified.

French'-Ifixe, a. Resembling the French; Frenchified.

French Language and Literature. The origin of the French language is to be truced to three disinct sources—the Oblic, the Latin, and the German. Of the Celtic, or earliest of these, (the language of the country prior to the Roman invasion,) comparatively few traces are to be found in that of the present day. When the country came under the dominion of the Romans, the Latin, being the language of the conquerors, came, by degrees, to be that of the people generally. Not, however, the classic form of that language, which is met with in authors, but a corrupt dialect of it, known as the lingua Roman Empire, this language became corrupted by the admixture of words and expressions from the Burgundian, Visigothic, Frankish, and other barbaric tongues. In the 7th cent., two forms of speech prevalled in the country—a corrupt dialect of the lingua Romans, and a form of German known as the lingua Prancisca, or Theorisca, or the Tudesque. The latter prevalled in the N. and E. parts of the country, and the former was spoken S. of the Loire. The Council of Tours (a.p. 813) recommended the use of both the Rustic and Tudesque versions of the Homilies. In course

of time these two became in some measure blended, the Latin element remaining the more prominent; and this corrupt language was called the Romance. It was divided into two branches, which took their names from their respective modes of expressing the word yes. The Visigoths and Burgundians S. of the Loire said oc (Latin ac, Ger. auch, also) for yes, while the Franks and Normans goths and Burgundians 8, of the Loire said oc (Latin ac, Ger. auch, also) for yes, while the Franks and Normans to the N. said oil; and hence the dialect of the former was called la langue d'oc, and of the latter la langue d'oil; the former of these, which came to receive the name of Procençal, from the kingdom of Provence, which at one time included the whole of the 8 of France, was characterized rather by a modification of Latin words, than by the admixture of foreign words and idioms. Though much changed, it is still the dialect of the common people in Provence, Languedoc, Catalonia, Valencia, Majorca, Minorca, and Sardinia. Less troubled by wars, and of a more gay and sprightly turn of mind, the language of the Southerns speedily became polished, and its glory was spread over Europe by the labors of the Troubadours. The dialect of N. France had a much greater admixture of the Germanic element polished, and its glory was spread over Europe by the lators of the Troubadours. The dialect of N. France had a much greater admixture of the Germanic element than the S., which was still further augmented by the establishment of the Normans in that part, in the beginning of the 10th cent. The Trouvères of the N., at a later period, in their ruder tongue, followed the example of the Troubadours; — but while the latter amp the soft strains of love, the former celebrated deeds of war and chivairy. After the commencement of the Crusades, both languages approached towards a fusion. The cruel persecution of the Abligeness checked the development of the Provençal language; and the extending of the political rule of the N. southwards brought with it the language of that people. The real French language began to be developed about the time of the conquest of Constantinople by the French Crusaders, at the beginning of the 13th cent. Froissart's Chronicles, of the 14th cent., is the earliest work in genuine French, —French which is quite intelligible to the student of the present day. Francis I. greatly encouraged the development of the French, and substituted that language for Latin in public transactions. Rabelais greatly enclosed it Runard and hu Relley Amvet and Monthelm opment of the French, and substituted that singleage for Latin in public transactions. Railelais greatly enriched it. Rouserd and Du Bellay, Amyot and Montaigne, and others, developed it still further. The religious reforms, political troubles, and the influence of the Italian wars and queens, modified it greatly. The introduction of Arabic words is chiefly due to the Crusades; Italian wars and queens, modified it greatly. The inroduction of Arabic words is chiefly due to the Crusades; and of Greek and Latin words, and of scientific terms, to the study of these languages and to the cultivation of the natural sciences. The Académie Française, established by Richelieu for the regulation of the national language (1835), the influence of the court, the labors of the Port Royalista,—especially Pascal (1866), and aglaxy of great writers,—purified, augmented, and diffused it more and more. It was first used as a diplomatic language at the conference of Nimeguen (1878). The French is the most generally known of all languages among civilized nations; and many illustrious foreigners, as Leibnitz, Humboldt, Gibbon, and Sir William Jones, have written some of their works in it. It is a very clear tongue, on account of the strictly logical order of its syntax, but incapable of the composition of words already fixed, as well as of bold poetic turns. The French language, in short, is like every other, the exponent of the nationality, vicisitudes, intelligence, culture, and teast of the people that speak it. The earliest literature of France is that of the Troubadours and Trouvères. The former flourished most during the 11th and 12th cent. Their productions were chiefly short virical effusions on love, or matters of triffing import. culture, and tasts of the people that speak it. The earliest literature of France is that of the Troubadours and Troubères. The former flourished most during the 11th and 12th cent. Their productions were chiefly short lyrical effusions on love, or matters of triffing import, and they exhibit little play of the imagination, little depth of emotion, and very slight traces of learning. The Troubères, on the other hand, in their narrative poems known as Chansons de geste, and written in the energetic langue d'oil, treated of great national subjects, and celebrated the heroic deeds of illustrious kings and knights. Some of their compositions, especially the earlier, have a striking character of grandeur, which may sometimes be not unfavorably compared with that of the ancient epic poems. These chansons de geste, also called romances, are very numerous, and have been classified into three cycles, bearing respectively the names of Charlemagne, King Arthur, and Alexander, — the first celebrating the deeds of the great Frankish emperor, his descendants and vassals; the second comprising traditionary legends regarding the achievements of King Arthur of Britain and the Norman warriors; the third consisting of poems in which events in the history of Greece and Rome are strangely mixed up with chivalric notions and legends of fairyland. These were succeeded by satirical and allegorical poems of equally vast proportions, some of which enjoyed unparalleled popularity; such as the Roman de Renard, and the Roman de Renard, and the Roman de Renard, and the Fox," the Roman de La Rose. The former is the well-known story of "Reynard the Fox," the Roman de La Rose. The former is the well-known story of which were written by Guillaume de Larrie in the early part of the 13th century; and the work was completed fifty years later, by Jean de Meau. This is, perhaps, the most celebrated French production of the Middle Agrs. It is a kind of didactic allegorical poem, which professes to teach the art of love, and embraces the most varied s

venture, often containing a great deal of wit or fun, being generally satirical in their character; they are, however, frequently disfigured by a coarse licenticousness. Songs were not neglected; and those of the illustrious Abelard, in the 12th century, enjoyed a wide popularity. The progress of prose was slower than that of poetry but the 13th century presents two specimens, slowing that it had already acquired a certain degree of power and polish. These are the Chronicle of the Compust of Constantingle, by Villehardouin (1207), and the interesting and simple Life of St. Louis, written by Joinville, who tells us of the herric deeds and private virtues of the good king, whom he had accompanied to the Holy Land. In the latter half of the 13th century we also find some tolerably good specimens of the drama in the Mysteries and Moralities of that period. The whole of the literature of the 14th century culminates in Froisart's Chronicles, which present the liveliest pictures of society and manners during that period of war and gallant enterprise. The greatest writer of the 15th century, also a chronicler like Froissart, is Philippe de Comines, who his Memoires presents a striking delineation of the characters of Louis XI. and his contemporaries. To the same period also belong two of France's distinguished poets, who, strange to say, present a striking contrast to each other in their outward circumstances,—the one the princely Duke Charles of Orleans, the other the low-bred and lawless Villon, a strange compound of villany and inspiration. A new epoch in the history of French literaseach other in their outward circumstances,—the one the princely Duke Charles of Orleans, the other the low-bred and lawless Villon, a strange compound of villany and inspiration. A new epoch in the history of French literature begins with the reign of Francis I. (1816). The study of the Greek and Roman authors now began to prevail in France; and writers, dazzled by the hitherto unknown beauties of the classical writers, despised the works of their forefathers, and applied themselves to the imitation of the ancients. Thus arose the so-called Modern Classical School; while that which, instead of imitating the ancients, derived its materials from national elements, has been designated by the appellation of "Romantic." Tolerably free from the classic element are the works of Clement Marot, the greatest French poet of the reign of Francis I.,—while the leader of the new or classical school was Ronsard, an author long extelled far above his merits. A host of other writers characterise this century, chief among whom are Rabelais and Montaigne. In the 17th century Malherle appeared as the reformer, or rather the regulator, of poetry,—a man of fastidious taste but meagre imagination, who despised the artistic luxuriance of Ronsard, introducing in its stead a style of grammatical correctness and dry elegance, which sometimes reached pomposity. Balzac devoted his attention to the improvement of proce, and his semi-philosophical works, especially his Episiles, were valuable at the time as models of careful and harmonious style. Such were also the frivolous but witty testers of his friend Volture. In 1634 the French language, and to make it not only elegant but capable of treating all matters of art and eclance." Three writers of the lieu, "to establish certain rules for the French language, and to make it not only elegant but capable of treating all matters of art and science." Three writers of this period enriched French literature with important works, and did much toward the improvement of its language. Pierre Corneille brought tragedy to a degree of grandeur which has not been surpassed; Le Cid, Horace, Cima, and did much toward the improvement of its language. Pierre Corneille brought tragedy to adegree of grandeur which has not been surpassed; Le Cid, Horace, Cimna, and Polyewcte, being among the best of his works. Descartes, in his Discours sur la Michade, showed that the French language was equal to the highest philosophical subjects; and Pascal, in his Lettres Provinciales, in which comic pleasantry and vehement eloquence are happily blended, first formed a standard for French prose. Such was the opening of the splendid literary epoch which is generally styled the "Age of Louis XIV." and which is distinguished by a galaxy of superior intellects, who, under the royal patronage, applied themselves to perfecting every branch of literature. The pulpit is set forth by the eloquence of such men as Bossuet, Flèchier, Bourdaloue, and Massillon. Tragedy lost little of its power in the hands of Racine, whose Andromaque, Iphigénic, and Phèdre remind one of the productions of ancient Greece; while comedy reached its highest pitch with Molière, whose master-pieces, La Misanthrope, Turiufte, L'Avare, and Les Femmes Surantes, are very humorous creations. In his Fubles, La Fontaine showed himself the greatest master of that kind of composition in modern times. Didactic poetry was represented by Boileau, whose works are remarkable for symmetry and good sense, but are entirely deficient in poetical enthusiasm. Moral philosophy was cultivated by Malebranche, the disciple of Descartes, and author of La Recherche de la Vérité; by Bossuet, who wrote Comatisance de Dieu; and by Pascal, in the fragments which have been collected under the title of Persée; while De La Rochefoucauld, in his Sentences et Maximes, wrote a libel upon mankind, and La Bruyère, in his Curactères, drew vivid and amusing sketches of human characters have been collected under the title of Prasses; while De La Rochefoucauld, in his Sentences et Maximes, wrote a libel upon mankind, and La Bruyère, in his Caractères, drew vivid and amusing sketches of human characters and manners. In the field of history, we also meet with Bossuet, as the author of Discours sur l'Histoire miverselle, and Histoire des Variations des Eglises Protestantes. Here, too, we have Méserai, author of Histoire de France, and Fleury, author of Histoire de France, and Fleury, author of Histoire de PEglise. In memoirs and letters there are the personal Memoires of Ourdinal de Retz; Hamilton's Mémoires of Madame de Sévigné to her daughter and friends. The Ittl century had been, on the whole, a religious one; but the 18th was eminently an age of scepticism and institutions. The persons who exercised the chief sway during this period, and who exerted a powerful influence upon their contemporaries, were Montesquieu,

Voltaire, J. J. Rousseau, and Buffon. Montesquieu, a writer of great force and brilliancy, and of unusual scope of mind, commenced his literary career by publishing Les Lettres Presenes, attacking French manners, institutions, and even religion. His principal works, however, are his Considerations sur la Granden et la Décadence des Romains, and his Esprit des Lois, an able and profound disquisition upon general legislation. Voltaire, the true personation of his age in disposition, as well as in talents, was for half a century the leader of public opinion in France. His wonderful versatility enabled him to treat successfully almost all branches of literature—tragedy, satire, romance, poetry, history. well as in talents, was for half a century the leader of public opinion in France. His wonderful versatility ceabled him to treat successfully almost all branches of literature—tragedy, satire, romance, poetry, history, and philosophy. The passionate eloquence of Rousseau made him be listened to and besieved in, even when he was declaring war against civilization, and attacking the social order of things. Busino occupied a less agitated sphere, devoting himself to the study and description of nature; and by his Histoire Naturelle he introduced a new zera in the study of natural history. Diderot and D'Alembert founded the Encyclopédie, a vast review of human knowledge, but always hostile to religion. Helvetius, in his treatise De l'Exprit; D'Hobach, in his Système de la Nature; and Launetterie, by his L'Homme Machine, and La Vie heureuse Sénème, far exceeded the encyclopedists in the destructive tendency of their doctrines. Among the few defenders of revealed religion during the period was J. Vernet. Among the metaphysical writers, the first place is due to Condillac, followed by Vauvenargues. Condorcet, and Bounet of Geneva, all of whom remained on the side of moderation, and gave little support to the tendencies of the age. One of the most learned historians of that period was Mably. Charles des Brasses, Goquet, Barthélemy, Raynal, De Mehegan, Velley, are also names of note in this department. The mathematical and physical science made great progress in France during the 18th century, as witness the names of D'Alembert, Lagrange, Lalande, Lacaille, Maupertuia, Clairaut, Lemonnier, Condamine, and others. In natural history, we have Buffon and Charles Bonnet, Brissot, Vice d'Ayr; Jussien in botany, and Saussure in geology. In poetry, the drama, and general literature, we may mention the names of Crebillon and Ducis, both tragic poets; Le Sage, author of Gil Bus and of Turcaret, perhaps the best comedy after those of Molière: Beaumarchais, author of the Barbier de Sécille; Bernardin de St. Pierre, author of Ruil dame de Staél and Châteaubriand were the forerunners of a revival, which was perhaps, less owing to their works, than to the influence upon public taste of the masterpleces of English and German literature, which found more and more admirers in France. A new romantic school now sprung up, and, through the exertions of many young and original writers, new life was infused into nearly every branch of literature, poetry, history, philosophy, and the drams. An animated controversy was m untained between the supporters of reform and the adherents of the classical school: and the contest reached its utmost fury when Fredéric Soulié, Alexanire Dumas, Victor Hugo, Alfred de Vigny, and others, produced on the stage dramas framel according to their ideas of the Shakspearean style. It was only after several years that the youn, or body of combanate came out victorious. Novels which, during the extended to the contest, had been scarcely noticed, beto their ideas of the Shakspearean style. It was only after several years that the younger body of combatants came out victorious. Novels which, during the excitement of the contest, had been scarcely noticed, became the rage soon after it was settled. Ge greg Sand (Madame Dudevant), one of the most elegant writers of her country, established her character by her Indiana, which appeared in 1832, and has since published many popular works. Alexandre Dumas, the inexhanstible romancist, has won immense popularity by his works Les Trais Mousquetaires, Le Combe de Monte Cristo, and numerous other works. Engène Sue also obtained great popularity by his works Les Mystères de Paris, and Le Julf Errant, which depict in glaring colors the miseries and depravities of society. Among other distinguished writers we may mention Honoré de Balzac, Frédéric Soulié, Alphonse Karr, Alfred de Musset, Prosper Mérimée, Madame Emile de Girardin, Théophile Gantier, Jules Sandeau, and Emile Souvestre. A new generation of story-tellers has been rising within the last few years, who, though their powers are scarcely to be compared with those of their predecessors, are, nevertheless, not devoid of talent. Some of them belong to what they themselves call the realistic school; they are Henri Murger, Alexander Pumas fils. Champfieury, Ernest Feydeau, Emile Zola, Octave Feuillet, and Edmond About. Poetry is far from being as popular in France as the novel, and the country has produced but few great poets during the present century. The four greatest lyrics are Béranger, Victor Hugo, Lamartine, and Alfred de Musset; besides whom. Casimir Delavigne, Auguste Barbier, and Victor de la Prade are the only names requiring to be mentioned. History is, undoubtedly, the most successful branch of modern French literature. A larger number of valuable historical works have been published within the last fifty years than during any other equal period of its history; and the taste for such preformances is still on the increase. M Guizot, the great philosophi

tractive specimen of purely narrative history, has recently published Hubares of the Concention and the Directory, in which his monarchical tendencies are strongly apparent. The revolutionary period has engaged the attention of many historiana; among whom the most prominent are Thiers, Mignet, Michelet, and Louis Blanc. Lamartine also figures among the historians, having produced several works of that class, which however, are more remarkable for their showy language than for their accuracy or research. The elegant and accomplished Villemain, although better known in the field of general literature, has also produced several historical works, as his Historie de Cronwell, and his Sawaris Contemporains. As a lecturer and a critic, no man has contributed more to the diffusion of enlarged literary doctrines, healthy principles, and good taste. Archeology has not been neglected, as is evidenced by the works of Letrone, Raoul Rochette, and Beulé. Champollion, Sylvestre de Sacy, Kruest Benan, and Abel torical works, as his Historic de Crossvell, and his Samesire Condemporains. As a lecturer and a critic, no man
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works of Letrone, Raoul Rochette, and Beulé. Champollion, Sylvestre de Sacy, Kruest Renan, and Abel
de Rémusat, have thrown great light upon Egyptian
and Oriental languages and literature. In philosophy, Victor Cousin and his disciples have, under the
name of Eclecticism, brought back the materialism of the
preceding age to spiritualist principles. Jouffroy, Damiron, and Jules Simon are among those who have contributed to this result. Writers on politics and political economy are Joseph de Maistre, Bouald, Ballanche,
Lamennais, Michel Chevalier, De Tocqueville, and Laferriere; while as socialists, figure the names of St.
Simon, Fourier, and Pierre Leroux. Auguste Comte,
this Cours de Philosophie positive, offers a connected
system of philosophy, embodying ideas derived from
liegel and sundry of the French socialists. The various
branches of natural philosophy boast of many original and powerful writers. In natural history are Cuvier, Geoffroy St. Hilaire, Isidore St. Hilaire, and
others; mineralogy boasts of Elie de Reaumont, Bendant, and Dulresnoy; and chemistry and physics, of
Thémard and Dumas, Gay-Lussac and Pasteur. In medical literature we have the names of Bichat, Broussais,
Corviart, Magendie, Trousseau, and many others. The
mathematical sciences have distinguished representatives in Lagrange, La Place, Ampère, Biot, and Arago.
The French essayiata and literary critics are legion, and
some of them have attained great eminence, among
whom we may mention Silvestre de Sacy, St. Marc Girardin. Philarète Chasles, Ernest Renau, Hippolyte Rigaud, Gustave Planche, Ste. B. uve, Charles de Rémusat, Emile Littré, E:mond About, Théophile Gautier,
Leon Delaborde, Jules Janin, the dramatic feuilietonist, and Tai off. The literary movement, which commenced with the Restoration, seems to be now nearly exhausted; and though there has been little failing off in intellectual activity, the rising generation of writers are not on the whole equal to their predecessors. See Van Laun's Hist. French Lit.

rench Lick, in Ind., a post-township of Orange co. rench'man, n.; pl. Fakachnen. A native or inhab itant of France.

itant of France.

Prenechman's Hay, in Maine, an arm of the Atlantic ocean in Hancos & co.; Lat. 44° 16' N., Lon. 68° 25' W. Prenech Mills, in Missouri, a P. O. of Madison co. French Mountain, in New York, a post-office of Warren co.

French Mountain, in New York, a post-office of Warren co.
French'-pie, n. (Zoil.) The great spotted Woodpecker, Picus major.
French'-plusm, n. (Bot.) See Prunus.
French'-plusm, n. (Bot.) See Prunus.
French'-polishing, n. (Arts and Manuf.) A method of polishing flat surfaces with a solution of gum or gum-resin in spirits. For this purpose the polish is made more fluid than the hard-wood lacquer used in polishing turned surfaces, in order that it may spread easily and dry less rapidly. As the friction is derived entirely from the motion of the hand in French-polishing, more time is required than in polishing turned works. There are a great many recipes for making French-polish, which vary greatly, as some prefer it very thin, and others tolerally thick. One of the simplest methods is to dissolve 1½ lbs. of shel-lac in one gallon of spirits of wine without heat. Copal, sandarac, mastic, and gum-Arabic are sometimes employed. It is usual to make the varnish thicker than is required for use, and to thin it down with spirit when being used.
French port, in Arbansac, a P. O. of Ouachita co.
French Rapids, in Missaccota, a village of Crow Wing co., about 16 m. N. E. of Crow Wing.
French River, a river of Ontario, taking its rise in Lak 80 537 N., Lon. 810 57 W.
French River, a river of N. W. Territory, enters Hudson's bay in Lat. 510 87 N., Lon. 810 W.
French Set'tlement, in Louisiana, a post-office of Livingston parish.

French Set'tlement, in Louisiana, a post-office of Livingston parish.

French'ton, in West Virginia, a post-village of Upshur co., about 100 miles S. by E. of Wheeling.

French'town, in Michigan, a township of Monroe co.

Frenchtown, in New Jersey, a post-village of Hunterdon co., on the Delaware river, about 16 miles above Lambertville.

Frenchtown in Pensulgasia a village of Bradford

Frenchtown, in Pennsylvania, a village of Bradford co., 135 miles N. of Harrisburg. The P. O. is Horner's Ferry.

FEREY.

French Village, in Illinois, a post-village of St. Clair co., about 8 miles E.S.E. of St. Louis.

French Village, in Minacota, a post-village of St. François co., about 47 miles S. of St. Louis.

French Village, in Mine, a P. O. of Aroostook co.

French Village in Prinsylvania, a post-village of Clarfield co., about 14 miles E.N.E. of Clearfield.

full assembly

ini assembly. "Fe'kwent.) a. [Fr. fréquent, from Lat. frequents. Etymol. uncertain.] Taking place frequently or often; often seen or done; often happening at short intervals; often occurring; taking place time after time,

or on many occasions.

—e. a. [Lat. frequento, from frequent.] To visit often; to resort to often or habitually.

Frequenta'tion, s. [Fr., from Lat. frequentatio.] A crowding together; frequent use; act or habit of visiting often.

ing often.

Frequent'stive, a. [It. frequentative; Lat. frequentativus.] Denoting the frequent repetition of an action.

—Applied to verbe.

—n. A verb which denotes the frequent occurrence or repetition of an action.

Fre'quented, p. a. Often visited.

Fre'quently, adv. Often; oft; oftentimes; many times; at short intervals; commonly.

Fre'quentmess, n. Quality of being frequent or often repeated.

repeated. "Pe'rieha, FRIEDRICH THEODOR, an eminent German physician and professor of medicine, a. at Berlin, 1819. In 1838 he entered the university of Güttingen, where he devoted himself to the study of medicine and natural sciences. After his graduation in 1840, and attendance at the lectures of Schönlein and Dieffenbach in Berlin,

sciences. After his graduation in 1840, and attendance at the lectures of Schönlein and Diefenbach in Berlin, he addressed himself to practical chemistry, and made a reputation as an oculist. After visiting the schools and hospitals in Prague, Vienna, Holland, Belgium, and France, to further his studies in pathological anatomy, he settled in Göttingen as lecturer on medicine, and achieved great popularity. In 1851 he went as Professor of Pathology and Therapeutics to Breslan, where he became also Director of the Medical Clinic. In 1859 P. was called to succeed Schönlein in Berlin as Director of the Hedical Clinic in the Charité Hospital. His principal work, however, is Klinik der Leberkruntheiten, with atlas—which has been translated into the French, English, and Italian languages.

Free'co, n. [It., fresh.] Coolness; freshness.

(Paint.) A method of painting by incorporating the colors with the fresh or wet wall-plaster, or sul frescointosaco, upon the fresh coat. When dry, such paintings become as permanent as the wall itself. This method is very ancient. It was used by the Greeks, and can be traced even to Egypt, for ordinary purposes of mere wall-coloring or staining; but for works of high art, it was not developed until after the time of Giotto: and the first genuine fresco-painting, called buon fresco, is supposed to be the work of Pietro d'Orvieto, executed in the Campo Santo at Piss, in 1390. The carlier wall paintings are executed in what the Italians, to distinguish it from buon fresco, now call fresco-seco. or discoon painting, the dry wall was well asturated with water, and the tints, all mixed with lime, were applied while the wall was wet, and when drying were, through the admixture of Illine, incorporated with it. Enos water, and the tints, all mixed with lime, were applied while the wall was wet, and when drying were, through the admixture of lime, incorporated with it. Bases freeco can only be executed in small portions, just as much as the painter can execute in a single day; the parts, therefore, marked out for the day's work are distinct portions of figures or objects, which are not injured by being surrounded by a sharp outline.— A new mode of creating durable pictures upon walls has been lately invented, to which has been applied the name of STEREO-CHERMY.

res'co, (Al,) adv. In the cool, fresh air; as, an el

Freen'eo, (AL) adv. In the cool, fresh air; as, an af frace entertainment.

Fresh, a. [Sax. ferse; Ger. frisch; Ital., Sp., Port. fresco; Fr. frais, fraiche.] Having the color and appearance of young, thriving plants; not impaired or faded; having the appearance of a healthy youth; florid; ruddy; recently grown, made, or obtained; new; recent; active; lively; vigorous; brisk; not forgotten or obliterated; not sait; pure and cool; not warm or vapid; free from decay; unfaded; sweet; not stale.—
Unpractised; raw; unskilled.

Fresh'em. v. a. To sweeten; to separate, as water from

Fresh'em, v. a. To sweeten; to separate, as water from saline particles; to take saltness from anything.
-c. n. To grow fresh; to lose salt or saltness; to grow

brisk or strong.

irisk or strong.

Fresh'eming, p. a. Making or growing fresh.

Fresh'eming, p. a. With freshness; newly; in the former state renewed; in a new or fresh state; with a healthy look: ruddily; briskly; strongly; coolly.

Fresh'smam, n. A novice; one in the rudiments of knowledge.—A student during his first year's residence at a college or university; as, an Oxford freshman.

Fresh'smess, n. State or quality of being fresh; newness; rigor; spirit; liveliness; renewed vigor; coolness; invigorating quality or state; ruddiness; freedom fresh saltness; rawness; briskness, as of wind.

Fresh Pond, in New York, a P. O. of Suffolk co.
Fresh'-water, a. Used only to fresh water; as, freshwater fish. — Raw; unskilled; unacquainted; as, freshwater fish. — R water soldiers.

w der soldiers.

Prewmel, AGUSTIV JEAN, an eminent French natural philosopher, B. 1788. He was educated at the École Polytechnique, and early devoted himself to the practice of civil-engineering. In 1815 he became distinguished as the discoverer of the polarization of light, and in 1823 was elected a member of the Academy. The result of his great discovery is shown in the system of lensilishting apparatus, which has changed the mode of lighthouse illumination over the whole world, and is universally known as the Fresnel system." In 1825 F. was elected F.R.S. of London, and in 1827 received the Rumford medal of the Society. D. 1827.

Press'me., in California, a S. central co.; crea, 8,010 sq. m.; sweface, greatly diversified and largely mountainous; soil, fertile in valleys. Prp. (1890) 32,026. Cap. Fresno.

Fresho.

A city, cap of above co, on S. Pac. R.R., 206 m. S.E. of San Francisco; has extensive manuf., and a large trade with the rich agricultural region surrounding. Pop. (1897) about 12,600.

Fres. v. a. [A.S. fretan, to eat or gnaw; Ger. fressen, allied to Fr. frotter; Lat. fricare, to rub.] To eat away; to gnaw; to corrode; to wear away; to hurt or impair by attrition: to chafe.

They would grate and fret the object n

-To tease; to irritate; to vex; to make angry. " Injuries from friends fret and gall." — Arbuthnot

To agitate violently by external impulse or action; as, to fret the surface of water. — To diversify; to variegate. [A. S. fretrien, to adorn.] To form into raised work; to adorn with raised work.

## "The roof was fretted gold."

—To furnish with frets, as an instrument of music.
—e. n. To make way by attrition or corrosion; as, to fret into wood, metal, &c. — To be vexed, chafed, irritated, or ARETY.

"His heart fretteth against the Lord." - Prov. xix. 3.

To be agitated, or in a violent commotion; as, ranco

frets ignoble minds.

Agitation of the mind; irritation; ill-humor; per vishness; vexation. — Any agitation of liquors or other fluid, by fermentation, confinement, or other cause. — A frith or strait.

(Arch.) An ornament (Fig. 1072) used in classical architecture, formed by small fillets intersecting each other at right ang.es. The varieties are very numerous.



Fig. 1072.-

(Med.) Chafing; herpes.
(Mus.) One of the cross bars on the finger-boards of stringed instruments of ivory or brass, wherewith by pressure of the finger the string is stopped to produce a certain note in the scale. The use of frets is still continued on the Spanish guitar, and they were formerly in constant use for learners upon what is called the basiviol; they were taken off when the pupil had learned by practice to measure the accurate distance of the stops. On lutes and viols they were always permitted to remain.
(Her.) A figure

(Her.) A figure resembling two sticks laid saltierwise, and interlaced with a muscle (Fig. 1073). When 6, 8, or nore pieces are re-resented crossing and interlacing like lattice-work





FRET. Fig. 1078. PRETTY.

lattice-work, the shield is said to be fretty.

pl. (Mining.) The sides of river-banks, &c., worn by attrition, and presenting a detritus of ores, stones, &c., washed down from higher localities, and thus affording an indication to the miners of the direction in which veins, lodes, &c. run

Freet, Same as Fritn, q. v.

Freet'fall, a. In a state of vexation; peevish; ill-humored; irritable; captious; petulant; angry; as, a freful disposition.

Free'fully, a. In a state of vexation; peevish; ill-humored; irritable; captious; petulant; angry; as, a frefal disposition.
Free'fully, adv. Peevishly: angrily.
Free'fully, adv. Peevishly: angrily.
Free'fully, adv. Peevishly: angrily.
Free'fully, adv. Corroded; rubbed or worn away.—
Agitated; vexed.—Made rough on the surface; variegated; ornamented with fretwork.—Furnished with frets, as a musical instrument.
(Her.) Interlaced one with the other; fretty. See FRET.
Free'tem, a. Rubbed; marked.
Free'timg, p. a. Wearing away; agitating; vexing.—Making rough on the surface; variegating.—a. A state of vexation; chaing; peevishness.
Free'ty, a. Adorned with fretwork.—See FRET.
Free'twork, s. Work adorned with fretwork.—See FRET.
Freedematadt, (froi'den-stat,) a town of Wurtemberg, on the Murg, 24 m. from Strasburg. Manuf. Prussian-blue, white lead, and woollens. Pop. 4,130.
Freedematadt, (froi'den-stat) a town of Austrian Silesia, on the borders of Moravia, 20 m. from Troppau.
Masuf, Woollens and linens. Pop. 4,000.

FRIC

Frews'burg, in New York, a P. O. of Chautanqua co.
Frews'ville, in New York, a village of Chautanqua co., abt. 24 m. E.S.E. of Maysville.
Frey'burg, in Saxony. See Freierr.
Frey'burg, in Switzerland, and in Baden. See Freiers, in Switzerland, and then this country by his admirable novel, Debit and Credit, which passed into a 7th edition in 1858.
Frimbil'ity, Frialleness, n. [Fr. friabilité.] Quality of being easily rubbed down, broken, crumbled, and reduced to powder.
Fri'able, a. [Fr., from Lat. friabilis, from friare, to rub or break into small pieces.] Easily crumbled or pulverized.
Fri'ar. [Fr. frère; Lat. frater, brother.] (Eccl. Hist.) A common term applied to monks of all orders, founded on the supposition that there is a kind of brotherhood existing between the religious persons of the same monastery. More particularly, it was applied to those of the mendicant orders of which the principal were the four following:— Franciscans, Minors, or Gray Friars, Augustines; Dominicans, or Black Friars; and Carmellites, or White Friars. In a more peculiar sense, friar is restricted to such monks as are not priests; the latter being usually dignified with the appellation of futher. (Print.) Any part of a page which has not received the ink in printing.
Fri'ars's-bal'sam, n. (Med.) The compound tincture of benzoin of the pharmacopocia. It is an alcoholic solution of benzoin, styrax, tolu-balsam, and aloes; it is used as a stimulating application to wounds and ulcers.
Fri'ars's-bal'sam's. (Med.) The compound tincture of benzoin of the pharmacopocia. It is an alcoholic solution of benzoin, styrax, tolu-balsam, and aloes; it is used as a stimulating application to wounds and ulcers.
Fri'ars's-bal'sam's. (Mississippi, a post-town, cap. of Coahoma co., about 150 m. N.N

POLLUX (q. v.).

rimr's Point, in Mississippi, a post-town, cap. of Co
homa co., about 150 m. N.N.W. of Jackson. Pop. 700.

homa co., about 150 m. N.N.W. of Jackson. Pop. 700.

Friary, s. A monastery or convent of friars. (R.)

a. Pertaining to friars, or to a convent.

Frim'tion, n. [Lat. friedto, from friare, to rub away.]

The act of breaking up, or reducing to powder.

Frib'ble, a. [Fr. friede; Lat. friedus, silly, empty, trifling.] Frivolous; trifling; silly.

a. A frivolous, contemptible fellow.

v. a. To trifle; to act frivolously.

Fribbler, n. A trifler.

Fri'courg, in Switzerland. See Freiende.

Fricandeau, Fricand. (fri'can-do.) n. [Fr. fricandeau, from friand, for fricand, dainty.] (Cookery.) A ragout of yeal.

deau, from friand, for fricand, dainty.] (Cookery.) A ragout of veal.
Frie angle, a. [Fr. fricassie, from fricasser, to fry; from Lat. frigere, frixum, to roast or fry.] (Cookery.) A dish made by cutting chicken, rabbits, or other small animals into pieces, and dressing them in a frying-pun, or a like utensil, with a thick sauce.

—e. a. To dress in fricassee.
Frie ative, a. [Lat. fricativus, from fricatio, a rubbing, from fricare, to rub.] (Pronunc.) Produced by the friction or rustling of the breath, intonated or unintonated, through a narrow opening between two of the mouth-organs; uttered through a narrow approach, but not with a complete closure of the organs of articulation, and hence, capable of being continued or prolonged; — said of certain consonantal sounds, as f, v, s, e, &c.

rick, (Lower,) a village of Switzerland, in the canton of Aargau, in the Frickthal, to which district it gives its name. Pop. 1,900.—The District of Frickthal extends on the south side of the Rhine, from Augst to Botzberg, and has an area of abt, 100 sq. m. The pop, numbering 20,000, is employed chiefly in cotton-spinning, and trading in wine, cattle, and timber.

Frick is damp, in Georgia, a post-village of Walker co., abt, 200 m. N.W. of Milledgeville.

abt. 200 m. N.W. of Milledgeville.

Fråe'tåom. n. [Fr., from Lat. frictio, from frigere, frictum, to rub.] (Mech.) The resistance which a moving body meets with from the surface of the body on which it moves. As no surfaces are perfectly amouth, the imperceptible asperities, which may be supposed to exist on all surfaces, however highly polished, become to some extent interlocked, and a certain amount of force is requisite to overcome the mutual resistance to motion of the two surfaces and to maintain the alking motion. is requisite to overcome the mutual resistance to motion of the two surfaces, and to maintain the sliding motion even when it has been effected. By increasing the pressure, the resisting power of F. is increased; while, on the other hand, by rendering the surfaces more smooth, and by lubrication, the resistance to motion is diminished, although it cannot be entirely avoided. Strictly, and by lubrication, the resistance to motion is diminished, although it cannot be entirely avoided. Strictly, F. should be called a force, except in a negative sense. In a general sense, the tendency of force is to produce motion, or, if it does oppose motion, it is only in virtue of a tendency to produce motion in the opposite direction. The peculiarity, however, of F. is, that it tends to destroy motion in every direction. F. is essentially a passive resistance, a negative force, produced by pressure, to which it bears such relation that its amount may be measured by the same unit, and be enunciated in the same terms. The principal laws with regard to F. are as follows:—Law 1. The F. hears to the pressure upon the surfaces in contact a ratio which is constant for the same materials with the same condition of surfaces. Thus, if the surface of one body be pressed upon that of another with a certain force, and if the force be doubled, the friction will be doubled; if the pressure be tripled, the F. will be tripled, &c. Law 2. The measure of F. is independent of the extent of surfaces, the pressure and the condition and character of the surfaces remaining the same. Law 3. The F. is entirely independent of the velocity of continuous motion. These laws, although

stated in reference to the movement of two smooth surfaces, are equally true with regard to the rui-bing parts of every machine. It is always found that the friction is greater between substances composed of the same material than between the surfaces of heterogeneous bodies.—The act of rubbing two bodies together; attrition; abrasion; confrication;—used in medicine as a means of exciting the vital properties of the skin.

Frietional, a. That relates to, or is caused by friction. Frietional, a. That relates to, or is caused by friction the end of a driving-shaft, fitted by a conical piece which slides on a feather, or raised part, at the end of another shaft, so that it can be engaged at pleasure by the cone being forced into the shell by a lever or screw. This apparatus is very useful for driving machines, the parts of which are subjected to violent strains, as the pressure upon the clutch can be regulated so as to allow it to slide when the strain is too great to be borne safely by the machine.

pressure upon the clutch can be regulated so as to allow it to slide when the strain is too great to be borne safely by the machine.

Frictionless, a. Having no friction.

Friday, n. [A.S. frig-deg, from Frigga, the goddess of marriage, wife of Odin or Wodan, and deg, a day; Ger. Freitag.] The sixth day of the week, formerly consecrated to the Scandinavian Venus Friga, or Frigga, from whence it derives its name.—The Dies Veneris, or day of Venus among the Romans.

Fried, imp. and pp. of Fry, q. v.

—p. a. Heated; agitated.

Friedberg, fredbairg,) a town of Bavaria, 28 m. from Munich; pop. 2,000.

Friedberg, a town of Hesse-Darmstadt, 15 m. N. of Frankfort-on-the-Main. A seminary for teachers is located here. Pop. abt. 6,000.

Friedberg, the name of several towns of Germany, none of them with a population of over 5,000. — High P., 20 m. from Liegnitz, in Silesia, was the scene of the defeat of the Austrians by Frederick II., in 1745.

Friedensburg, (fredens-burg), in Pennsylvania, a post-village of Schuylkill co., abt. 10 m. S.S.W. of Potteville.

Frie'densville, in Pennsylvania, a P. O. of Lehigh co. Friedland, (fred'land.) a name common to many German towns, with populations varying from 1,500 to

German towns, with populations varying from 1,500 to 5.000.

Friedland, a town of E. Prussia, 36 m. S.E. of Königsberg; Lat. 54° 28′ N., Lon. 21° E. It is famous for being the scene of the victory gained by Napoleon I. over the Russians and Prussians on the 14th of June, 1807, which led to the peace of Tilsit. Ppp. 2,500.

Friedland, a town in Bohemia. on the Wittig, near the Prussian border. It is the capital of the district or duchy of the same name, from which the famous Wallenstein took his title of Duke of F. Prp. of town 4,400.

Friend, (frend.) n. (A. S. frend., pp. of frent, to love; Ger. freund.) One joined to another by mutual goodwill and esteem; a well-wisher; an intimate associate or acquaintance. — An attendant; a companion. — A favorer; one who is propitious; also, a favorite. — A term of salutation; a familiar compellation. — One of the religious sect popularly called Quakers.

—c. a. To favor; to befriend; to countenance; to support. 
"I know that we shall have him well to friend." — Saaks.

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—e. a. To favor; to befriend; to countenance; to support.

"I knew that we shall have him well to friend."—Shaks.

Friendd'grove, in Illinois, a post-office of Walsah co.

Friendd'less, a. Wanting countenance or support; destitute; forlorn.

Friendd'ling, adv. In a friendly manner.

Friendd'liness, s. Friendly disposition; exercise of benevolence or kindness.

Friendd'liness, s. Friendly disposition; exercise of benevolence or kindness.

Friendd'ly, a. Having the temper and disposition of a friend; kind; favorable; benevolent; disposition to promote the good of another.—Disposed to peace; amicable; social; not hostile; neighborly; as, on friendly terms.—Favorable; propitious; salutary; promoting the good of; as, a friendly breeze.

Friend'ly (or Tonoa) Islamds, a group in the S. Pacific Ocean, forming an archipelage of very considerable extent, and consisting of more than 150 islands, the greater part of which are either mere rocks or shoals, or desert spots. Most of them are of coral formation; but some of them are volcanic in their origin, and in Tofus there is an active volcano. Lat. between 13° and 25° S., Lon. between 172° and 177° W. The principal member of the group is Tongatabu or Sacred Tonga, which contains abt. 7,500 inhabitants. The F. Islands were discovered by Tasman in 1643, but were named by Captain Cook, from the firm alliance that seemed to subsist among the natives, and from their courteous behavior to strangers. Among the products of the islands are yame, plantains, cocon-nuts, hogs, fowls, flah, and all sorts of shell-fish. The F. I. were first visited by missionaries in 1797. In 1827 the Wesleyan Methodists succeeded in the work of evangelization, and their labors were finally crowned with such success that most of the inhabitants are now Christians. Nearly all the islands are under the rule of one Christian chief called King George. Php. abt. 25,000.

Friends, or "Quakers." The Religious Society o

spiritual perception. It is the doctrine of Friends that the light of Divine truth, or Spirit of Christ, appears to all men; to the wicked he comes as a reprover for sin, but to the obedient as a comforter in righteousness.—
The Original and Present State of Man. It is a Scriptural doctrine, among Friends, that neither righteousness nor unrighteousness can be transmitted by inheritance, but every man will be indeed "according to his deeds." unrighteousness can be transmitted by inheritance, but every man will be judged "according to his deeds." The Divine Being. The unity, omnipresence, omniscience, and omnipotence of God, the only fountain of wisdom and goodness, are fully set forth in the Scriptures of both the Old and the New Testament. . "I, even I, am the Lord, and besides me there is no saviour." .. In the Sermon on the Mount we are taught to address the Most High by the endearing appellation of our Father in Heaven, and to place our trust in him alone who feeds the fowls of the air and clothes the lilles of the field. That spiritual influence by which the Most High communicates his will to man is called His Word. The term Christ is applied by the aposties to the Spirit ther in Heaven, and to place our trust in anim atome who feeds the fowls of the air and clothes the lilles of the field. That spiritual influence by which the Most High communicates his will to man is called His Word. The term Christ is applied by the apostles to the Spirit of God as manifested in man. It is written that "when the fulness of time was come, God sent forth his son, made of a woman, made under the law to redeem them that were under the law, that we might receive the adoption of sons, and because ye are sons, God lath sent forth the Spirit of His Son into your hearts, crying Abba, Father." (Gal. iv. 4.) The Spirit of God and the Spirit of Christ are the same, as further appears by the following text: "Ye are not in the fiesh, but in the spirit, if so be that the Spirit of God dwell in you. Now, if any man have not the Spirit of Christ, he is none of his." (Rom. viii. 9.) The most full and glorious manifestation of the Divine Word, or Logos, was in Jesus Christ, the immaculate Son of God, who, according to the Scriptures, was miraculously conceived and born of a virgin. In him the manhood was entirely subject to the Divinity. "He took not on him the nature of angels, but he took on him the seed of Abraham." There was in him no corruption, and the spirit of evil had no power over him. Being "in all points tempted like as we are, yet without sin," (Heb. iv. 15.) "a man approved of God by miracles, wonders, and signs, which God did by him." (Acts it. 22.) His powerful preaching, his wonderful miracles, his patience under suffering, and his triumphant resurrection, are to be attributed to the Divine Word, or "Spirit of the Lord," which dwelt in him, for He said, "The Father that dwelleth in me, he doeth the works." (John xiv. 10.) The Divinity of Christ is his life and light—the indwelling of Divine power—the Word or Spirit which was and is manifested in him, and which through him gives life to all his members, for "it pleased the Father that him should all fulness dwell," and "of his fulness have we al advent, and 2dly, through all time in the ministrations of his spirit. — Salvation by Christ. The great work of the Mossiah for the salvation of the world is beautifully portrayed in the passage which he read from Isaiah in the synagogue at Nas reth. "The Spirit of the Lord is upon me because he hath anointed me to preach the clospel to the poor; he hath sent me to heal the broken-hearted, to preach deliverance to the captives, and recovering of sight to the blind, to set at liberty them that are bruised, to preach the acceptable year of the Lord." "And he began to say unto them, This day is this scripture fulfilled in your cars." (Luke iv. 18-21.) He came to establish a spiritual kingdom of Truth and Love in the hearts of mankind, and thereby to put an end to the kingdom of evil. Then was laid the foundation on which succeeding generations have built, and no moral reform of value or permanency can take place unless it kingdom of evil. Then was laid the foundation on which succeeding generations have built, and no moral reform of value or permanency can take place unless it be founded on Christian principles. It is the life of God, or "Spirit of Truth," revealed in the sonl, that purifies and saves from sin. When Jesus told the people, "Except ye est the fleeh of the Son of man, and drink his blood, ye have uo life in you," he did not allude to the fleeh and blood of his outward body, but to the life and power of God which dwelt in him and spake through him.—Regeneration. It was declared by our Lord, "Except a man be born again he cannot see the kingdom of God." (John iii. 3.) This new birth is the development of the spiritual nature in man through the operation of the Iloly Spirit, and it is subsequent to that of the carnal nature, for "that was not first which is spiritual, but that which is natural; and afterward that which is spiritual." (1 Cor. xv. 46.)—There is implanted in every soul a germ of divine life, compared by the blessed Jesus to a grain of mustard-seed, which is among the smallest of seeds. By yielding obedience to the gentle intimations of Divine grace, or to those stronger convictions, called "the reproofs of instruction which are the way of life," a vital change takes place.—Christian Perfection is neither more nor less than unreserved obedience to the divine will, through perfect love to God, which preserves the soul from the practice of sinning.—Rantizm. It appears to have been the creat love to God, which preserves the soul from the practice of sinning.—Baptism. It appears to have been the great work of George Fox and the early Friends, to draw the attention of mankind from a reliance upon the outward form, to an experience of the inward power of religion.

They believed that the kingdom of Christ is the reign of God established in the soul, and that his baptism and supper are not material, but spiritual; being the substance typified by the "divers washings" under the law, the water-baptism of John, and the Jewish passover.— The principal testimonies of Friends are the following, viz.: A pure spiritual worship. A free gospen ministry. Religious liberty. A testimony against war; oaths; slavery; the use, as a beverage, of spirituous liquors; and agoliast vain fashions, corrupting amusements, and flattering titles. S. M. J.—Extracts from Rules of Discipline. If any in membership with us shall blaspheme or speak profanely of Almighty God, Christ Jesus, or the Holy Spirit, he or she ought early to be tenderly treated with... But should any persist in their error, or deny the divinity of our Lord and Saviour Jesus Christ, the immediate revelation of the Holy Spirit, or the authenticity of the Scriptures, it is manifest they are not one in faith with us.... (p. 27.) We earnestly advise... the reading of the Scriptures, which set forth the miraculous conception, birth, holy life, wonderful works, blessed recurrection, ascension, and mediation of our Lord and Saviour Jesus Christ, and that Friends educate their children in the belief of those important ruths, as well as of the inward manifestation and operation of the Holy Spirit, (p. 100.)—For further exposition of the doctrines of Friends, the reader is referred to the following: George Fox's Works, 8 vols.; Barclay's Apriogy; Harclay's Catechism; William Penn's Works; Isaac Penington's Works; Bournas on the Ministry; Friends Miscellany, by J. & I. Comly, 12 vols.; Thos. Story's Conversations, by N. Richardson; History of Friends, by S. M. Janney, Life of Wan. Pran, by S. M. Janney; Discipline of Friends; Conversations on

of our Lord and Saviour Jesus Christ, and that Friends educate their children in the belief of those important truths, as well as of the inward manifestation and operation of the Holy Spirit, (p. 100.)—For further exposition of the doctrines of Friends, the reader is referred to the following: George Fox's Works, 8 vols.; Barclay's Catchims; William Penn's Works; Isaac Penington's Works; Bosenas on the Ministry; Friends' Micsalany, by J. & I. Comly, 12 vols.; Thos. Story's Concersations, by N. Richardson; History of Friends, by S. M. Janney, 4 vols.; Life of George Fox, by S. M. Janney, 11/6 of Was. Pran, by S. M. Janney. Discipline of Friends; Concersations on Religious Subjects, by S. M. Janney.

FRIENDS, or QUXERS, ("Orthodox.") The organization of the Friends as a distinct society or church was not the result of any deliberate design to form a sect. They did not profess to establish a new religion, or claim to there establish a new religion, or claim to have discovered any new truth. Their object was the revival of primitive Christianity. Especially they were led to call the attention of the people to the Holy Spirit as the living and infallible Guide, as a precious and glorious reality. They never held the doctrine of the Spirit as a mere theory, or ignored the great truth that this unspeakable gift proceeded from the adorable Giver, and was consequent upon the death and vicarious sacrifice of Him who for our sakes laid down his life upon Calvary. They always regarded the close connection of cause and effect as described in our Lord's words; "I tell you the truth; it is expedient for you that I go away; for if I go not away, the Comforter will not come unto you; but if I depart I will send him unto you." (John xvi. 7.) This truth George Fox began to teach and preach, not as an invention of his own, but as a priceless jewel thrown aside, and hidden under the rubbish of dogmas and forms. The Divine Spirit asserted Himself almost simultaneously in the hearts of many contemporaries, who were ready to respond t successors. The Divinity of our Lord was not called in question by the teachers of that day, whilst the guidance of His Spirit, the light of Christ in the conscience, was denied or ignored; and hence the prominence given to the latter truth, and the comparative silence respecting the other, in the controversial writings of the early Friends. The epithet "Quakers" was given in derision, and has been rather submitted to than accepted by them; their name, as a body, is The Religious Society of Friends. The Society embraces a membership of about 80,000, and consists of twelve Yearly Meetings, which are, in a sense, diocesan, having each a defined territorial jurisdiction. The oldest of these is that of London, the records of which are preserved from the year 1672. There are settlements of Friends in France, Germany, Norway, and several parts of Australasia, all acknowleding subordination to the London Yearly Meeting. In the ministry of the Word, no Friend, who is true to the principles of the Society, will speak without feeling a direct call and movement of the Holy Spirit for the service. Elders are appointed, who are believed to be prudent persons, and it is their duty to counsel, foster, and aid the ministers, and either to encourage or restrain the vocal offerings of those who attempt to speak in this capacity, according as they are or are not believed to be called of God to the work. No system of theologic training as a preparation for the ministry is known or could be permitted among the Friends. They are favorable to education, and provide for its free extension to the children of poor members; but they regard it as the exclusive province of the Holy Spirit to select His own ministers, and to instruct them what they shall say. It is, however, considered the duty of all, and especially of those who stand as ambassadors for Christ, to be diligent and prayerful in the perusal of the Holy Spirit and flippant way, rush into this exercise. A practical recognition of the presidency and headship of Christ in His chu

Trinity, they reverently believe in the Holy Three: the Father, the Lord Jesus Christ, the only-legotten of the Father, by whom are all thing, who is the mediator between God and man, and in the Holy Spirit, who proceedeth from the Father and the Son—Ova Goo, blessed forever. They accept in its fulness the testimony of Holy Scripture with regard to the nature and offices of Christ, as the promised Messiah, the Word made flesh, the atonement for sin, the Saviour and Redeemer of the world. They have no reliance upon any other name. cesteth from the Father and the Son — One Goo, blessee, forever. They accept in its fulness the teatimony of Holy Scripture with regard to the nature and offices of Christ, as the promised Messish, the Word made fleesh, the atonement for sin, the Saviour and Redeemer of the world. They have no reliance upon any other name, no hope of salvation that is not based upon his meritoricous death on the cross. The charge that they deny Christ to be God, William Penn denounced as "most untrus and uncharitable," saying, "We truly and expressly own Him to be so, according to the Scripture." As fully dethey admit his humanity, and that he was truly man, "sin only excepted." They so fully believe in the Holy Spirit of Christ, that without the inward revelation thereof they feel that they can do nothing to God's glory, or to further the salvation of their own souls. Without the influence thereof they know not how to approach the Father through the Son, nor what to pray for as they ought. Their whole code of belief calls for the entire surrender of the natural will to the guidance of the pure, unerring Spirit, "through whose renewed assistance," says one of their writers, "they are enabled to bring forth fruits unto holiues, and to stand perfect in their present rank." As it was the design of Christ, in going to the Father, to send as a comforter His Spirit in Sing the Hather, to send as a comforter His Spirit is bij His Spirit, also, that his followers are enabled to partake of the true supper of the Lord. They have ever regarded war as inconsistent with Christianity. For this they refer to the teachings of Christ and His apostles, to the example of the early Christians, and to the witness for truth in their own conciences, tested and confirmed by the Sacred writings. They consider oaths to be inadmisable, as being positively forbidden by our Lord in language not to be mistaken, and this treatimony was made the occasion of inflicting severe pensities upon the extending fashion. As a natural result, a degree of uniformity of entirely distinct societies now exist, each claiming exclusive right to the same name, and causing confusion among other professors as to their identity. At the present day they, with the other body of similar name, are performing eminent service to the freed people of color, and to the Indian races—the latter in pursuance of a trust reposed in them by the General Government. In all the Yearly Meetings the system of Scriptural, or First-day, schools is cherished, and in a number of them these are under the official care of the Church, and the subject of annual statistical reports to the Yearly Meetings. In one Yearly Meeting there are 115 such schools, with 6,963 pupils; in another, 63 such schools, with 6,170 pupils. For religious and secular education combined, there are a number of large boarding-schools under the care of the Society, and the important colleges of Harefrord and Eartham. erford and Karlham

erford and Earlham.

RIENDS, or "QUAKERS," (Orthodox.) believe in one God, the creator of all things; and in one Lord Jesus Christ, by whom are all things, the mediator between God and man; and in the Holy Spirit which proceedeth from the Father and the Son; one God blessed for ever. They believe that Jesus Christ was made a sacrifice for sin, who knew no sin; that he was crucified for mankind; the flesh, without the gates of Jerusalem; that he was buried and rose again the third day, by the power of the Father, for our justification, and that he ascended up into heaven, and now sitteth at the right hand of God,

sur holy mediator and intercessor. They have uniformly declared their belief in the divinity and manhood of the Lord Jesus: that he was both true God and perfect man, and that his sacrifice of himself upon the cross was a propitation and atonement for the sins of the whole world, and that the remission of sins which any purtake of, is only in, and by virtue of, that most satisfactory sacrifice. They believe in the Holy Spirit, the promise of the Father, whom Christ declared he would send in his name, to lead his followers into all truth. A manifestation of this Spirit is given to every man to profit withal; that it convicts for sin, and, as obeyed, gives power to the soul to overcome and forsake it; it opens to the mind the mysteries of salvation, enables it savingly to understand the truths recorded in the holy Scriptures. They believe that the saving knowledge of God and Christ cannot be attained in any other way than by the revelation of this spirit. But while the Society believes the lost and undone condition of man in the fall, it does not believe that mankind are punishable for Adam's sin, or that we partake of his guilt, until we make it our own by transgression of the divine law. As many as resist not the light of Christ Jesus, but receive and walk therein, it becomes in them a holy and spiritual birth, bringing forth righteousness, by which holy birth, viz. Jesus Christ formed within us, and working his works in us, as we are sanctified, so we are justified in the sight of God. Therefore, it is not by our works wrought in our will that we are justified, but by Christ, who is both the gift and the giver, and the cause producing the effects in us. If justification be considered in its full and just latitude, neither Christ's works without us, in the prepared body, nor his work within us, by his Holy Spirit, is to be excluded; for both have their place and service in our complete justification. By the proplitatory sacrifice of Christ without us, we, truly repenting and believing, are, through the mercy of Lord and one faith, so there is but one baptism, of which the water-baptism of John was a figure. Respecting the communion of the body and blood of our Lord Jesus Christ, the Society of Friends believes that it is inward and spiritual. They believe that worship must be in spirit and in truth; an intercourse between the soul and its great Creator; it is their practice to sit down in soloun silence to worship God, that each one may be engaged to gather inward to the gift of divine grace. In relation to the ministry, they hold that the authority and qualification for this important work are the special gift of Christ Jesus, bestowed both upon men and women, and must be received immediately from him, through the revelation of his spirit in the heart. Viewing the command of our Saviour, "freely ye have received, freely give," as of lasting obligation upon all his ministers, the Society has, from the first, steadfastly maintained the doctrine that the gospel is to be preached without money and without price, and has borne a constant testimony against a man-made hireling ministry, without money and without price, and has borne a constant testimony against a man-made hireling ministry, which derives its qualification and authority from human learning and ordination. The Society of Friends believes that war is wholly at variance with the Spirit of the gospel, which continually breathes peace on earth and good-will to men. In the same manner the Society believes itself bound by the express command of our Lord, "Swar not at all," and therefore its members refuse, for conactence's aske, either to administer or to take an oath. The Society has long borne a testimony against Slavery; and likewise against the unnecessary use of intoxicating liquors. F believe civil government to be God's ordinance. While they feel themselves restrained by the pacific principles of the gospel from joining in any warlike measures to pull down, set up, or defend any particular government: they consider it a duty to live peace-ably under whatever form of government it shall please ticular government: they consider it à duty tollive peaceably under whatever form of government it shall please
Divise Providence to set up over them. In conformity
with the examples of the apostles and primitive believers,
the Society enjoins upon its members an unostentatious
mode of living; moderation in the pursuit of business,
and that they discountenance all unprofitable amusementa, as well as the changeable fashions of the world;
that, daily living in the fear of God and under the power
of the cross of Christ, they may show forth a conduct
becoming their Christian profession. — Extract from
Thos. Ecans, by T. W.

PRINDER, or "QUAKERS"—(original, or primitive "orthodaz,") sometimes styled "of the Smaller Bodies." from

Thos. Beans, by F. W.

PRINTING, or "QUAKERS"—(original, or primitive "orthodox." They allege that they stand on the adherents of Joseph John Gurney, or modernized with the satherents of Joseph John Gurney, or modernized with the satherents of Joseph John Gurney, or modernized major of the society; believing, without reserved in the proposed on the proposed on the satherents of Joseph John Gurney, or modernized of the society; believing, without reserved in the prepared body; his miraculous birth, divine him the prepared body; his miraculous birth, divine the prepared body; his miraculous birth, divine the satherents of Joseph John Gurney, or modernized of the society; believing, without reserved.

Priemd'ship, in Indiana, a post-office of Ripley co.

Priemd'ship, in Maryland, a post-village of Anne Arundel co., abt. 25 m. 8. of Annapolis.

Priemd'ship, in Mississippi, a post-office of Frankling in Mississippi, a post-office of Frankling.

sonship, and propitiation for our sins; and also in his needful work of sanctification through the inward effectual cleansing operations of his Spirit, by which alone we can be enabled to lay hold of the benefit of his atoning sacrifice for sin; in his immediate guidance of his followers into all truth, by his inward light and grace, as their primary rule of faith and practice; in the divine authority of the Holy Scriptures, as a true record of the ways of the Lord with his people in days past, and a secondary rule for our instruction in righteousness, subordinate to His Spirit which gave them forth; and in all the other Christian doctrines held by Fox, Penn, Barclay, Penington, and the other early F.:—while both of the other classes claiming the name of F. have departed from some of the essential grounds of their profession by officially sanctioning, or conniving at, the promulgation of views at variance with those held by F. in the beginning. Thus, they charge those called "Hicksites" with being, as a body, involved in the unsound doctrines of Elias Hicks, such as his views on the divinity and miraculous birth and atonement on the cross of our Lord Jesus Christ; the authority of the Bilble, &c., as developed in his Srmons and printed Letters; they having separated in 1827 and 1828, on the ground of disunity with the opposition made to him, and having never disavowed his well-known doctrines. (See Declaration of Philad. Yrarly Mg. &c., 1828.) On the other hand, these F. charge the generality of those called "orthodox." with being implicated in a no less fundamental departure, by being engaged, or remaining in connection with those engaged, in the promotion of the modernized views and practices originally and mainly developed in the Society, by the publications of J. J. Gurney and others in England. The tendency of his writings was to bring in an easy, self-pleasing and popular system, discarding the clear and unequivocal belief of the ancient F. in the universal and saving light of Christ, as stated by Braclay sonship, and propitiation for our sins; and also in his needful work of sanctification through the inward effectual cleansing operations of his Spirit, by which alone we can be enabled to lay hold of the benefit of his atoning sacrifice for sin; in his immediate guidance of his City. cation to depend very much on a superficial or historical belief in Christ's incarnation and crucifixion, to the disparagement of the absolute necessity of an experience of His inward work also, to make the former individually availing; setting up the Scriptures as the primary rule of faith and practice (contrary to their own testinony); designating faith as a "faculty of the human mind," and the first day of the week as "the Christian Sabbath;" advocating the notion of a resurrection of the same bodies; charging the early F. with various mistakes of interpretation of Scripture involving important doctrines; and generally pronoting in the society a system of religion founded on intellectual study, instead of the thorough humiliation and purification of the soul, and its enlightenment by the inward light and grace of Christ; a system of self-activity, "always ready," instead of self-absement and waiting on the Lord; of "religion made easy" to the carnal mind, instead of a constant bearing of the cross of Christ. Thus, these "Smaller Bodies" of F. believe it needful to maintain, without any modification, the primitive and ancient ground, acknowledging Christ both in his outward and inward work for man's salvation; while the "Hicksites" are defective as to the outward, and the "Gurney" party as to the inward; each thus, on opposite sides, failing short of a living, acceptable, and full "confession of Jesus Christ come in the fiesh." These things, they say, have been clearly and publicly proved, and the proofs have never been invalidated, but only ignored or evaded. The Yearly Meeting of Philadelphia at first opposed the innovations in doctrine; (see its Appeal for the Ancient Doctrines, &c., 1847, and its Report of Facts and Causes of the Division in N. E., 1849;) but at length, through the influence of a party resolved at all hazards to prevent division, it compromised its position, succumbed to the pressure from within and without, declined to take any practical step to stay the progress of the "Gurney" defectio

Friend'ship, in Ohio, a post-office of Scioto co.
Friend'ship, in Texas, a post-office of Harrison co.
Friend'ship, in Wisconsin, a post-village, capital of Adams co., abt. 72 m. N.N.W. of Madison.

— A township of Fond du Lac co.
Friend's Station, in Tennessee, a post-office of Jefferon county.

ferson county

ferson county.

Friends'ville, in Illinois, a post-village of Wabash co, about 8 m. N. by W. of Mount Carmel.

Friends'ville, in Maryland, a village of Alleghany co, about 40 m. W. of Cumberland.

Friends'ville, in Ohio, a post-office of Medina co.

Friends'ville, in Pensaylvania, a post-borough of Susquehanna county, about 140 miles N.N.E. of Harrisburg.

susquelanna county, about 140 miles N.N.E. of Harrisburg.
Friends wille, in Tennesse, a post-village of Blount co
Friends wood, in Indiana, a P. O. of Hendricks co.
Frien, n. One who fries.
Friende, Friesish, (Irectic, free sish.) a. (Geog.) Of, or
pertaining to, Friesland.
Friende, (free land.) a prov. of the Netherlands, on
the N.E. of the Zuyder-Zee. It is bounded N. by the
German Ocean, and W. and S.W. by the Zuyder-Zee;
area, 1,260 sq. m. The land is flat; and some of it being
below the level of the sea, is protected by dykes. It is
intersected by many canals and streams, and abounds in
lakes and marshes. There are some forests; but peat is
the chief fuel used by the inhabitants. Many. Linen and
woollen fabrics. Cup. Leeuwarden. Pop. (1895) 341,050.
Friend, (East.), an old principality of Hanover,
now almost included in the dist. of Aurich., q.v.
Frience, (friz) n. [W. firis, a nap of cloth.] The nap
on woollen cloth; a kind of coarse woollen cloth or stuff,
with a nap on one side.

Frieze, (friz.) m. [W. ffriz, a map of cloth.] The nap on woollen cloth; a kind of coarse woollen cloth or stuff, with a map on one side.

—(friz.) [Fr. frize; It. frizo, perhaps from Lat. Phrygius, because the ornaments of friezes resemble the embroideries which came from Phrygia.] (Arch.) That portion of the entablature which is between the architrave and the cornice. (See Fig. 650.) It was generally adorned with triglyphs in the Doric order, the intervening spaces, called matopez, being filled with sculptured figures in alto-relizeo, or with the skulls of oxen and wreaths alternately; while in the Corinthian and Composite orders it was ornamented with figures or scroll-work in low relief, extending along its entire length. The term frieze was also applied to a broad band of sculpture, in low relief, that was frequently placed round the cella of a Grecian temple, immediately under the ceiling of the portico, and completely surrounding the exterior. In modern domestic architecture a F. is frequently introduced immediately below the cornice of an apartment.

Frieze, v. a. To form a nap on cloth; to frizzle; to curl. Friezed, (frizzl, a. Napped; shaggy with nap or frieze. Friez'ers, m. He who, or that which, friezes.

Friez'ers, m. He ho, or that which, friezes.

Friez'ers, (fright), n. [Fr. frigate.] (Naval.) A ship of war having two gun-decks, classed between a sloop-of-war and a ship-of-the-line, or line-of-battle ship, and carrying an armament varying from 20 guns up to 80,



Fig. 1074.—STEAM-FRIGATE OF 1850.

which latter number is seldom exceeded. In naval which latter number is seldom exceeded. In naval operations frigates were peculiarly useful vessels, being generally swift sailers and capable of easy tacking during action, besides bringing to bear on an enemy a heavier battery than sloops or brigs. Frigates were, until the last half of the present century, almost exclusively sailing vessels; few or none of this character now remain. Steam frigates were in use later, but the term frigate has now almost entirely disappeared from naval nomenclature, the terms cruiser, gasboat, &c., being substituted for the old terminology.

naval nomenciature, the terms cruser, geneous, etc., vening substituted for the old terminology.

Frigrate-bird, Manor-war Birn, s. (Ornith.) The Tuckspedes agaida, a bird common on the intertropical American coasts and in the Atlantic and Pacific oceans. It belongs to the order of the Natatores, and is allied to the Cormorants, but differs from them by having a forked

belly white, and the beak red. The frigate-bird is incapable of either swim-ming or diving; yet it manages to satisfy its natural appe-tite for fish with



Fig. 1075. — PHIGATE-BIRD. (Tachypedes aquila.)

tite for non-wise tolerable certainty; this is accomplished by a system of highway robbery, perpetrated on such gannets and sea-wallows as may be returning with full pouches to their nests in the rocks. The common mode is for the F.B. to sear than plunging down, to strike it

as may be returning with full bouches to their nests in the rocks. The common mode is for the F-B. to soar above its victim, and then, plunging down, to strike it on the head with its beak,—the result is an instant disgorging of the day's fishing, which, as it falls, is followed by the robber, who invariably overtakes and secures it before it resches the water. The nest of this bird is usually built among the rocks, on solitary islands, or in high trees in retired situations near the sea. It lays 2 pinky-white eggs.

Frigations, n. (Naul.) A small Venetian vessel, built with a square stern, without any foremast, having only a mainmast and bowsprit.

Frigento, or Fricento, (fre-tshen'to,) a town of S. Italy, prov. Arellino, 17 m. E.N.E. of Aveilino. It has a fine cathedral, containing some excellent paintings. Its inhabitants subsist by the sale of sleep, hogs, and corn. Near it is a vailey, supposed, apparently on good grounds, to be identical with the Amsancti valles of Virgil. It is narrow, and pressed in on both sides by high ridges thickly covered with oak-copses. The bottom of the dell is bare and arid. In the lowest part, and close under one of the hills, is an oval pool, not 50 feet in diameter, in which the water boils and spouts up, at irregular intarvals, to a height of several feet, with a hissing noise, accompanied by strong sulphurous and mephitic exhalations. It was through this orifice that the Fury Alecto descended to Tartarus; and the appearance of the place corresponds perfectly with the admirable description given by Virgil (Ened. vii. 563): ance of the place corresponds perfectly with the admirable description given by Virgil (*Eneid*, vii. 563):

"Est locus Italia in medio sub montibus altis, Nobilis, et famá multis memoratus in oris, Amsancti valles."

Frig'eratory, n. A refrigeratory. (n.)
Frig'ga, Friga. (Scand. Myth.) See Odin.
Fright, n. [A. S. fyrhto; Ger. furcht; Dan. fryght;
Goth. faurht; allied to Gr. phritto, to shiver or tremble Goth. faurht; alled to Gr. phritto, to shiver or tremble with fear, phri-kć, a shivering or shuddering from cold or fear, and to rhipo, frost, cold, and Lat. rigoc, to be stiff or numb.] Sudden and violent fear, a passion excited by the sudden appearance of danger; affright; alarm; terror; consternation; dismay.

Fright, or Fright'ene, v. a. [A. S. frihtan; Ger. fürchten; Goth. faurhtan.] To alarm suddenly with danger: to shock suddenly with the approach of evil; to affright; to terrify: to scare: to intimidate.

Fright'ed, or Fright'ened, p. a. Terrified; suddenly alarmed with danger.

Fright'fully, a. Full of fright; full of something which causes fright or terror; exciting alarm; impressing terror, terrible: dreadful; alarming: fearful; awful; horrible.

Fright'fully, ade. In a frightful manner; terribly; dreadfully; shockingly.

Fright'tulmess., n. The quality of being frightful, or of impressing terror.

dreadfully; shockingly.
Fright'Inlmess. n. The quality of being frightful, or of impressing terror.
Fright'less. a. Without fright.
Fright'less. a. Without fright.
Fright'less. a. Liat. frigudus, from frigeo, to stiffen with cold: akin to rigeo, to be numb, also to Gr. phrissō, to shiver with cold.] Cold; cool; chill: wanting heat or warmth.—Wanting warmth of affection; unfeeling.—Wanting vigor: impotent.—Unanimated: wanting vivacity or spirit; wanting the fire of genius or fancy; dull; wanting zeal; lifeless.—Stiff; formal; forbidding. Frigidarium n. [Lat.] (Antiq.) The cold bathing-room in the Roman baths, as well as the vessel in which the sold water was received. The cold bath, the reservoir of cold water in the hypocaustum or stove-room, was termed ahenum frigidarium.
Frigid ity. n. [Fr. frigidité, from L. Lat. frigiditas.] State or quality of being frigid; coldness; want of warmth.—Impotency; imbedility; dulness.—Coldness of affection; want of animation or intellectual fre.
Frig'id ity. an. Coldly; dully; without affection.
Frig'id ity. no. Ser Zonz.
Frigorifics.—Irigus, frigoris, cold, coldness, coloness, and facto, to make.] Causing cold; producing or generating cold; cooling.
Frill. N. [From frieze, to curl, to crisp.] A crisped or

ness, and Jaco, to make.] Causing cour; producing or generating cold; cooling.

Frill, n. [From frieste, to curl, to crisp.] A crisped or plaited edging of fine linen on the bosom of a shirt or other similar thing; a ruffle.

-v. a. To decorate with frills or ruffles.

-v. n. [From Fr. frileux, chilly.] To quake or shiver with cold

with cold

Frilled, p. a. Decorated with frills or ruffles; having fries; as, a frilled night-gown.

tail, short feet, the membranes of which are very deeply notched, an extraordinary spread of wing, and a beak, both mandibles of which are curved at the tip. The plumage is on the upper parts purple-black, the throat and leading the control of th

FRIN

(Opt.) One of the colored bands resulting from dif-

raction.

-c. To adorn or border with fringe or a loose edging.

Fringed, p. a. Bordered with fringe.

Fringe-less, a. That has no fringes.

Fringe-like, a. Resembling fringe in shape or appearance.

pearance.
Fringe-maker, n. A manufacturer of fringes.
Fringil'in, n. (Zoil.) A genus of incessorial birds; the

Fringil'a. n. (Zoil.) A genus of incessorial birds; the CHAPTINCH, q. v.
Fringilla'ecous, a. (Zoil.) Belonging or relating to birds of the family Fringillide. p. p. (Zoil.) The Fluch and Sparrow family, an extensive family of birds, order Incessores, often described under the general name of Finches, and including various minor groups, consisting of several genera more or less closely related to one another, as the Grosbeaks, Buntings, Crossbilla, Sparrows, and the like. None of them are of large size; and in their habits and general appearance they bear a very strong relationship.



Fig. 1076. — ARKANSAS FINCH, (Carpodacus psaltria.)

Fig. 1076.—ARKANSAS FINCH, (Curpodacus psaltria.)

They feed chiefly upon various kinds of grain and seeds; occasionally also upon insects. They are for the most part hardy birds, and do not quit this country during the winter; but some few are driven hither at that season from more northern climates. Many of the Fringillida are remarkable for their powers of song; others are highly prized for the delicacy of their fiesh. They frequent fields, groves, hedgerows, and woodlands; while many, in a state of captivity, are rendered subservient to the amusement and gratification of man. The most important members of this innumerable family will be found in this work under their proper names. In this place we shall only give two species, as illustrations of the family. The Arkansas Finch (Curpodacus psaltria), (Fig. 1070), of the Southern Rocky Mountains to the coast of California, is 4½ inches long; the wing, 2½ inches; the upper parts olive-green, the head, wings, and tail black; beneath, bright yellow. The common Sparrow (Pyrgita domestica), (Fig. 1077), the true type of the Finch tribe, is a European bird, one of the most omnivorous of all birds, and has been lately successfully introduced into this country. It is nearly six inches in length, of a robust form; bill dusky; eyes hasel; the top of the head and back part of the neck and gray; the throat, fore part of the neck, and space around the eyes black; the cheeks whitish; the breast and all the under parts pale ash; the back, scapulars,



Fig. 1077. — COMMON SPARROW, (Pyrgita domestica).

and wing-coverts are reddish-brown, mixed with black the latter tipped with white, forming a light bar across the wing; tail brown, edged with gray, and rather forked; legs pale brown. The plumage of the female is plainer and duller than that of the male; beyond sech eye there is a line of white, and she has no black patch on the throat. Sparrows are bold and crafty; and their partiality to the vicinage of man does not originate from any social affection on their part, but because their chief subsistence is there most abundantly

originate from any social affection on their part, but because their chief subsistence is there most abundantly to be found.

Fringy, ('riv'je,) a. Adorned with fringes.

Fringy, ('riv'je,) a. Adorned with fringes.

Fringy, ('riv'je,) a. Adorned with fringes.

Fringy, a. Adorned with fringes.

Fringy, a. Adorned with fringes.

Fringy, a. Adorned with fringes.

Rivers. Frio, Leona, Hondo, and San Miguel. Sur'jace, level; sod, fertile. Cap. Pearsall. Pop. (1890) 3,112.

Frip'per, Frip'perer, a. [Fr. friper.] A dealer in fripper; one who repairs apparel.

Frip'pery, n. [Fr. friperic. from friper, to wear to rags.] Old, worn-out clothes; clothes thrown aside after wearing; waste matter; the place where old clothes are sold; the trade or traffic in old clothes.

—Useless things; triffes; trumpery.

—a. Trifling; contemptible.

Frischehaff, (frezh'n-half,) a bay of the Baltic Sea, between Elbing and Königsberg, 58 m. long, and averaging 5 in breadth. It receives the Passarge and Pragel rivers, and two arms of the Vistula.

Frisceur, (frez'ur,) n. [Fr.] A hair-dresser.

Frisceur, (frez'ur,) n. Fr.] I hair-dresser.

Frisceur, (frez'ur,) n. Fr.] Frisit (later called Frisceur) were an ancient Germanic people, who inhabited the artesme porthwert of Chermony, between the monthy of the set terms.

sging 5 in breadth. It receives the Passarge and Pregel rivers, and two arms of the Visula.

Frisems. (frishdns), or Frisif (later called Prisones) were an ancient Germanic people, who inhabited the extreme northwest of Germany, between the mouths of the Rhine and Ema, and were subjected to the Roman power under Drusus. They were subdued by the Franks, and, on the division of the Carloringian empire, their country was divided into W. Frisian (W. Friesland), and E. Frisians (E. Friesland). The language of the Frisians is intermediate between the Angio-Saxon and the Old Norse. Our knowledge of the old Frisian is derived from certain collections of laws; as the "Assegabuch," composed about 1200; the Brokmerbrief," in the 13th century; the Epasiger Domen, about 1300, and some others (See Richthofen's Prisz. Rechtsquellen, Gött, 1840.) The modern Frisian is now spoken only in a few districts, and even in these only by the peasantry; not being used either in the churches or schools. It is further divided into a number of local dialects. Attempts have recently been made to revive an interest in the Frisian, and various specimens of its earlier literature have been published. An excellent Dictionary of the old Frisian, by Richthofen, was published in 1840.

Frisk, v. n. [Allied to brisk; A. S. frician, to dance; Ger. frisch, brisk, trong, fresh; O. Fr. frisque; Danfrisk; radically the same as fresh. See Frazal. To leap; to skip; to spring suddenly one way and the other; to dance, skip, and gambol in frolic and gayety.

Frisk fer, n. One who frisks; a wanton.

Frisk fer, a. Gone who frisks; a wanton.

Frisk fer, a. Gone who frisks; a wanton.

Frisk full, a. Brisk; lively.

Frisk full, a. Gayety; livelinese.

Frisk full, a. Brisk; lively.

Frisk full, a. Brisk; lively.

Frisk f

Frit'ter, n. [Fr. friture, anything fried; It fritella, a pancake, from Lat. frigere, frictum, to fry.] A kind of small paucake fried; a small piece of meet fried; any small piece cut to be fried.—A fragment; a shred; a small piece; a shiver; as, to break into shivers and

a small piece, a service, a small pieces to be fried.—To break into small pieces or fragments; to diminish; to take away, or waste by degrees; as, to fritter away and the service of Parks.

take away, or waste by degrees; as, to fritter away anything.

Frits'towm, in Pransylvania, a post-village of Berks co., abt. 9 m. W.S.W. of Reading.

Frius', (free-orly.) [Ger. Friust; anc. Forum Juki.]

Formerly the name of a district in the extreme N.E. of Italy. It constituted one of the 36 duchies into which the Longobards divided the north of Italy. From an early period, F. was divided into Tyrolese and Venetian F., the former of which came into the possession of the Emperor Maximilian in 1500, while the latter remained attached to Venice till the peace of Campo-Formio (1797), when it was given to Austria. The inhabitants, called Purlani, are for the most part Italian, but make use of a peculiar dialect.

Fritilla ria, Fairil'Laky, n. [Lat. fritillus, a chesboard; alluding to the checkered petala.] (Bot.) A genus of plants, order Liliacce. They are perennial plants, perianth campanulate, with a broad base and nectariferous cavity above the claw of each segment.

stamens as long as the petals. The Crown Imperial, F. imperialis, a native of Persia, is a fine showy flower of culture



Fig. 1078. — CROWN IMPERIAL, (Pritillaria imperialis.)

Fig. 1078.—CROWN IMPERIAL, (Fritillaria imperialis.)
Friveliams, s. Same as Frivolity, q.v.
Frivelity, n. [Fr. frivolit], from Lat. frivolus, trifling.] The state or quality of being frivolous; acts or habits of trifling.
Frivelous, a. [Fr. frivole; Lat. frivolus, trifling. Cf. Gr. phimara, a prater.] Trivial; trifling: slight; petty; silly; empty; as, a frivolus person.—Worthless; of little weight or importance; not worth notice; s. a frivolus remark, a frivolus objection.
Frivelously, adv. In a trifling manner.
Frize, Fries, a. [Fr. friser; It. frisare, to crisp to carl. The word takes its origin from a certain tribe of the Frisians, whose maidens used to dress their hair in ringlets.] To curl; to twist; to form into small curle with a crisping-pin.—To form the nap of cloth into little hard burs, prominences, or knobs.

into little hard burs, prominences, or knobs.

—a. Anything crisped or curied, as a wig.

Pris'ellburg, in Maryland, a post-office of Carroll co.

Fris'elle, v. a. [O. Fris. frislen.] To curl; to crisp, as

-n. A curl; a look of hair twisted.

Frisched, p. a. Curled; crisped.

"With frizzled hair implicit."—Muton.

Frizzier, s. One who curis or crisps hair.
Frizziy, Parzzy, a. Crisped or curied, said of hair, or
the map of cloth.

the map of cloth.

Free, adv. [A.S. fra. See From.] From; away; back or backward; —used only in opposition to the word to; as, to and fro, backward and forward.

Free bisher Strait, a passage between the west side of Davie' Strait and the north side of Hudson's Strait, is 140 miles long, with an average breadth of 20. It extends in Lat. from 62° to 64° N, and in Lon. from 65° to 73° or 74° W. It is not of any practical value as a channel of communication; and, in fact, it has been vary seldom visited by vessels bound either westward or eastward. It was discovered in 1576 by Sir Martin Frobisher, an enercetic English mayigator.

Freek, n. [Fr. froc. a monk's habit; L. Lat. frocus, frocus, the cassock of a monk, with long sleeves, so called, quasi, estis floccous, from floccus, a lock of wool.] An upper coater outer garment made of wool; as a frock of livery, a shepberd's frock.—A loose garment or shirt worn by men over their other clothes to protect them while at labor; a blouse.—A gown worn by females

worn by men over their other clothes to protect them while at labor; a blouse. — A gown worn by females and young children. — A monk's caseock.

Freek'-ceas, a. A coat for men's wear cut and shaped like a surtout, but shorter and lighter.

Freeked, a. Clothed in a frock.

Freek'eda, a. Destitute of a frock.

Freek'chaus, a. bestitute of a frock.

rrow smann, a market-town of England, on the Mersey and Weaver rivers, 12 m. from Chester. Manuf. Cotton goods, and near it are some salt works.

Free, (fro,) n. Same as Frow, q. v.

Freg, a. [A.S. froga, frogga; Ger. frosch.] (Zoil.) See Rasings.

(Farriery.) The hard projecting substance in the hol

(Civil Engineering.) A grooved piece of iron placed at the junction of the rails of a railroad where one track

An oblong button for coats or overcoats, swelling in the -An oblong button for coats or overcoats, swelling in the middle, and tapering to both ends, covered with netted thread, and fastening into a loop instead of a button-hole.

Program, a. (Bot.) See Hydrocharis.

Program, a. (Zotl.) See Batraccius.

Program, a. Abounding in frogs.

Program, a. Abounding in frogs.

Program, a. Abounding in frogs.

Program, a. (Zotl.) See Cerofid.

Programore, in Columbia. Now Prosperity.

Frogramore, in Losisiana, a. P. O. of Concordia parish.

Frogramore, in Losisiana, a. (Zotl.) See Cerofid.

Program, in Misseuri, a post-village of Perry co.

Frogram (froois'sart), Jean, a. French chronicler.

icles which bear his name, and which present, perhaps, the most faithful and animated picture extant of the wars and political events of the Middle Ages. His Chromicles were first translated into English by Lord Berners (2 vols. fol., London, 1623-5), and reprinted in 1812 in 2 vols. 4to. A later edition is that of Bohn, London, 2 vols. royal 8 vo. 1845.

Frol'1e, a. [Ger. fröhlich, from froh, glad, and lich, corrupted from glach, like.] Full of levity; dancing, playing, or frisking about; full of wild pranks.

"We fairles now are frolic."—Shaks.

—n. A wild prank: a flight of levity or gravety and mirth:

A wild prank; a flight of levity or gayety and mirth;
 a gambol; a freak;
 a scene of mirth and gayety, as in dancing or play.
 n. To play wild pranks;
 to play tricks of levity, mirth,

-c. n. To play wild pranks; to play the same as frolicsome, q. v. Frol'icking, p. a. Playing pranks; folicsome. Frol'icking, p. a. Playing pranks; folicsome. Frol'icsome), a. Full of gayety and mirth; given to pranks. Frol'icsomeneys, adv. With wild gayety. Frol'icsomeness, n. Gayety; wild pranks. From, prep. [A.S. fram, from; Fris. fram; Dan. fra; O. Ger. and Goth. fram; Sansk. param, the highest; Lat. primus, the first.] This preposition expresses the idea of distance or remoteness in relation to a source or beginning, and likewise of departure or procedure; as, man is descended from Adam, he wont from Philadelphia to New York, matters proceeded from bad to worse. The sense of from is literal or figurative, but it is uniformly the same. In certain phrases, generally or always The sense of from is literal or figurative, but it is uniformly the same. In certain phrases, generally or always elliptical, from is followed by certain adverbe, denoting place, region, or position indefinitely, no precise point being expressed; as, from above, from beneath, from before, from behind, &c. From precedes another preposition followed by its proper object or case; as, from among, from beneath, from beyond, from afar, &c.

Afar, Ac.
Frome, (from.) the name of several rivers in England.
1. An affluent of the Lugg in Herefordshire. 2. In the county Dorset, rising near Bedminster, and falling into the sea at Poole harbor. 3. A branch of the Avon at Bristol. 4. One of the Severn, near Berkeley. 5. A stream of Somersetshire, rising in the Mendip Hills, and joining the Avon between Bath and Bradford.
Frome, or Frome-Selwood, a town and parish of Somerset co., England, 11 m. S. by E. of Bath, and 115 m. W. of London. Many. Broad-cloths, kerseymeres, ale, &c. Pop. 11,732.
Fromd, n. [Lat. froms, frondis, a leafy branch.] (Bot.) The less of a fern or other acotyledonous plant. F are seldom articulated; they are either sessile or stalked; are frequently toothed or incised in various ways, and are often highly compound.

are often highly compound.

ronda'tion, n. [Lat. frondatio, from front. See
SUPRA.] The act of denuding, or stripping of leaves or
branches.

Supra.] The act of denuding, or stripping of leaves or branches.

Fromdle, n. [Fr., a sling.] (Fr. Hist.) The name of a political faction which played a conspicuous part in French history during the minority of Louis XIV., and which gave rise to the celebrated insurrectionary movement known historically as the War of the Fronde. The members of this party obtained the derisive name of Frondeurs (slingers), from the pertinacious lampoon warfare which they waged against both the powerful minister of that day, Cardinal Mazarin, and the Queen Regent, Anne of Austria. Mazarin, as a foreigner and a parvenu, enjoyed the detestation of the French people—both patrician and proletarian—and especially had incurred the opposition of the Parliament of Paris to his measures. In 1648 Mazarin ventured on the bold step of arresting two of the most popular members of the latter body, and on the next day (la journée des barricades) the Parlisians rose in arms, dispersed some of the royal troops sent out against them, and barricaded the approaches to the Louvre, compelling the court party to retire to St. Germain, and thus leaving Paris in the hands of the insurgents. Upon the Prince de Condé advancing to besiege the capital, the parliament called the citizens to arms, when the Prince de Conti, the Duc de Beaufort ("Le Roi des Hallea," and son of Henry IV.), and numerous others of the great nobles of the kingdom, came forward to head the insurrection. The famous Cardinal de Retz also joined the movement, nor was beauty wanting, in the persons of the Duchesses de Longueville and de Montbason, to inspire the popular dom, came forward to head the insurrection. The famous Cardinal de Retz also joined the movement, nor was beauty wanting, in the persons of the Duchesses de Longueville and de Montbazon, to inspire the popular cause. The Prince de Condé, too, changed sides and went over to the malcontents, with whom the court party shortly afterwards patched up a treaty of peace of but brief duration. Fresh contentions arose, and Mazarin caused the arrest of Condé and Conti, two of the princes of the blood. This step on the part of the hated Italian excited a revolt in the provinces, and Marshal Turenne hastened to the rescue of the frondeur princes, but was routed in the battle of Rethel (1660). The Cardinal, however, enjoyed but a mere temporary supremacy; the parliament again agitated against him, and procured his banishment from France, leaving the Prince de Condé master of the situation. Subsequently, the contest degenerated into a war of intrigue. Some of the Frondeur leaders were influenced by the queen to desert their party, and others were bought over by the cardinal's gold. Ultimately, all parties being wearied with these dissensions, the court agreed to remove Mazarin, and a general amnesty was proclaimed. Condé, who refused to be a party to these terms, now finding his cause desperate, entered the Spanish service; while Mazarin, after a time, returned to Paris, and again obtained the reins of government. reins of government.

and poet, s. 1837. He was the contemporary of Chaucer and Petrarch, and the author of the celebrated Chronicites which bear his name, and which present, perhaps, the most faithful and animated picture extant of the form fronders, to put forth leaves. To begin to unfold leave

leaves.

Frondes/cenece, n. [Lat. frondescens, pp. of frondescere. See supra.] The precise time of the year and month in which each species of plants unfolds its leaves. — The act of unfolding the leaf.

Frondiferous, a. [Lat. frons, a leaf or branch, and ferre, to produce.] Bearing or producing fronds.

Frondose', a. (Bot.) Leafy; — or, more commonly now, frond-like, or producing a frond, instead of ordinary follogs.

now, frond-like, or producing a from, mary foliage.

Fron'dious, a. (Bot.) Applied to a flower which is leafy; or to one which produces branches charged with little leaves and flowers.

Frons, n. [Lat., front.] (Anat.) The region of the cranium between the orbits and the vertex.—In ornithology, the space between the base of the bill and the vertex.

Front, (frunt.) n. [Fr., from Lat. frons. frontis, the forehead; probably from Gr. phrontis, care, anxiety, the forehead being the index of these.] The forehead, or part of the face above the eyes; the whole face.

"They stand not front to front, but each doth view The other's tail, pursued as they pursue."—Creech.

"The forehead or face, as expressive of the temper or discrete."—The forehead or The forehead.

The forehead or face, as expressive of the temper or dis-position; as, a flerce front, a hardened front. — The fore part of anything; the van, as of an army or procession. —The part or place before the face, or opposite to it, or to the forepart of anything.

Shot thundered upon them from the rampart in fre The most conspicuous part or particular.

"The most conspicuous part or particular.

"The head and prost of our offending." — Shale.

-Impudence; assurance; as, "men of front." — That portion of a head-fress which covers the fore portion of the head; a partial wig worn by ladies.

(Mil.) That part of an army which directly faces the enemy's position; —opposed to rear.

-v. a. To stand with face toward or opposed to.

"I shall bear the life the cover direct or head."

"I shall front thee like some staring ghost." - Dryde "I shall frost thee like some staring ghost."— Dryden.—To oppose face to face; to oppose directly; as, to front danger, to front an enemy.—To stand opposed or opposite, or over against anything; as, our house fronts the square, the church, &c.—r. s. To have the face or front toward any point of the compass; to be opposite.—To stand foremost.—a. Of or pertaining to the fore part; foremost; as, a front door, a front entrance. Frontinge, n. The front part of an edifice, structure, lot, quay, &c.

lot, quay, &c. rontalis.] Belonging to

the forehead.

(Anat.) The frontal bone of the skull, the Frons, q. v., forms in the male the whole anterior portion of the cranium, extending laterally from the temples, and from the orbits to the parietal, or wall-bones of the skull; in females, however, this bone is generally divided into two by a seam or suture up the centre of the bone.—The frontal sinus is the space between the plates of the frontal bone extending over the eyes and nostrils, and in health adding to the reverberance of two voice; but when affected by inflammation or a severe cold, the thickening of its lining membrane causes that obstruction in speaking known as talking through the nose.

no se.

n. [Lat. frontale, a frontlet.] A front piece; an ornament for the forehead; a frontlet; as, the frontal of a

(Arch.) The hanging with which the front of an altar is covered. —Also, an ornament over a door or pediment.

is overed.—Also, an ornament over a door or pediment. (Med.) A medicine applied to the forehead. From tated, a. (Bet.) Growing broader and broader, and at last perhaps terminating in a right line;—used in opposition to cuspated, which is when the leaves of a flower and in a point. flower end in a point.

Front'ed, a. Formed with a front.

Front'ed, a. Formed with a front.

"Part fronted brigades form." — Milion.

Fronteira, (frontai-erra), a town of Portugal, in the prov. of Alentejo, 14 m. from Estremos. Here, in 1663, the Spaaiards were defeated by the Portuguese under Schomberg. Fip. 2,500.

Fronteinac', Counst, a French soldier, governor of New France, Canada, from 1672 to 1698; b. 1619; d. Quebec, 1698. Parkman's Count F. & New France.

Fronteinac', a co. of prov. of Ontario, bordering on Lake Ontario; area, about 1,342 sq. m. Cap. Kingston.

Fronteira de Tabase (a), (La), a town of Mexico, on the Tabasco river, abt. 3 m. from its mouth.

Frontier, (fronteir), n. [Fr. frontier, from Lat. from, the front.] That part of a country which fronts or faces another country; the boundary; marches; confine; border.

the territory adjacent to the boundary; marches; confine; border.

—a. Lying on the exterior part; bordering; conterminous; as, a frontier village.
—v. a. To compose or form a frontier.

Frontier, in New York, a post-office of Hillsdale co.

Frontiered, a. Guarded on the frontiers.

Frontignam, (frin'in-ydn.) a town of France, dep. Hérault, 12 m. 8.W. of Montpelier; pop. 2,000. Its territory produces a delicious, sweet, muscat wine, often incorrectly called Frontignac.

Fronting, a. Standing with the front towards; front to front, or opposite.

Frontingly, adv. In a facing position; opposingly.

Frontingly, adv. In a facing position; opposingly.

Frontinglece, (fron'tis-pess,) n. [0. Fr. frontispice; L. Lat. frontispicium, from front, the front, and spicere, to view.] An ornamental picture or engraving fronting

Digitized by **GOO** 

FROS

rout let, n. [Dim. of front. Lat. frons, frontis.]
fillet or band worn on the forehead.

'They shall be as frontlets between thine eyes."- Deut. vi. 8.

"They shall be as frontless between thine eyes."—Deut. vi. 8.

(ZOZI,) The margin of the head behind the bill of birds, generally clothed with rigid bristles.

From'tom, n. [Fr., from front; Lat. frons, frontis.] (Arch.) An ornament over a door or pediment; a frontis.] (Arch.) An ornament over a door or pediment; a frontis.] on E.N.E. of Brownsville.

Fromt Royal, in Virginia, a post-village, cap. of Warren co., abt. 140 m. N.N.W. of Richmond.

Fromt-wiew, (front'os.) n. A view or representation of the fore part of an edifice or other object.

Frore, a. [A.S. froren, to freeze. Cf. Ger. gefroren, from frieren.] Frozen; frosty. (o.)

## "The parching air Burns frore, and cold performs the effect of fire."-

Freech'dorf, a village in Lower Austria, rather more than 30 m. from Vienna, and not far from the frontiers than 30 m. from Vienna, and not far from the frontiers of Hungary, on the right bank of the river Leitha; called by the French Frohsdorf. It is celebrated for its spleudid castle, which in recent times has acquired a kind of political importance, from having been, since 1844, the residence of the Duchess d'Angoulème and the rendezvous of the elder Bourbon party. After the death of the duchess it came into the possession of the Comte de Chambord, q. v., who has greatly beautified the interior.

Frosimo'sse, (anc. Frusino,)
a town of Italy, in the States of the Church, built on the slope of a hill above the junc-

slope of a hill above the june tion of the river Cossa with the Sacco, about 48 m. E.S.E. of Rome, on the high-road be-tween Rome and Naples. It is the capital of a delegation of the same name, which is notorious for brigandage.—
The costumes of F. (Fig. 1079) are among the most admired

of Italy.

Frost, n. [A.S. forst, Ger. frost, respectively from freefrost, respectively from free-san and frieren, to freeze.] The act of freezing; congela-tion of water or other fluid. "A killing frost." (Shaks.)— Frozen dew; hoar-frost.— That state or temperature of the atmosphere which occa-sions the congelation of wa-ter. serestly cold weather ter: severely cold weather.

"The lagging rear of winter's freet."



Fig. 1079. OF PROSINONE A WOMAR

-The appearance of plants sparkling with icy crystals. "Behold the groves that shine with silver frost."-Pope.

"Behold the groves that shine with silver frost."—Pope.

—e. a. To cover with anything resembling hoar-frost.

Frost'-bearer, n. (Physics) An instrument to exhibit the freezing of water in a vacuum.

Frost'-bize, n. (M.d.) The freezing of any portion of the body by exposure to a high degree of cold. The parts of the body most exposed to the serious consequence of P. are those farthest from the seat of circulation, and the most exposed to a great degree of cold. These are, the toes and feet, fingers, ears, nose, and the cheeks below the eye. The effect of intense cold is, in the first place, to deaden the sensibility of the part most exposed, which it does by contracting the vessels and driving the blood from the surface; when the part, losing its healthy vitality, is unable to resist the specific influence of the surrounding cold, and quickly falls a prey to the potency of the frost, and, in a short time, a partial gives way to an absolute death, or mortification of the member or organ, which soon after separates or falls off. To guard an absolute death, or mortification of the member or organ, which soon after separates or falls off. To guard against the danger of F, the inhabitants of very cold countries, as the Russians and Esquimaux, cover both the cartilage of the ear and the nose. The treatment of F. consists in coaxing back by degrees the vitality of the part; this is most prudently effected by friction, at first with snow, then with water at ordinary temperature, a warmth being annulad for some time. As the coldnowarmth being applied for some time. As the coliness subsides, the painful tingling returns, then redness and heat; in a short time the latter will be above the natural standard, and if not moderated, the part will in-

fame, and perhaps mortify.

Frost'-bitten, a. Nipped; affected or withered by

Frost'-blite, n. (Bot.) The Orach, a plant of the genus Atriple

**Frost'-bound,** a. Bound or confined by frost rost burg, in Maryland, a post-village of Alleghany co., about 10 m. W. of Cumberland.

co., about 10 m. W. of Cumberland.

Frostburg, in Pensylvania, a P. O. of Jefferson co.

Frostburg, in Pensylvania, a P. O. of Jefferson co.

Frost'illage, a village of Lower Canada, co. of Shefford, about 40 m. N.W. of Stanstead.

Frost'ed, p. a. Covered with anything resembling hoar-frost in color or form.

Frost'fish. n. (Zozl.) See Tow-cop, q. v.

Frost'illy, adv. With frost or excessive cold. — Without warmath of affection; coldly. "To praise frostily."

Ben Jonson.

FRUC

freezing cold.

Frost'ing, n. The sugary composition resembling hoarfrost used to cover and ornament cakes, &c.

Frost'icos, a. Free from frost.

Frost'nasia, n. A nail with a prominent head, driven
into a house's shoes that it may pierce the ice, and prevent the animal from slipping.

Frost'-smooke, n. An appearance resembling smoke,
caused by the congelation of the vapor in the atmosphere
in a time of severe cold.

Frost'-weed, Frost-wort, n. (Bot.) See Helianth-

Frost'-work, s. Work resembling hoar-frost on shrubs rost'y, a. Having power to congeal water; containing frost; exceedingly cold; as, a frosty night, frosty weather.—Chill in affection; without warmth of affection or courage.

What a freety-spirited regue is this?" -Resembling hoar-frost; white; gray-haired; as, a frost;

head.

Froth, n. [A.S. freedhan, to rub, to foam; Dan. fraade, allied to Gr. aphros, foam.] Spume; foam; the bubbles caused in liquors by fermentation or agitation.—Any empty, senseloss show of wit or elequence.—Light, unsubstantial matter.

v. a. To cause to foam. v. s. To foam; to throw up spume, foam, or bubbles; as frothing ale

oth'ily, adv. With foam or spume; in an empty, '**roth'ily,** adv. trifling manner.

Froth'iness, s. The state or quality of being frothy

Froth'iness, s. The state or quality of being frothy; emptiness; trifling matter.

Froth'ess, a. Free from froth.

Froth'espit, s. A white froth found on the leaves and in the axils of certain plants during the summer, being the fæces of the frog-hopper; cuckou-spittle; wood-eare.

Froth'-wo-rm, s. Sameas frog-hopper. See Czroorinz.

Froth'y, a. Full of foam; consisting of froth or light bubbles.—Soft; not firm or solid.—Van; light; empty; manhatantal : as #odds language.

Froth'y, a. Full of foam; consisting of froth or light bubbles.—Soft; not firm or solid.—Vain; light; empty; unsubstantial; as frothy language.
Froudle, James Anthony, an English historian, born ISIN, and educated at Westminster and Oxford. He is the author of the Shadose of the Clouds (1847), and the Nemens of Fault (1849); both of which elicited severe exclesization censure. F's fame will, however, rest on his History of England, from the Fall of Wolsey to the Defaul of the Spenish Armada, completed in 1870; its lectures in the U. S. in 1872-73, on The English in Ireland in the 18th Century, 3 vols. (London, 1873-74); Short Stadies on Great Bubjects, third series (N. Y., 1878). Died Oct. 20, 1894.
Frommer, v. a. [Fr. fromcer, to pucker; Sp. francer, to gather in plaits, from Lat. froms, the brow.] To form wrinkles upon; to curl or frizzle, as the hair about the forchead or face; to gather into plaits.

forehead or face; to gather into plaits.

n. A wrinkle, plait, or curl; an ornament of dress.—
(Fulconry.) A word used by falconers for a distemper in which white spittle gathers about the hawk's bill.

FOUN'SY, a. [Du. rrows, a woman; used in the N. of
Rogland in the sense of an idle, dirty woman.] Fetid;
musty; rank; dim; cloudy. (Low.)

FOUN, S. [A.S. fraz; Ger. frau, a wife; Du. erosse, a
woman.] A woman; — more especially a Dutch or Ger-

man woman of the lower orders. Beau. & FL - In the

man woman of the lower orders. Beau. & Pl.—In the N. of England, an idle, dirty woman. (Low.)

Frow, Frower, (fro, froder,) n. An instrument used in splitting staves, laths, &c.

Froward, a. [A.S. frameward — fram, from, and weard, ward.] Perverse; unyleiding; ungovernable; refractory; poevish; disobedient; wayward.

"She's not frowerd, but modest as the dove."—Baks.

Frowardly, adv. Perversely; in a peevish manner. Frowardness, n. Perverseness; reluctance to yield or comply; disobedience; peevishness; petulance. Frowey, (fro'a), a. (Curp.) Applied to timber that is evenly tempered, and works without splitting or tear-in-

Frown, v. n. [O. Fr. frogner, found in se renfrogner, to knit the brows; L. Lat. refrontinare, from frons, frontis, the brow.] To express displeasure by contracting the brow and looking grim or surly; to look stern; to scowl, (with on or al); as, a frozening countenance.

"Heroes in animated marble frozen." — Pope

To manifest displeasure in any manner; to lower; to

look threatening; as, Providence frowns on us.
-e. a. To repel by expressing displeasure in the countenance; to rebuke by a look; as, to frown one into silence —s. A wrinkled look, particularly expressing dislike; a sour, severe, or stern look, expressive of displeasure; a scowl; any expression of displeasure.

Frown'ingly, adv. With a look of displeasure;

Frow'y, Frowsy, a. Same as Frousy, q. v.
Froyen, or Frojen, (frojen), an island of Norway, 50 m. from Drontheim. It is abt. 20 m. long by an average breadth of 5. Lat, 63° 50' N., Lon. 8° 40' E.
Frojen, a. Congesied with cold. — Cold; frosty; chill.

Fro Sen. a. Congessed with cold. — Cold; frosty; chill. — Cold or chill in affection.
Fro Sen Creek, in Kentucky, a P. O. of Breathitt co.
Fro Sen Deess, or the Jor Sea, a ses of Asia extending towards the N. into the unknown regions of the pole. Its boundaries on the E. and W. are considered to be Nova Zembia and Fohutski Noss.

De Nova Zembia and Fodutski Noss.

Fro'zem Straits, between Southampton Island and Melville Peninsula, Lat. 66° N., Lon. 85° W.

Fro'zemmens, n. The condition of being frozen.

F. R. S., Fellow of the Royal Society.

Fruct'ed, a. [Lat. fructss, fruit.] (Bot.) Bearing fruit, as trees.

the first page of a book, or at the beginning.—That part of any body that directly mosts the eye.

(Arch.) The principal face, or front view of a building; the face that directly presents itself to the eye.

Front less, a. Wanting shame or modesty; not diffident; as, frontless flattery, frontless vice.

Front lessly, adv. Shamelessly; impudently; impudently; impudently impudently impudently impudently.

Front lessly, adv. Shamelessly; impudently; impudently impudently

ing season.

Fructic alone, a. Producing much fruit.

Fructider, n. [Fr., from Lat. fructus, fruit, and Gr. doron, a gift.] (Hist.) The name given in the republican calendar of France to the period extending from the 18th of Aug. to the 16th of Sept. The 18th Fructidor of the year 5 (or on the 4th of Sept., 1797) is celebrated as the day on which Barras, Rewbell, and Lepann, members of the Directory, by a coup d'état, awed the republic from the machinations of the Royalista, who had got the upper hand in the Council of Five Hundred. The execution of the coup d'état was intrusted to General Augereau.

ructif'erous, a. [Lat. fructus, fruit, and ferre, to bear.] Producing fruit.

bear.] Producing fruit.

Fructiflen'tiom, n [L. Lat. fructificatio, from fructificare—fructus, and facere, to make.] The act of fructificare—fructus, and facere, to make.] The act of fructifing, or rendering productive of fruit; fecundation.

(Bol.) A term frequently employed in cryptogamie botany, sometimes to denote the whole reproductive system, and sometimes the fruit itself.

"ruc'tify, v. a. [Fr. fructifer; L. Lat. fructificare
—fructus, and facere, to make.] To make fruitful; to
render productive; to fertilize.

"Showers to fructify the earth." - He

To bear fruit.

-c. s. To bear fruit.

Frue\*tosee, n. (\*\*Chem.) Fruit-sugar; the sugar contained in ripe fruits. It has been called, with reference to its characteristic feature, uncrystallizable sugar, and seems to occur in the transition of starch, cellulose, and cane-sugar, into grape sugar. If, in the manufacture of grape-sugar from starch, by boiling with ditute sulphuric acid, the ebullition be checked as soon as the liquid becomes sweet, fructose is formed and no crystals can be obtained. It forms the chief ingredient in molasses and treacle, for though it is not found in the fresh canejuice, the extraction of the sugar occasions its formation at the expense of cane-sugar.

at the expense of cane-sugar.

"ruct'umry, n. [Lat. fructuarius, from fructus, frui
One who enjoys the rents, income, profits, or incres

One who enjoys the rents, income, profits, or increase of anything. (R.)

Fruigal, a. [Fr., from Lat. frugalis—frux, frugis, the produce of the field.] Economical; careful; thrify; provident; economical in the use or appropriation of money, goods, or provisions of any kind; raving unnecessary expense; sparing; not profuse, prodigal, or lavish; as. frugal of time.

Frugal'ity, n. [Fr. frugaliti; Lat. frugalitias.] Predent economy; thrift; good husbandry, or housewifery; a sparing and judicious use of money or anything to be expended; a prodent and sparing use or appropriation of anything.

of anything.

oxpended; a prudent and sparing use or appropriation of anything.

Fru'gally, adv. With economy.

Fru gallwess, n. Rame as Faroality, q. v.

Fru gallwess, n. [Frugard, a district of Finland.]

(Min.) A variety of Vesuvianitz, q. v.

Fruggin, n. [Fr. fourpon; It. forcome, from Lat. furca, a fork.] An oven-fork. (Eng.)

Fruggif'erouss, a. [Fr. frugifer; Lat. frugifer—frux, frugit, the fruit of the earth, and ferre, to bear.]

Fruggit'orous, a. [Fr. frugivore; Lat. frugirorus—frux, frugit, the produce of the fields, and rorure, to devour.] Feeding on fruit, seeds, or corn, as birds.

Fruit, (froot) n. [O. Fr. fruit, Fr. fruit; Lat. fructus, from fruit, to enjoy. Cf. Ger. fruckt.] Produce: whatever the earth produces for the nourishment of animals, or for clothing or profit; the produce of a tree or other plant; the seed of plants, or the part that contains the seeds; production, that which is produced; as, the rising fruit, the forbidden fruit.—Produce of animals; offspring; young; as, the fruit of folly or sin.

"She remembered the fruits of deaying."—Sidney.

"She remembered the fruits of denying." - Sids

Advantage; profit; good derived. The fruits of victory." - Swift.

(Bot.) The term fruit is applied to the ripened ovary and its contents, quite regardless of their being entable or otherwise. In many instances, there are additions to the ovary in the form of the remains of some or all of the ovary in the form of the remains of some or all of the other parts of the flower. In the straubbrry, the calyx remains, and is converted into a succulent sub-stance, or that part of the fruit which is eaten. In the apple, both the calyx and the corolla are converted into fruit. The pine-apple (Fig. 423) is composed of all the parts entering into the composition of the orary, namely, bracts, calyx, corolla, and ovary. The orange is a largely-developed ovary, containing the seeds, and a succulent mass in which the refreshing tuice is placed. Pruit is order, odiyz, corosa, success, in corosay is a ingrejdeveloped ovary, containing the seeds, and a succulent
mass in which the refreshing juice is placed. Proit is
divided into two distinct parts, the seed and the pericarp, or investing substance. The pericarp is composed of three parts, or layers, one within the other.
For example, the pericarp of the apple consists of an
external layer, or skin, epicarp; the internal layer, esdecarp; and the fleshy substance, surcocarp, lying between them. Thus, the outer skin is the epicarp, the
pulpy substance the surcocarp, and the tough, thick
covering to the seeds, the endocarp. The same relation
is found in stone-fruit, the shell of the nut being the
endocarp. The epicarp, or outward covering, is less
subject to variation than other parts; but the surcocarp
and endocarp assume every variety of form and consistence. In certain instances, the arrangement of the
flowers indicates the arrangement of the fruit, as in the
currant, gooseberry, etc. But the blossoms of the apple,
pluss, pea, etc., afford no indication of the various fruits currant gooseberry, etc. But the blossoms of the apple, plum, pea, etc., afford no indication of the various fruits that are to succeed them. The most common forms of

iem. The most common forms of

fult are, the possess or apple, the drupe or peach (Fig. 940), and plass; the glass, as the acorn; the pine-apple, the fruit of which is a scally berry, surmounted by a crown of spinous leaves. This fruit may be considered one of the finest in the world. The legume, or pea; the siliqua, or pea, as in the mustard, and which differs from the legume chiefly in this, that the chamber containing the seeds is divided; the capsule, as in the poppy, larkspare, etc.; and the bacca, or common currant, geoseberry, etc. Besides these leading and distinctive forms of fruit, there are numerous minor variations in their external forms are numerous minor variations in their external forms and internal structures, each of which is described under its proper head.

-e. n. To produce fruit.

Fruit'age, n. [Fr., from fruit; L. Lat. fructagium. Fruit taken collectively; all manner of fruits; a reposi

Pruit taken collectively; all manner of fruits; a reposi-tory for fruit.

Pruit'erer, n. [Fr. fruitier.] One who deals in fruit.

Pruit'ereas, n. A woman who deals in fruit.

Pruit'ereas, n. A round fruit.

Pruit'ery, n. [Fr. fruitier.] Fruit taken collectively; a repository for fruit.

Pruit'ful, a. Very productive: fertile; prolific; bearing children; not barren; abounding in anything; productive of anything: plenteous; abundant; plentiful; as, the fruitful earth, a fruitful garden, a fruitful wife, a fruitful imagination.

Pruit'fully, adv. In a fruitful manner; plenteously; abundantly.

Fruit'fully, adv. In a fruitful manner; pienteoussy, abundantly.

Fruit'fullness, s. Quality of producing fruit in abundance; productiveness; fertility; fecundity; quality of being prolific; productiveness of the intellect; fertility of imagination; exuberant abundance.

Fruit'greve, s. A plantation of fruit-trees.

Fruit'greve, s. A plantation of fruit-trees.

Fruit'sng, s. The production of fruit.

—a. Belonging to, or yielding fruit.

Fruition, (fruit-side)on, fruit, to use or enjoy.] Use accompanied with pleasure, corporeal or intellectual; enjoyment; gratification; the pleasure derived from use or possession.

"Where I may have fruition of her love."—Shake.

Pruit less, a. Destitute of fruit: barren; unproductive; unprofitable.—Abortive; ineffectual; useless; as, a fruitess attempt.—Destitute of offspring; as, a fruite

by manufacturing and the state of one pring; as, a fraction marriage.

Fruit Tensity, adv. Without any valuable effect; idly; valualy; unprofitably.

Fruit Tensiness, n. Barrenness; unfruitfulness; un-

Fruit leasures, n. Barrenness; unfruitfulness; unprofitableness.

Fruity, a. Like fruit, or having a taste similar thereto.

Frumeenta-cooms, a. [Lat. frumentaceus, from frumentum, grain, — contr. from frujimentum, from fruitentum, grain, — contr. from frujimentum, from fruitentum, or similar thereto.

Frumeenta-tions, n. [Lat. frumentatio, from frumentari, to supply with grain or corn. See Supra.] (Rom. Ant.) A general dole or distribution of corn.

Fruitentum, Frunkery, Frunkery, n. [Lat. frumentum,] Food made of wheat boiled in milk, and sweetened by sugar and spices.

Frume's and spices.

Frume's n. [From Fr. froiser, to bruise.] Noise; crash; din, as of things volently dashed together.

(Pir.) Same as Froq. q. v.

Frum's rable, a. [L. Lat. frustrabilis — frustrare, to render useless.] That may be defeated, overcome, or rendered of no effect.

Frus's trate, v. a. [Fr. frustrer; Lat. frustrari, from frustra, in vain.] To disappoint; to defeat; to balk; to bring to nothing; to foil; to make null; to render of no effect.

no effect.

-a. [Lat. frustratus, from frustrari, to render null.]
Vain; ineffectual; useless; unprofitable; null; void;
as, a frustrate search, enterprise, or design.

Frustration; a. [Lat. frustratio—frustrari, from
frustra, in vain, — probably from frust, deception.]
Disappointment; defeat; as, the frustration of a scheme.

Frustration of a scheme.

Frustration of a scheme.

Frustration of a scheme.

In flustum, a piece broken or cut
off.] (Bot.) A term applied to the joints into which the
Diatomaces separate. They contain a large proportion
of siles, and hence, being capable of retaining their form
after the vegetable constituents have fied, they are often
found preserved in a fossil state.

Frustration, a [Lat. probably allied to fraggers: Gr.

found preserved in a fossil state.

Frush's sum, a. [Lat., probably allied to frungers; Gr. rhegresished, to break.] (Geom.) A piece or part of a solid body separated from the rest; the part which remains of a cone, pyramid, &c., when the top part is cut off by a plane parallel to the base. in Fig. 1000 the dotted line cahows the portion of the cone cut off to form the frustum f. frustum f.

Frutes'cemce, n. [Fr., from Latin frutescere—frutex, a shrub or bush.] State of being frutescent, or of becom-

State of being frutescent, or of becoming shrubby.

Frutescent, a. [Fr., from Lat. frutescens. See Suraa.] (Bot.) Shrubby, or having the appearance of a shrub.

Frutesc, a. [Lat., a shrub.] (Bot.) Fig. 1080.

Prutesc, a. [Lat., a shrub.] (Bot.) Frutescent without any supporting trunk; a shrub.

Frutescene. Fruttoous, a. [Lat. fruticosus. See Suraa.] (Bot.) Shrub-like; branching like a shrub.

Frutiescene. Fruttoous, a. [Lat. fruticosus. See Suraa.] (Bot.) Shrub-like; branching like a shrub.

Frutiescene. See Suraa.] (Bot.) Like a small shrub; branching like a small shrub.

Fry. v. a. [Fr. frire; Lat. frigere.] To cook in a fryingpan; to dress with fat, by heating or roasting in a pan over the fire; as, to fry an omelet.

v. v. To be heated and agitated, as meat in a frying-pan;

A kind of sieve.

Fry, ELIABETH, an English philanthropist and prison reformer, B. 1780, was one of the Gurney family, the well-known bankers and merchants of London and Nor-The Gurneys belonged to the Society of Friends

wich. The Gurney but without con-forming to the stricter principles stricter principles of that persuasion with respect to costume, form of language, and so-cial usages. Elizabeth Gurney, accordingly, in the earlier part of her life, freely partook of the gayeties incidental to the circle of life the circle of life in which she moved. In 1798, however, an American Friend, William Savery, then travelling in England on a re-ligious mission, preached in the Friends' meeting-house at Norwich.



Fig. 1081. — BLIZABETH FRY.

preached in the Friends' meeting-bouse at Norwich.

E. Gurney formed one of his congregation, and became so influenced by the preacher's discourse, that she determined to change her mode of life to that prescribed by the more rigid and orthodox of the sect. This change was consummated by her marriage, in 1800, with Joseph Fry, himself a "plain Friend." In 1810 Mrs. Fry joined the ministry, and thenceforward devoted herself to offices of the purest benevolence and plety. Owing to her unwearied exertions, important reforms were effected in the prison systems, not only of Great Britain, but also in those of France and Germany. After years of indefatigable labor among the poor and the criminal, this estimable lady D., Oct. 12, 1845.

Fry. William Henry, a distinguished American composer and journalist, B. in Philadelphia, 1815, in which city his father was proprietor of the "National Gazette" newspaper. F. early showed a singular aptitude for music, and in 1835 produced 4 overtures which were performed by the Philharmonic Society of Philadelphia, who presented the composer with an honorary medal. He next wrote the operas of Aurelia and the Bridal of Denure, two compositions which, though favorably known in the musical world, have hitherto received no stage representation. In 1844, F. became a contributor to the "Ledger" in his native city, and in the course of the year following he brought out his opera of Leconca, an Italian version of which was performed in 1853 in New York. In 1846, F. visited Europe, remaining there 6 years, as the correspondent of several American newspapers, and after his return in 1852 again gave his attention to music, producing several symphonies of great merit, besides composing the music to the inaugural ode for the Great Industrial Exhibition at New York in 1853. In 1855 appeared his next work, a Sadal Mater, brought out at the N. Y. Acad. of Music. He subsequently became attached to the editorial staff of the "N. Y. Tribune," and attained much popularity as a public lecturer. D. 1864.

—A village of Lehigh co., abt. 10 m. S.S.E. of Allentown.

Frye'burg. (fri'burg.) in Maine, a post-village of Oxford co., on the Saco River, abt. 58 m. W.S.W. of Augusta.

Frye'burg Cemtre, in Maine, a P.O. of Oxford co.

Fry'img-pan, n. A pan with a long handle used for frying meat and vegetables.

Fry'ville, in Kentucky, a post-office of Clark co.

F.S. A., Fellow of the Society of Antiquaries. (England).

F. T. C. B., Fellow of Trinity College. Dublin.

Funds, (Mahasd.) Pasha, a distinguished Turkish statesman, a. 1814, was the son of a mollah, or judge, and of the celebrated Leila Khatoun, one of the few Ottoman poeteeses whose works have been printed. F. successively studied medicine at Galata, served in the Turkish navy, and entered the government service as an interpreter. Subsequently he embraced diplomatic life, and, after filling minor positions, was sent, after the Hungarian war, 1848-9, as Minister to Russia. He afterwards became Minister of Foreign Affairs (1856), and Grand Vizier of the empire (1861); retiring from the latter post in 1863, he was then appointed Minister of War, and in 1867, Foreign Minister for the 2d time. P., who published a poem entitled the Albambra, which achieved great popularity, and who bore the reputation of being the most liberal and intellectual statesman Turkey has brought forth, D. 1869.

to suffer the action of fire or extreme heat; to be agitated; to boil.

"The frothy billows fry."—Spenser.

—a. A dish of anything fried; as, lamb's fry.

—(0. Fr. frage; Fr. frai, spawn of fish.] A swarm or crowd of little fish just produced from the spawn.

—He is the tyrant pike, and we the fry."—Donne.

—Any swarm of little animals; or class of people, in contempt.

"The young fry must be kept under the discipline of contempt."

Collier.

Collier.

Fu'age, w. Same as Funage (g.v.).

Fu'age, s. Sam

FUCA.

Fuca 'cese, n. pl. (Bol.) An order of plants, alliance

Algales. The species are numerous, about 500 being
known, mostly growing in salt water. They are distinguished from the
other algae by their
organs of reproduction, which consist

of spores and an-theridia, contained in common chambers or concepta-cles, which are united in club-shaped receptacles at the end or margins of the fronds. The antheridia contain phytozoa. The frond is sometimes a stalk expanding into a broad blade, and sometimes exhibits no such expansion, and is either simple or variously branched. Many of the F are provided with vesicles containing air, by the aid of which they are enabled to float in the water, as Fucus vericulosus antheridia contain



by the and or which they are enabled to float in the water, as Fucus vericulosus (Fig. 1082). Some attain a great size,

— Macrocystic pyrifera is said to have fronds of 500 to 1,500 feet in length; its stem not being thicker than the flager, and the upper branches as slender as packthread. Most of the P. contain iodine in very considerable quantity, and some of them are therefore much used for the manufacture of kep, particularly different species of Fucus, or Wrack, and Laminaria, or Tangle. On account of the soda which they contain, they are also valuable as a manure. Some of thom are eatable, containing large quantities of gelatinous matter, as certain species of Surgassum. The medicinal uses of some of them seem to depend upon the iodine which they contain, and which it is now considered preferable to exhibit in other forms, after it has been extracted. Several species of the genus Fucus contain mannite; as F. veniculosus, modesus, serratus.

Fut'exte, Fut'exted, a. [Lat. fucutus, pp. of fucure, to paint, to color, from fucus, a runge for the cheeks, hence, any disguise or deceit. Painted; disguised with paint.— Disguised by false show.

Fut-chow-foo', in China. See Foo-choo-roo.

Futehasia, (futhe-d.) n. [After Leonard Fuchs, a German botanist of the 16th century.] (Bd.) A genus of S. American plants, order Onagrace. They are distinguished by their long tunnel-shaped four-parted colored calyx, its four petals, its eight exserted stamens, and its long style. There are many distinct species. Foocines was the first introduced into this country, and is now one of our commonest greenhouse and window



Fig. 1083. — SEEDLING PUCHELA, (Chlosme.)

shrubs. It is a very elegant plant: the young wood and nerves of the leaves are tinged with purplish-red; the flowers are produced from the axils of the leaves, and

hang in a most graceful manner by thread-like poduncies; the calyx is tubular, scarlet, and 4-loped in the limb; the petals are of a rich purple color; the stamens are numerous, and, together with the style, form a pretty tassol. Many other species have been introduced into the U. States, one of the most beautiful and newest being Seedling F., or F. Colosus (Fig. 1083); and an immense number of beautiful varieties have been developed by cultivation. The fruits of several fuchsias are somewhat acid, and may be eaten.

Fueline, (Lake or.) or Lako di Colano, (foo-che'no.) the principal lake of Naples, in the province of Abruzzo Ultra II. It is 10 m. long and 7 broad. In 1855 it was commenced to be drained, and upwards of 30,000 acres of soil have been reclaimed. It is the ancient Fueinus Lacus. See Orlonial's work on this subject (Rome, 1877).

Fu'coid, a. [Lat. fucus, see above, and Gr. cidos, form.] (ful.) A fossil resembling a fucus.

Fu'coid, Fucon'A. a. Partaking of the nature of, or resembling, a fucus.

Fu'coid, Fucon'A. a. Partaking of the nature of, or resembling, a fucus.

resembling, a fucus.

Fu'cus, n.; pl. Fu'ci. [Lat., rouge, disguise, deception.]

A paint; a dye; paint for the face; any deception or pretence.

" Women chat - of facus this and facus that."

"Women chat — of facus this and facus that."—B. Jones.

(Bot.) The typical genus of the order of Fucacea, q.v.

Fud'dle, v.a. [Etymol. unknown.] To make tipsy or
drunk; as, fuddled brains.
—v. n. To drink to excess.

Fud'dleer, n. One who habitually drinks to excess.

Fud'dleer, n. One who habitually drinks to excess.

Fud'dleer, h. Stuff; nonsense; — an exclamation of contempt.

—n. A fabrication; a falsehood; a made-up story. (Low.)
—v. a. To fabricate; to devise. — To foist; to put in without warrant.

Fue'go. (Volca'no De.) [Sp., fire-volcano.] A volcano of Guatemala, abt. 20 m. W. of Volcano D'Agua, the

out warrant.

Fue'go. (Volca'no De.) [Sp., fire-volcano.] A volcano of Guatemala, abt. 20 m. W. of Volcano D'Agua, the water-volcano.

Fu'el, n. [O. Fr. fuayl; Fr. fex; from Lat. focus, a hearth.] Any combustible substance which is used for the production of heat constitutes a species of fuel; and in this extended sense of the term, alcohol, wax, tallow, coal-gas, oil, and other inflammable bodies which are occasionally used, especially in the chemical laboratory, as sources of heat as well as light, might be included under it. But the term fuel is more properly limited to coal, coke, charcoal, wood, and a few other substances, which are our common sources of heat, and as such are burnt in grates, stoves, fireplaces, and furnaces. In this country, as in England, coal, from its abundance and cheapness, is the fuel commonly employed; but in other countries, as France, Germany, etc., wood is much used, either in its original state or in the form of charcoal. But whatever substance be used, the essential ultimate elements of fuel are carbon and hydrogen; and the heat which is evolved by their combustion is derived from their combination at high temperatures with the oxygen of the air; the principal results or products of this combustion are carbonic acid and water, these escaping into the atmosphere by the fine or chimney generally attached to furnace; and fireplaces. It is essential to good and profitable fuel that it should be free from moisture; for unless it be dry, much of the heat which it generates is consumed in converting its moisture into vapor: hence the superior value of old, dense, and dry wood, to that which is porous and damp; hence also the greater quantity of heat; avoived during the combustion of charcoal as compared with that of wood, for even the dryest wood always retains a certain partly because during the combustion of heating from 61 to 66 pounds of water from the freezing to teaching a continuation; upon an average, one pound of coal should raise 60 pounds of water from the freezing to its

Combustible.	Pounds of Water which a Pound can raise from 31° to 212°.	Pounds of Boiling Water evaporated by One Pound.	Atmospheric Air at 32° re-	
Dry wood	35.00	6.36	5.96	
Common wood .	26:00	4.72	4 47	
Charcoal	73.00	13:27	11.46	
Pit coal	60.00	10-90	9.26	
Coke	65.00	11.81	11.46	
Turi .	80.00	5.45	4.60	
Coal-gas	76.00	13.81	14.58	
Oil, wax, tallow	78.00	14.18	15.00	
Alcohol	52.00	9.56	11.60	

"Well watered and well fueled." — Westen.
Fureller, Fureler, a. One who, or that which supplies with fring-material.
Fuen'te de Ovelund, (Sp., the sheep-well,] a small walled town of Spain, prov. of Cordova. Manuf. Linens, woollens, and leather. Pop. 6,240.
Fuentes de Onere, (foo-ain'tais dai o-nor'ai.) [Sp., the Fountains of Honor.] A small village of Spain, prov. Salamanca, on the Portuguese frontier, 16 n. W. of Cludad Rodrigo. Here, on the 5th of May, 1811, took place between the Anglo-Spanish army under Wellington, and the French under Massens, a battle in whiten entitler army could claim a decided advantage.
Fuere, (fu-ai'ro.) (Spanish Hist.) A Spanish term, derived from the Lat. forum, which signifies a place where justice is administered; and hence, jurisdiction.
From this latter sense it came, in Spain, to be transfered.

where justice is administered; and hence, jurisdiction. From this latter sense it came, in Spain, to be transferred to collections of laws; thus the Spanish edition of Lex Visigothorus was called the Fuero jusgo. From hence it came to be applied specially to the rights conferred by the crown on particular cities, the most famous of which were the Fuero of Leon, and that of Naxera. As these civic rights were chiefly liberties, concessions, privileges, the word fuero came to be specially used in this sense, and to denote, in particular, the entire body of immunities and privileges which composed the conference of the special processions. As these civic rights were chiefy liberites, concession, privileges, the word furn came to be specially used in this sense, and to denote, in particular, the entire body of immunities and privileges which composed the constitutions of Navarre, and the three Basque provinces of Biscay, Alava, and Guipuzcoa. It is in this last sense that the word is now almost exclusively used, the furror of the other provinces and towns of Spain having long since become extinct. The subject has, in this century, acquired a fresh importance, from having given rise to the revolution of 1833, in the Basque provinces, which led to a series of sanguinary conflicts, and which was only terminated by Queen Isabella and her government, in 1814, entering into a formal recognition of the ancient rights and privileges of these provinces. These rights are based upon the ancient laws of the Visigotha, and were enveloped in the period between the fall of the Moors in the Spanish monarchy under the house of Hapsburg. The furror thus owed their rise to the old Gothic laws, and as they took their form from the struggles between the people and their princes, they differ considerably in the different provinces. In Biscay, for example, the sovereign has only the power of nominating the corregidor, or chief magistrate; and even his nomination requires to be confirmed by the junta of the province, —a legislative body elected by almost universal suffrage, and intrusted with the chief management of public affairs. The inhabitants are exempt from all taxes and imposts, except such as they vote themselves; and claim, by virtue of pure Biscayan descent, the privileges of Spanish nobility. They are not obliged to appear before any tribunal beyond the bounds of their own territory, or to allow any royal monopoly, or admit royal troops within their territory, or to furnish recruits for the royal army.

Fuerte, (fuerta,) a small island in the Caribbean Sea, of the N. W. coast of Colombia, about 86 m. 8.8 W. of Cartagena.

Sea, off the N. W. coast of Colombia, about 86 m. 8.8.W. of Cartagena.

Fuer'te, (Blo de,) enters the Gulf of California from the dept. of Sinaloa, Mexico, Lat. 26° 50' N., Lon. 109° 10' W. See Villa Del Fuerra.

Fuer'te de Sam José, (da san ho-sa') a town of the Argentine Republic, abt. 95 m. N.E. of Tecuman.

Fuga, (foo'ga, an island of the Asiatic archipelago, 25 m. from Luzon. It is 35 m. in circumference. Lat. 10° N. Lon. 120' 20' R.

Fuga, n. [11] Same as Fugue, q. v.

Fuga-cious, a. [lat. fugaz, from fuga, a flight.] Flying or fleeing away; volatile.

Fuga-city, n. [Rr. fugacite', Lat. fugacitas—fugaz, fleeting, from fugere, to flee.] Act or quality of flying away; volatility; uncertainty; instability.

Fuga-fro, n. [11.] (Mus.) A stop of the flute kind in French organs of 4-feet pitch, and sometimes of 8-feet pitch, of a small scale, made of wood or tin; in tone it is as piercing as the gamba, but much clearer.

Fuga-to, n. [11.] (Mus.) A composition in the style of a fugue.

Fugger, (föög'ger.) the name of a rich and illustrious

Fugato, n. [It.] (Mus.) A composition in the style of a fugue.

Fugger, (föög/ger.) the name of a rich and illustrious family of Suabla, descended from a weaver, who originally lived in the environs of Augsburg, about 1300. They were at first successful in selling clothes, but afterwards extended their dealings, and became merchants, accumulating an immense fortune. Reaching the height of their affluence at the commencement of the 16th century, they rendered considerable services to the emperors Charles V. and Maximilian, by making them large advances. These princes bestowed titles of nobility on the Fugger family, and they soon became connected with the best blood of Germany. Promoted to the highest dignities of the empire, they did not any the more neglect the pursuits of commerce. Their riches were always forthcoming for the improvement of their birthplace, Augsburg, where they erected some the more neglect the pursues of comment of their birthplace, Augsburg, where they erected some handsome nonuments, and founded philanthropical institutions. The best known of them are the three birthers, Ulric, James, and George: and, afterwards, Raymond and Antony, both soms of George. Ulric received for his louns to Maximilian the countship of Kirchberg, and the seigniory of Weissenborn, which afterwards remained in the possession of his family. He was a great encourager of learning.—Antony and Raymond bore, to a great extent, the expenses of the expedition of Charles V. against Algeria, obtaining from him the permission to coin money. One day, at an interval of the state of the stat

gard and esteem, threw into the fire all the title-deeds and securities which Charles had deposited with him. Several of this family still exist, and Augsburg owes its position on the continent, as a financial centre, to the energy and talent of the Fuggers. Fugfin, (Fue) interj. [Gr. phew.] An expression of abhorrence. (Generally written fol.)

" Fugh ! how he stinks of Spain."-Dryden

Fugiti, in Indiana, a township of Decatur co. Pop. (1890) 1,606.
Fugitive, a. [Fr. fugitif; Lat. fugitivus, from fugere, to flee, to escape.] Readily wafted by the wind; volatile; not tenable; easily escaping. "Tender and fugitive parts." (Woodward.) — Unstable; unsteady; fleeting; not fixed or durable; temporary; as, fugitive writings. — Fleeing; running from danger or pursuit; elopings. — revenue, ing; escaping.
"The fugitive Parthians follow."—She

-Wandering; vagabond; errant.
"A fugitive physician."— Wott

n. One obliged to flee from his country, or remove from a place where he had some abode or establishment, on account of his crimes, debts, or other circumstances.

One hard to be caught or detained.

"Or catch that airy fugitive called wit.

"Or eatch that airy fugitive called wit."—Harta.

(Law.) As one State cannot pursue those who violate its laws into the territories of another, the practice prevails among the more enlightened nations of mutually surrendering such fugitives to the justice of the injured State. This practice is founded on national comity and convenience, or on express compact. The U. States recognize the obligation only when it is created by express agreement. (See Exprantion.) As between the States of the American Union, extradition is made compalsory by the Federal Constitution, Art. iv. Sec. 2, which provides that "a person charged in any State with treason, felony, or other crime, who shall fly from justice and be found in another State, shall, on demand of the executive authority of the State from which he fled, be delivered up, to be removed to the State having jurisdiction of the crime." In the several States there are statutory provisions or established usages regulating the procedure in such cases.

Furgitively, adv. In a fugitive manner.

procedure in such cases.

"a'gitively, adv. In a fugitive manner.

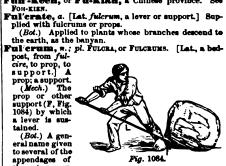
"a'gitively, adv. Readiness to fly away; instability; volatility; fugacity; want of perseverance or durability; unsteadiness.

Fu'gleman, n.; pl. Fugue; Sp., It, and Lat, Ingo, a fight.] (Mus.) A composition, vocal or instrumental, or both, in which a determined succession of notes, called the subject, passes successively, and alternately, from one part to the other, according to certain rules of harmony and modulation. There are four kinds of fugue; viz., the strict Iugue, in which the subject is given out by one part and answered by another, the subject being again repeated in the third part; the freque, in which the composer is not so much restrained, but is allowed to introduce passages not closely related to the theme; the double fugue, in which there are two subjects occasionally intermingled, and moving together; and the inverted fugue, in which, as its name implies, the theme is inverted. Fu'gleman, n.; pl. Fuglemen. Same as Flugelman, q.r.

Pu'guist. n. [Fr. fuguiste.] One who composes fugues, or performs them extemporaneously.

Fuh'keen, or Fu-kiam, a Chinese province. See

eral name given to several of the appendages of the stem or



the stem or leaves, which serve either for support or defence, as the prickle, hair, tendril, stipule.

Ful'da, a river of Germany, rising in the Rhöngebirga, and after a course of 90 m. falling into the Werra near Minden.

Minden.
Fulda (fool'da), a walled town of Hesse-Nassau, on the
Fulda, 69 m. from Mentz, and cap. of the prov. of the
same name. It has a fine cathedral. Manus!. Woolen
and linen fabrics, earthenware, leather, and tobacco.
Pop. (1895) 10,050.
Fulda, in Indiana, a post-village of Spencer co.
Fulfil', Fulfill', v. a. [A. S. fulfyllan.] To complete; to accomplish; to perform; to answer in execution or event what has been foretold or promised; as,
to fulfil a prophecy.
"A and bears of littled her promise to the akies."—Millen.

plishment; completion, as of a prophecy. — Execution;

passiment; completion, as of a promise or threat.

Ful'gency, a. [Lat. fulgens, pp. of fulgers, to shine.]

Splendor; giltter; brilliancy.
Ful'gent, a. [Sea above.] Gilttering; shining; dazzling; exquisitely bright.

" A fulgent illumination."—Hoore.

Ful'gently, adv. Glitteringly; dazzlingly; with exquisite brightness.
Fulgor'disc, n. pl. (Zod.) A family of hemipterous insects, popularly known as Lantern-flies, from their power of diffusing light in the dark, and belonging mainly to tropical and sub-tropical regions. The American Lantern-fly (Fig. 1085) may be taken as the type of this family. The form of this insect is very remarkable, The head is dilated in front, with porrected protuber-



Fig. 1085. - AMERICAN LANTERN-FLY.

ances; and it is from the hollow or lantern of the head that the light is said to proceed, and from no other part. "Two or three of these insects put into a glass vessel afford light sufficient to read by, without difficulty, if they be placed close to the bed. Even when the insects are dead, their bodies will afford considerable light, though less vivid than before; and if bruised and rubbed over the hands and face, they become luminous in the dark, like a beard smeared with English phosphorus." (Nat. Hist. Guinea, Bancroft.)—Madame Merrian, in her work on the insects of Surinam, was the first to draw attention to this insect. "The Indiana," says she, once brought me, before I knew that they shone by night, a number of the lantern-files, which I shut up in a large wooden box. In the night they made such a noise, that I awoke in a fright, and ordered a light to be brought. We soon found that the noise came from the box, and opened it, but were much alarmed, and instantly let it fall to the ground with affright, on perceiving flames of fire issue from it; for as many animals came out, so many flames appeared. When we found this to be the cause, we recovered from our terror, and again collected the insects, much admiring their splendid appearance."

Pales are "Siese. "Eff., from Let. fulgaratic, from fuland it is from the hollow or lantern of the head did appearance

gur, a flash of lightning, from fulgere, to shine, allied to flagrare, to burn.] (Chem.) A sudden brightning of meited gold or silver in the cupel of the assayer, when the last film of vitreous lead or copper leaves the

surface.
Fail'gurite., n. [Fr., from Lat. fulguritus, pp. of fulguritus, to strike with lightning—fulgur, lightning.]
(Miner.) One of those tubes formed of vitrified sand, which are found in sand-banks, and in soils consisting chiefly of silicious sand, and are attributed to the action of lightning melting, and vitrifying the sand.

Failmann. a parish of England, co. Middlesex, on the Thames, 5½ m. from St. Paul's, London.

Failen, n. [Lat., a coot.] (2081.) The Coots, a genus of birds, order Grallatores, distinguished by having the bill straight, compressed, and extending into the feathers of the forehead, forming a wide and projecting frontal plate; and the toes margined with semicircular lobes.

Failing Imeeus. a. [Fr. fuligineux; Lat. fuligineus, from fuligo, soot.] Sooty; dark; dusky; smoky, or resembling smoke.

sembling smoke.

Fulig'inously, adv. In a smoky, dusky, or sooty

manner. a. Same as FOUMARY, q.v.

Pullimart, a. Same as FOUMARY, q.v.

Pullimart, a. (2081.) A genus of birds, order Natatores; has the bill as long as the feet; head, neck, body anterior to the shoulders, tail and tail-coverts, rump, and lower back, black; tail rounded, of fourteen feathers; under parts white, finely waved with black behind and on the sides. To this genus belong the species popularly known as Broad-Bill, Big Black-Head, or Scaup Duck, Little Black-Head or Blue Bill, and Ring-necked Duck.

Pull, a. (A.S. full, from fyllan, to fill; Ger. vall. See FILL.) Filled to the utmost extent of capacity; replete; having within its limits all that it can contain; as, a full boses—Abounding with; having a large quantity or abundance; supplied; as, full of weeds.—Plump; fat; as, a full body, a full habit.—Saturated; sated.

"I am full of the burnt-offering of rams."—Lest. i. 11.

mt; as, a full body, a full habit. — Saturated; sated.

"I am full of the barnt-offrings of rams." — Isst. i. 11.

—Having the mind or memory filled. — Complete; entires not partial; not deficient; as, a full band. — That fills as a meal. — Strong; not faint or attenuated; loud; distinct; clear, as a voice.—Mature; perfect; as, a person of full age. — Spread to view in all dimensions; exhibiting the whole surface or disk illuminated; as, the full moon. — Abundant; plenteous; sufficient; adequate; equal, as pay for work. — Well-fed; furnished; abounding; copious; ample.

Full age. (Laws). The age of twenty-one of both males and females, by common law, generally adopted in the

FULL

U. States. In Vermont and Ohlo, however, a woman is of full age at eighteen.

—. Complete measure; utmost extent; the highest state or degree, as of the tide. —The whole; the total.—State of satiety.—The moon's time of having meridian light.—adr. Quite; to the same degree; without abatement or diminution; with the whole effect; exactly; directly.—r. n. To present a disk wholly illuminated; as, the moon fulls to-night.

Full, v. a. [As. fullian, to whiten, to make full; fulliar, to thicken cloth, from fullo, a fuller. Allied to Gr. pilos, wool or hair wrought into felt.] To thicken cloth in a mill.—v. n. To become scoured, cleansed, and thicken din a mill.

v. n. To become scoured, cleansed, and thickened in a mill, said of cloth.

Full'-blowm, a. Fully expanded, as a blossom.—fully distended with wind, as a sail.

Full'-blottom, n. A wig with a large bottom.—Full'-blottom, n. A wig with a large bottom, as a wig.

Full'-butto, adv. Directly. (Vulgar.)

moon fulls to night.

Full, v. a. [A.S. fullian, to whiten, to make full; fuller, a fuller; Fr. fouler, to tread; L. Lat. fullar, to thicken cloth, from fullo, a fuller. Allied to Gr. pilos wool or hair wrought into felt.] To thicken cloth in a

nn a mil.

v. n. To become scoured, cleansed, and thickened in a mill, said of cloth.

Fullage, n. The money paid for fulling or cleaning

Full'age, n. The money paid for fulling or cleaning cloth.
Full'blowm, a. Fully expanded, as a blossom.—
Full'blowm, a. Fully expanded, as a blossom.—
Full'bottoms, n. A wig with a large bottom.
Full'bottoms, n. A wig with a large bottom.
Full'bottoms, n. A wig with a large bottom.
Full'bottomed, a. Having a large bottom, as a wig.
Full'bott, adv. Directly. (Vulgar.)
Full'or, n. A person whose employment is to full cloth.
(Blackmith's Work.) A half-round set hammer, used for widening out a piece of iron, and condensing the particles thereof.
Fuller, Traomas, one of the wittiest and most original of English authors, a. at Aldwinkle, Northamptonshire, in 1608. His first clerical appointment was that of minister of St. Benet's parish, Cambridge, where he acquired great popularity as a preacher. He afterwards obtained the rectory of Broad Windsor, Dorsetshire. His first literary production was a poem entitled David's Hainous Sin, Heartie Repentance, and Heavie Punishment. In 1640 he published his History of the Holy War; soon after which he removed to London, and was chosen lecturer at the Savoy church, in the Strand. On the departure of Charles I. from London, previously to the commencement of hostilities, F. delivered a sermon at Westminster Abbey, on the anniversary of his majesty's inauguration in 1642, from 2 Samuel xix. 30—
"Yea, let them take all, so that my lord the king return in peace," which greatly offended the popular leaders, and endangered the safety of the preacher. About this time he published his Holy and Profane State. In 1643 he went to Oxford, and joined the king, but having lost his living by sequestration, and also all his books, he became chaplain to Sir Ralph Hopton, and employed his leisure in making collections relative to English history and antiquities. He was present at the siege of Busing House, and also at that of Exeter. About 1648 he his leisure in making collections relative to English history and antiquities. He was present at the siege of Basing House, and also at that of Exeter. About 1648 he was appointed rector of Waitham. In 16.0 appeared his Prigada Sight of Palestine, and his Abel Redirirus; and six years later, his Church History of Great Britain; but it was not till after his death that his principal literary work was published, entitled The Worthies of England—a production valuable alike for the solid information it affords relative to the provincial history of the country, and for its profusion of biographical anecdote and acute observation on men and manners. At the Restoration he was made D.D. and chaplain to the king. country, and for its prints of to lographical anecadre and acute observation on men and manners. At the Restoration he was made D.D. and chaplain to the king. Dr. P.'s writings possess much learning, wit, and humor, with an elaborate display of quaint conceit—a quality highly esteemed at the time he wrote, and one which appears quite natural to him. Many extraordinary stories are told respecting his prodigiously retentive memory; the following punning anecdote, old as it is, and though not strictly blographical, is worth repeating. Dr. P. was, it seems, an inveterate punster; but once attempting to play off a joke upon a gentleman named Sparrowhawk, he net with the following retort: "What is the difference," said the Dr. (who was very corpulent), "between an owl and a sparrow-hawk!" "It is," replied the other, "fuller in the head, fuller in the body, and fuller all over." D. 1661.
Full'ersburg, in Illinois, a post-office of Du Page co. Full'er's Earth, n. (Min.) An earthy, hydrated silicate of alumina, having, like other soft aluminous ninerals, the property of absorbing grease. It is used to cleanse woollen fabrics by removing the grease and oily matter by capillary attraction. When pure, its comp. is silica 45, alumina 20, water 26.
Full'er's Station, in N.Y., a post-office of Albany co. Fuller's-thistic, Full-irs' were, n. The Teasel, a plant so called because its bristly head is used by fullers in dressing cloths.
Full'errom, in Alaboma, a P. O. of Cherokee co. Fullerton, in Alaboma, a P. O. of Orange co. Fullerton, in Nebroska, a post-village, the capital of Vance co. Pop. (1897) about 1,400.
Fullery, n. The place where the trade of a fuller is exercised.
Full'erey, a. The place where the trade of a fuller is exercised.
Full'erey, a. The place where the trade of a fuller is exercised.

"I cannot fulminate or tonitruate words." - Randolph

To cause to explode. "all'minste, n. [Lat. fulmen, a thunderbolt.] (Chem.)
A compound of fulminic acid with a base. They are all
more or less explosive by the action of heat or friction
Of these, the F. of mercury and silver are the most im-

more or less explosive by the action of heat or friction Of these, the F. of mercury and silver are the most important.

F. of Mercury (Chem.) is prepared by dissolving one part of the mercury in 12 of uttric acid, sp. gr. 1-42, aided by a gentle heat. As soon as the mercury is dissolved, add 11 parts of alcohol, sp. gr. 87. A brisk action will ensue, and the solution will become turbid from the separation of crystals of the fulminate. Dense white clouds are also evolved at the same time, which have an agreeable odor from the presence of nitrous ether, aidehyde, and other products of the action of nitric acid upon alcohol. When the action has subsided, the vessel may be filled with water, and the fulminate allowed to settle, after which it is collected on a fitter, washed and dried by exposure to the air. When dry it must be handled cautiously, as it explodes by friction or percusion, especially when in contact with particles of sand or glass. It must be kept in corked bottles, leat it be exploded by heating to about 300°, by the electric spark, and by contact with concentrated nitric or sulphuric acid. This fulminate is used for the filling of percussion-caps. For this purpose it is necessary to moderate its explosive property, since it is too rapid and violent for the purpose. It is mixed with chorate or nitrate of potash, and ground glass is often added to increase the sensibility of the mixture to explosion by percussion. The composition is made in but small quantities at a time, since it is so liable to explode under friction. After being placed in the cap, it is made to adhere and rendered water-proof by a drop of the solution of shellac in alcohol. Form. C. [Hg,No<sub>2</sub>.

F. of Silver is prepared by a process similar to that for F. of mercury, but as its explosive properties are far more violent, it is advisable to prepare it only in minute quantities. When dry, it must be handled with the greatest caution. Nothing harder than papers should be used in detonating crackers, which are made by twisting up a par

ing; detonating.
-Hurling menaces or censures.

ing; detonating.

—Iluring menaces or censures.

P. Gold (Chem.) is obtained as a buff precipitate when ammonia is added to a solution of terchloride of gold. It explodes violently when heated. Parm. AuO<sub>2</sub> 2NH<sub>3</sub>IIO. —P. Platrinsm is obtained by dissolving binoxide of platinum in dilute sulphuric acid, and mixing the solution with excess of ammonia, when it falls as a black precipitate, which detonates violently at abt. 400° Fahr. Form. NH.Pt.4iIO. —P. Silver. When moist oxide of silver is covered with a strong solution of ammonia and allowed to stand for some hours, it becomes black and acquires dangerous explosive properties. It is supposed to be a nitride of silver. Form. Ag.N. These compounds must not be confounded with the fulminates, which are compounds of the metals with a true acid.

Fulmina/tiom, n. [Fr., from Lat. fulminatio. See Supra.] A thundering; a detonation.—Denunciation of censure or threats, as by Papal authority; anathema or excommunication.—The explosion of certain chemical preparations.

or excommunication.—The explosion of certain chemical preparations.

Ful'minatory, a. [Fr. fulminatoire.] Thundering; striking terror or horror.

Fulmin'ecous, a. Belonging to thunder.

Fulmin'ic Acid, n. [Lat. fulmen, a thunderbolt, from the noise produced by the explosion of its compounds.] (Chem.) An acid corresponding in its ultimate composition with cyanic acid, but never obtained in a separate state. Combined with the oxides of the metals it forms a series of very explosive compounds called fulminates. called fulminates.
Ful'mess, Fullness, n. State of being filled so as to

Digitized by GOOSIG

leave no part empty or vacant; state of abounding or being in great plenty; abundance; copiousness; plentude; completeness; perfection; repletion; satiety; plenty; wealth; affluence; swelling, as of the soul; largeness; extent; loudness; force of sound, such as fills the ear; as, fulness of joy, fulness of body, &c. Fulsomme, (fulnum,) a. [A.B. ful, foul, and the term some.] Rank; gross; disgusting; nauseous; as, fulsome flattery.

fattery.

Ful'somely, adv. Rankly: nauseously: grossly.
Ful'someness, n. Nauseousness; offensive grossness.
Ful'ton, Robert, an American inventor and engineer, "BI'LOM, RUBERT, an American inventor and engineer, celebrated as being the introducer of steam—navigation, was B. of Irish descent, in Lancaster co., Penna., in 1766. Early in life he manifested a taste for painting, and purposing to adopt it as a profession, he repaired to England to study under Benj. West. In that country, however, he became acquainted with the Duke of Bridgewater,



Fig. 1086. - ROBERT FULTON.

(q. v.), the founder of the canal system of Great Britain, (q, v.), the founder of the canal system of Great Britain, who induced F. to abandon art, and take to the study of mechanical science. This nobleman was at the time engaged in a scheme of steam-navigation, which he imparted to F. The latter visiting Birmingham was brought into communication with the celebrated James Watt (q. v.), who had just succeeded in his great improvement of the steam-engine, with the construction of which F. made himself thoroughly familiar during his stay. About this time he invented a machine for spinning flax, and another for making ropes, for which he obtained patents in England. In 1796 he published a treatise on the improvement of canal-navigation. From 1797 to 1804 he resided in Paris with Mr. Joel Barlow, the American representative at the French court. Dur-1707 to 1804 he resided in Paris with Mr. Joel Barlow, the American representative at the French court. During this period he invented a submarine or plunging boat, called a Torpeto, designed to be used in naval warfare. He invited the attention of the French government to his invention, and Bonaparte, then First Consul, appointed Volney, La Place, and Monge, as a commission to examine it. Several experiments were made in 1801 in the harbor of Breat. He could easily descend to any depth, or rise to the surface; and where there was no attong current, the best was quite obsdient to her helm depth, or rise to the surface; and where there was no strong current, the boat was quite obedient to her helm while under water. On one occasion, he remained in the torpedo several feet below the surface for more than four hours; but the motion of the boat while submerged was very slow, and it was clearly unequal to the stemming of a strong current. The French government declined to patronize the project, and F. accepted an Invitation from the English ministry, who also appointed a commission to test the merits of his torpedo. He appears, however, to have received but little encouragement, and in 1806 he returned to the United States. Having been supplied with the necessary funds by Robert Livingston, who had been American ambassador at Paris, F. had the astisfaction of proving, in 1807, that steam could be applied to the propulsion of vessels with entire success. His achievement excited universal ad-



Fig. 1087. - THE CLERMONT. (The first steam-packet in the world )

miration, and from that time steamboats were rapidly multiplied on the waters of the United States. His first

steamboat, called The Clermont (of 140 feet keel and 10% feet beam, see Fig. 1987). made a progress on 10% feet beam, see Fig. 1987). made a progress on 10% feet beam, see Fig. 1987). made a progress on 10% feet beam, see Fig. 1987). made a progress on 10% feet beam, see Fig. 1987). made a progress on 10% feet beam, see Fig. 1987. He afterwards built other steam vessels, one of them a frigate which bore his name. He fig. 10% feet beam, which should be considerable degree steam of the fig. 10% feet beam, which should be considerable degree steam of the fig. 10% feet beam, which should he patent rights, together with his enther should he pa

Surjaca, miny; son, terme. Cap. Sastin. Pop. (1880) 10,984.

— A post-town of Hempstead co., on the Red river, about 140 m. S.W. of Little Rock. Pop. (1890) 337.

Ful'40m, in Georgia, a N.W. co.; area, about 166 sq. m. Rivers. Chattahoochee river, and several smaller streams. Surjace, diversified; soil, fertile. Cap. Atlanta. Pop. (1897) about 124,000.

Fultom, in Illinois, a W. co.; area, about 870 sq. m. Rivers. Illinois and Spoon rivers, Otter, Putnam's, and Copperas creeks. Surjace, nuclulating; soil, very fertile. Mis. Coal. Cap. Lewistown. Pop. (1890) 43,110.

—A village of Fulton co.

Tupicon, in Isdiana, a N. co.; area, about 2,648.

Fulton, in Isdiana, a N. co.; area, about 380 sq. m. Rivers. Tippecanoe rivers. Surjace, generally level; soil, fertile. Mis. Irvn. Cap. Rochester. Pop. (1890) 16,748.

Pulton, in Iosca, a post-village of Jackson co., about 28 m. S. of Dubuque.

A post-office of Jackson co.

A township of Muscatine co.

A township of Muscatine co.

Pulton, in Kausas, a post-office of Bourbon co.

Fulton, in Mishigan, a village of Barry co., diversified; soil, fertile. Cap. Hickman. Pop. (1890) 10,005.

Fulton, in Mishigan, a village of Barry co., about 130 m. W. by N. of Detroit.

Fulton, in Mishigan, a post-village, capital of Itawanba co., on the Tombigbee river, about 210 m. N.N.E. of Jackson.

Fulton, in Missouri, a city, capital of Calloway co., about

wamba co., on the Tombigbee river, about 210 m. N.N.E. of Jackson.
Fultom. in Missouri, a city, capital of Calloway co., about 20 m. N.E. of Jefferson City. It contains the State Institute for education of Deaf and Dumb, and the State Lunatic Asylum. Pop. (1890) 4,324.
Fultom, in North Carolisa, a post-township of Davie co., on the Yadkin river, about 110 m. W.N.W. of Raleigh. Fultom, in New York, an E.N.E. oc; orea, about 567 sq. m. Rivers. Sacandaga river, and E. Canada creek. Surface, uneven; soil, fertile. County-seat, Johnstown. Pop. (1890) 37,650.

—A former post-office of Orange co.
—A post-village of Oswego co., on the Oswego river, about 25 m. N.W. of Syracuse.
—A township of Schoharie co.
Fultom, in Ohio, a N.W. co., bordering on Michigan; crea, about 402 sq. m. Rivers. Bean creek, and other smaller streams. Surface, level; soil, fertile. Cap. Wauseon. Pop. (1890) 22,023.

—A township of the above co.

—A village and township of Hamilton co., on the Ohio river, just above Cincinnati, of which it was a suburb and now forms the 17th ward.

—See Canal Fullyn.

O CANAL FULTON.

—See CANAL FULTON.

Fulton, in Pennsylvania, a S. co., bordering on Maryland; area, about 435 sq. m. Rivers. Concloway and Licking creeks. Surface, mountainous; soil, in the valleys fertile. Cap. McConnelsburg. Pop. (1890) 10,137.

—A township of Lancaster co., containing the post-office known as Fulton House.

—A village of Westmoreland co., 22 m. 8.E. of Pittsburg. Fulton, in South Carolina, a post-township and hamlet of Clarendon co., 40 m. E.S.E. of Columbia.

Fulton, in Tennesses, a post-village of Lauderdale co. abt. 35 m. N. of Memphis. Fulton, in Wisconsis ulton, in Wisconsin, a post-village and township of Rock county, about 35 miles S.E. of the city of Madi-

son.
Fulton, in W. Virginia, a village of Obic co.
Fulton Cen'tre, in Wisconsin, a village of Rock co., abt. 27 m. S.E. of Madison.
Ful'tonham, in New Fork, a post-village of Schoharie co., abt. 35 m. W. by S. of Albany.
Ful'tonham, or Uniontown, in Ohio, a post-village of Muskingum co., abt. 57 m. E. of Columbus.
Ful'ton House, in Pennsylvania, a post-village of Largester co.

Ful'ton Lakes, in New York, a chain of small lakes in Hamilton and Herkimer cos., connected with Moose River by short outlets.

"I saw him jumble with the sheets."—Shake.

v. a. To manage awkwardly.

Funn'bler, n. One who gropes or manages awkwardly.

Funn'bling, p. a. Groping; managing awkwardly.

Funneblingly, adv. In an awkward manner.

Funne, n. [Fr. jumée; Lat. jumus, amoko.] Vapor from continustion, as from burning wood or tobacco; volatile matter ascending in a dense body; exhalation from the stomach, as of liquor.—Rage; heat, as of passion.—Idle conceit; vain imagination.

"All that may seem to have a shew of jumes and fancies."—Becon. "All that may seem to have a shew of fu

v. n. To throw off vapor, as in combustion; to yield vapor or visible exhalations; to pass off in vapors. — To be in a rage; to be hot with anger.

v. a. To dry in smoke; to fumigate; to perfume; to disperse or drive away in vapors.

'She fum'd the temples with an od'rous flame."—Drye

Furmerless, a. Void of fume.
Furmerless, a. Void of fume.
Fu'met, n. [Lat. fimus, dung.] The dung of the deer.
Fu'met, Furmette', n. [Fr., odor, fume of wine or meat.] The stench of meat when over-long kept.
Fu'mid, a. [Lat. fumidus, from fumus, amoke.] Vaporous: smoky.

"A crass and famid exhalation."-Br

Fumid'ity, FU'MIDNESS, n. Smokiness; tendency to

smoke.

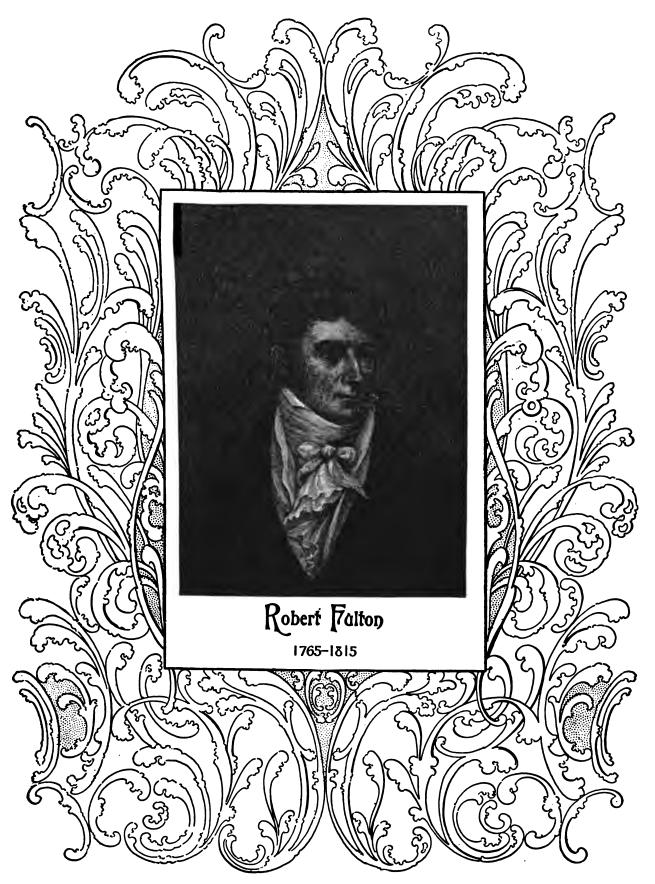
Fumiferous, a. [Lat. fumus, smoke, and ferre, to bear.] Smoke-producing.

Fumifugist, n. [Fr. fumifuge; Lat. fumus, smoke, and fugare, to drive away, to dissipate.] Whoever, or whatever, dissipates smoke or fumes.

Fu'migate, v. a. [Fr. fumiger; Lat. fumigare—fumus, smoke, and agere, to drive.] To perfume.

"With fearmat thems that ofte desirates." Providen

"With fragrant thyme, that city A



-To apply smoke to: to expose to smoke or gas; to purify from infection, &c.; to medicate or heal by vapors.

Fumiga'tion, a. [L.Lat. fumigatio.] (Hygiene.) A process by which the foul gases or impure air of a room are disinfected or purified. Any substance burnt, or generated by heat, fume, or smoke, is a F.; in this manner the burning of incense, pastils, the vapors of vinegar given off by a hot shovel, the igniting of feathers or brown paper,—each and all belong to the class of what are called agents of fumigation. Such things, however, in general only overpower a previous odor by another more potent or unwholesome than the first, and are, consequently, less perfect than those agents which decompose the gases on which the noxious smell depends. See Disingariants. DISINFECTANTS.

DISINFECTANTS.

Pu'milly, adv. In a smoky manner.

Pu'milly, adv. In a smoky manner.

Pu'milleg, p. a. Emitting vapors; as, a fuming dunghill.—Raging; as, to be in a fuming passion.

F. Liquors. (Chem.) Certain compounds which exhale visible fumes, or in common language smoke, when exposed to air, were so called by the old chemists. Boyle's fuming liquor is an arwenical compound, now termed oxide of kakodyle; the fuming liquor of Libuvius is the anhydrous bichloride of tin.

Pu'milingly, adv. In a rage; angrily.

Pu'milingly, adv. In a rage; angrily.

Pu'milingly. Adv. In Anger: rage; vexation; passion.

Pu'miter, Fu'mironx, n. Same as Funatorx, q. v.

Fum'mel. n. The offspring of a stallion and a she-ass; a hinny or nuile.

a kinny or nule. **Pumes'ity.** n. The state of being fumid. **Pu'mous,** Fu'mr, a. [Fr. fumeux; Lat. fumeus.] Pro-

ducing fumes; vaporous.

"And puffed the fumy god from out his breast."—Dry "um, n. [A. S. fean, gefean, joys, pleasures, pl. of fea, gefea, from fegan, fagan, to be glad.] Sport; the perception or enjoyment of drollery and oddity; frolic; nirthful drollery: merriment. (Colloq.) Pun, n.

Too it mind me, though, for all my /sss and jokes,
You bards may find us blood., good natur'd folks."

Funam'bulate, v. n. [Lat. fumis, a rope, and ambido to walk.] To walk on a rope.
Funam bula'tion, n. The act of walking a rope.
Funam'bulatory, a. Pertaining to the act of walk.

ing a rope.

Funam'bulo, Funambulus, s. [See Supra.] One

Funana' but 6, Funanbutte, s. [See BUFA.] Une who walks or dances upon a rope. Funehall, (foon'sho!,) the capital and seaport of the island of Madeira, situated in the centre of a large bay on the 8. coast; Lat. 32° 7' N., Lon. 16° 54' W. It is ir-regularly built; the streets are narrow, winding, ill-paved, and dirty. An old castle, which commands the roads,



Fig. 1088. - Funchal.

Fig. 1088. FUNCHAL.

stands on the top of a steep, black rock, called Lon Rock, surrounded by the sea at high water. The entire produce of the island, consisting mostly of wine and sweetmests, is exported from F. Pop. 20,000, among whom are many English, French, Portuguese, and mulatto and negro freedmen. — See Maderra.

Function, fund'show, n. [Fr. fonction; Lat. function from function product to prefer to accomplish I higherery correspondents.]

from fungi, to perform, to accomplish.] Discharge; performance; execution.

A commoner in the function of his public calling."-Swift. Office or employment; duty; business; charge; post;

place.
"The double function of the goddess." — Aadiec -Power or faculty, animal or intellectual.

"The common functions of life."—Arbuthnot.

"The common functions of life."—Arbuthnot.

(Phyriol.) The proper office of any organ in the animal or vegetable economy. Thus the function of the lachrymal gland is to secrete tears; of the liver, to secrete bile; of the stomach, gastric juice, the fluid to direct the food. The three most important of all the functions, as those of the heart, lungs, and brain, are called the vital functions, from being necessary for the support of the living hady.

of the living body.

(Math.) One quantity is said to be a F. of another, or of the living loady. (Math.) One quantity is said to be a F of another, or of several others, when its value depends upon those of the latter. Thus the area of a triangle is a F of its 3 sides, and  $y = a + bx + cx^a$  is a F of a, b, c, and x. Functious receive distinctive names according to the nature of the dependence above referred to. Thus the F above of the dependence above referred to. Thus the F. above written is said to be an algebraical F. of x, since y is obtainable from x by the performance of a limited and definite number of algebraical operations. Log x, sin x, x, on the other hand, are said to be transcendental functions of x, and for obvious reasons receive the distinctive names of logarithmic, trigonometrical, and exponential functions.

Func'tional, a. Relating to some office or function;

Performed by the functions, as of animal or vegetable

—Performed by the functions, as of animal or vegetable bodies.

Func'tionalize, v. a. To assign to some duty or office.

Func'tionally, adv. By means of the functions.

Func'tionary, n. [Fr. fonctionnaire.] One who discharges any duty or service; one who holds a public office of trust.

fice of trust.

Fund, n. [Fr. fond; It. fondo; Lat. fundus, ground, bottom, foundation, — allied to Lat. fundus, a sling, a casting-net, a money-purse, and Gr. sphendow, a bandage.] A stock or capital. "He performs all this out of his own fund." (Dryden.)— Money lent to government, constituting the stock of a national debt, for which interest is paid; (mostly in the plural;) as, the funds have fallen. — Money or income destined to the payment of the interest of a public debt, or for the support of some permanent object. — Abundance; ample stock or store. Funds, (Public.) See NATIONAL DEST.—

p. d. To provide and appropriate a fund for paying the

Funds, (Public.) See NATIONAL DEFT.

-v.a. To provide and appropriate a fund for paying the interest of, as a debt. —To place, as money in a fund.

Fund'able, a. That may be converted into a fund, or interest-bearing investment.

Fun'dament, n. [Fr. fondement; Lat. fundamentum, from fundare, to found, from fundus, the bottom.] The seat; the lower part of the body, or its aperture; the anus.

Fundament'al, a. [Fr. fondamental. See above.] Serving for the foundation; essential; important; neces-sary; primary; leading; as, a fundamental cause, funental laws.

(Mus.) A term applicable to either a chord or to a note: to the former, when its lowest component part is the note on which the harmony is founded; and to the latter, when it is both the lowest constituent part of a chord and the note from which the harmony is really and nominally derived.

n. A leading or primary principle, rule, law, or article, which serves as the groundwork of a system; an essential; as, the fundamentals of faith.

tial; as, the fundamentals of faith.

"Men who agree in all fundamentals."—Swift.

Fundamen tally, adv. Primarily; originally; essentially; at the foundation.

Fund'ed, p. a. Placed in the public funds; as, funded property.— Furnished with funds for the regular payment of the interest of; as, a funded debt.

Fund holder, n. One who has property invested in public securities.

Fun'di, or Fundungi, n. (Bot.) See RASPALUM.

Fund'ing, p. a. Providing funds for payment of the interest upon; as, a funding system.—Investing in public securities.

Fund'ing, p. a. Providing funds for payment of the interest upon; as, a funding system.—Investing in public securities.

Fund'ines, a. Destitute of funds.

Fund'y, (Bay of,) an arm of the Atlantic Ocean between Nova Scotia and New Brunswick. It is abt. 170 m. long, and from 30 to 50 m. wide. Opening into it are Chignecto Bay and Mines Channel at the N. extremity, and Passamaquoddy Bay near its mouth. It

tremity, and Passamaquoddy Bay near its mouth. It receives the St. John and St. Croix rivers, and though very deep, navigation is dangerous. The tide rises here to the height of 71 ft., rushing with great and danger-

very deep, navigation is dangerous. The tide rises here to the height of 71 ft., rushing with great and dangerous rapidity.

Filmem, [Dan. Fyen.] an island of the Danish archipelago, separated from Jülland by the strait called Little Belt; Lat. bet. 550 1' and 550 38' N., Lon. bet. 90 44' and 100 53' & Area, 1,123 sq. m. Its shores are deeply indented; its interior is undulating, and there are numerous lakes, streams, and marshes. The soil is productive. Products are corn, flax, hemp, and fruit. Exp. Corn, cattle, horses, honey, fruit, lard, butter, leather. It trades principally with Sweden and Norway. It forms with other islands a prov. of Denmark, q. r. Its chief towns are Odensee, the cap., Svendborg, and Nyelorg. Pop. 200,000.

Fu'meral, n. [Fr. funérailles; L. Lat. funeralia, ceremonies observed at an interment, from funus, funeral, the procession formed to escort the corpse to the tomb, from funusle, a wax-torch, from funis, a rope, — torches or links being made of rope with wax or resin about it. These were necessary, the funerals among the ancient Romans being observed at night.] The solemnization of a burial; a funeral procession; burial; interment, the ceremony of burying a dead body; obsequies; as, to see a funeral pass by.— See Sepultures.

— Used at the interment of the dead; as, funeral rites.

rites.

Fune'real, a. Pertaining to burial; as, a funereal

procession.

Dark; dismal; mournful. "Funereal tapers." -

Fune'really, adv. Dismally; darkly; mournfully.
Fu'nest, a. [Lat. funestus, from funus. See above.
Dreadful; lamentable; direful.

Dreadful; lamentable; direful. Fünfkirchem, (foon/keershem,) a town of Hungary, between the Drave and the Danube, 140 m. from Belgrade. Its cathedral is the oldest religious edifice in Hungary, and occupies the site of a Roman fortress. It has manufactures, and considerable trade in wine, to bacco, and gall-nuts. It has warm mineral baths, and about 7 m. distant from it is a remarkable stalactitic cavern.

cavern. Frange Ties, n. pl. (Bot.) An alliance of plants, class Thallogens, corresponding to the Fungi of de Jussieu, and distinguished at certain points from the sea-weeds more by habit than by general character. They agree with them in their cellular structure and the almost constant absence of vascular tissue; while they differ, according to our best authorities, in their scarcely ever being aquatic, in deriving nutriment from the substance

on which they grow, and in the far lower degree of development of the organs of impregnation. They are also nearly allied to the Lichens, the latter being distinguished by producing gonidia and by deriving their nourishment from the air and not from the matrix on which they grow. — The F., observes Berkeley, may be recognized either as the creatures of corruption — i. e. springing from various bodies, whether animal or vegetable, in a more or less advanced stage of decomposition — or as parasites of living bodies, producing an injurious change. The ephemeral toadstools of the hot-bed, the mushrooms of our rich pastures, the sapballs on decaying trees, the moulds which infest our food, and even the tissues of living animals, the mildew bunt and smut of our corn crops, with many other more or less familiar objects, are so many fungals, all agreeing in the main particulars which we have indicated; and so differing from the green scum of our brooks, and the weeds of the sea, though distinguished from each other by essential differences of structure. In some, no indications of sexual differences have been found, while in others there are bodies which in all probability have an especial sexual function, though at present we are without actual proof of the fact. F. are divided into two great sections, characterized by the mode in which the reproductive bodies are formed. In the one, they are simply the terminal joint or joints of the component threads or cells, altered in form from those which precede them, and at length falling off and reproducing the plant, in which case they are called sports. In the other they are formed from the contents of certain sacs or saci, and are usually definite in number, in which case they are called sports, or the component threads or joints of the component threads or cells, altered in form from those, which precede them, and at length falling off and reproducing the plant, in which case they are called sports, or the component of the same of the summary of the same of the summary of destroy their spawn, or where there is sufficient moistture, though they abound the most in moist temperate
regions. A vast number of species are known, and
many of these are of great importance to man, either
from their useful or their mischievous properties. The
mushroom (see Aoaricus), truffie, and morel, delicacles
well known at table, and the ergot, so useful in obsettric
practice, are illustrations of the former; the fly sgarle
and other poisonous species, as well as blight, midew,
rust, and brand, and the merulius and others which induce dry rot, are examples of the latter.

Fum gia, n. (2001.) A genus of Polypes, of which
there are several species, both recent and fossil, principally from the Indian seas. They belong to the Madrephyllize of De Blainville, and consist of animals in
nearly the lowest state of
organization; for, although
they are universally allowed
to be animals, they are completely without the power
of motion, consisting simply
of a living gelatinous film,
which is endowed with the
capability of constructing for
framework, derived from the
surrounding water. In form
it is generally orbicular or

surrounding water. In form it is generally orbicular or oval; mouth superior, transverse in a large disc, which is covered by many thick cirriform tentacula; and the



Fig. 1089. THICK-TENTACLED PUNGIA. (Fungia crassitentacula.)

disc is solidified internally by a calcareous solid polypa-

disc is solidified internally by a calcarcous solid polypa-rium, of a simple figure.

Fun'gible, w. [L. Lat. res fungibiles, from fungi, to perform, and res, a thing]. (Civil Low.) A term ap-plied to things that are consumed by their use, as wine, oil, &c.; the loan of which is subject to certain

wine, oil, &c.; the loan of which is subject to certain rules, and governed by the contrast called mutuum.

Fun'gie Acid, n. (Chem.) An acid contained in the juice of most fungi. It is said to be a mixture of citric, malic, and phosphoric acid.

Fun'giform, a. (Bot.) Mushroom-headed, — applied to any bodies having a short thick figure, one end of which is much more dilated than the other.

Fun'gite, n. (Chem.) The fieshy part of mushrooms purified by digestion in hot water.

Fun'gite, n. (Bot.) A sort of fossil coral.

Fungiverous, a. [Fr. fungiver: Lat. fungiverus, from fungus, a mushroom, and verare, to devour, Feeding on mushrooms.

Fungoid, a. [Lat. fungus, and Gr. eidas, shape.]

Looking like a mushroom; shaped like a fungus.

Fungous, soft, insubstantial, or non-endurable, like a mushroom; unsolid excrescence.

fungous, soft, insubstantial, or non-endurable, like a mushroom; unsolid excrescence.

"uns'gous, a. [Lat. fungosus, from fungus, a mushroom.]

Excrescent; spongy; soft: growing suddenly, but not substantial or durable; as, the fungous lips of a wound

Fun'gus, n.; pl. Funci, Funcuszs. [Lat., aliied to Gr. sponggos, a sponge.] (Bot.) One of the Fungs, or Funcustation, q.v. (Surp.) A term applied with several significations.

(Surg.) A term applied with several significations. Thus, any excreecence from a surface of skin, or mucous membrane, or even from deeper parts, is sometimes called a fungus, more especially if it have a soft, musinom-like character, and a broad short pedicle. When the pedicle is long and narrow, it is called polypus. The growths to which the term fungus is chiefly applied are those which have the characters of cancer; especially fungus hamalods, a very dangerous variety. But fungus has yet another application in pathology, to tacce minute incrustations and alterations of the skin which are deemedent upon the growth of vegetable parasites.

minute incrustations and alterations of the skin which are dependent upon the growth of vegetable parasites. Fun'gus Melitem'sis, n. [Lat.] (Med.) The name used by the pharmacologists to designate a parasite plant which formerly had a great reputation as a styptic. Its botanical name is Cynomorium coccineum, and

tic. Its botanical name is Cynomorium coccineum, and it belongs to the order Balanophoraeze.

Furincele, n. [Lat. funiculus, dim. of funis, a rope.] A small cord; a small ligature; a flure.

(Bot.) The stalk by which the ovule or the seed is attached to the placenta. When this stalk is absent, the seed is said to be sessile.—See Ovul., SEED.

Funicinar, a. [Fr. funiculaire. See supra.] Consisting of a small cord or fibre, or of an assemblage of ropes.

—Resulting from the tension of a cord.

Funicinate, a. Forming a sharp, narrow ridge.

Funicinate, a. [Lat. funis, a rope, and forma, shape.]

(Bot.) Of a cord-like toughness and flexibility, as certain roots of trees. roots of trees

roots of trees.

Fu'nis-umbi'licus, n. [Lat.] (Anat.) The navelstring; the cord; that congreies of vessels, of artery, vein, nerve, and lymphatic, which the placenta throws out, and from the extremity of which the child, or feetus, is developed. The connecting link of nutrition and life between mother and embryo, and which on the birth of the child—a new circulation being established by the lungs—is ited and cut.

Funk, n. [Ger. funken, a spark; Icel. faki, rottenness, fana, to grow rotten.] A stink; a stench. (Vulgar.)

Funk, Funk ing, n. Great fear accompanied by bodily manifestations thereof. (A word originating and still used at the English public schools.)

wasam, russem assig, n. Great feat accompanied by bodily manifestations thereof. (A word originating and still used at the English public schools.)

Funk, v. a. To infect with a stink or stench. (Yulgar.)

—r. n. To emit or expose a stench or stink. (Yulgar.)

—To be in great bodily or mental fear; to shrink from conthing.

—To be in great bodily or mental fear; to shrink from anything.
Funk'ite, n. (Min.) A dark, olive-green coccolite (q. v.) from Boksiter in Gothland.
Funk's Grove, in Illinois, a township of McLean co., about 11 m. S.W. of Bloomington.
Funks'towm, in Maryland, a post-village of Washington co., on Antietam Creek, about 77 m. N.W. of Annapolis. nanolia

ton co., on anticiam creex, about 11 m. N.W. of Annapolis.

Funks'towm, in Pennsylvania, a village of Franklin co., about 10 m. S.E. of Chambersburg.

Fun'mel, n. [Lat. infundibulum, from in, and funders, to pour. Cf. W. flynel, an air-hole, a chimney.] A vessel or utensil for conveying itquids into close vessels: a tunnel. The shaft or hollow channel of a chimney through which smoke ascends. (Called also smoke-stuck.)

(Naut.) The chimney for carrying the smoke from the furnace to a convenient height above the deck, and at the same time the channel for securing a draught for the flues. It is ordinarily of thin iron, and of considerable diameter. They are generally made telescopic, so that when no great draught is necessary, they can be drawn beyond the reach of wind or shot.

Fun'mel-form, a. (Bot.) Applied to the calyx, corolla, or other organ, when their tube is like a funnel or inverted cone.

verted cone

verted cone.
Fun'mily, adv. In a droll or comical manner.
Fun'my, a. [From Fux, q. v.] Droll; comical; ridiculous; indicrons: mirthful.
Funn'ny Louis, in Louisiana, now CENTERVILLE, a village of Catahoula parish.
Funns'tonville, in Pennsylvania, a village of Lycoming co, on Little Muncy creek, about 60 m. N. of Harrisburg. For many years past has been called Larrosville.

VILLE

Fu'or, m. (Curpentry.) A piece nailed upon a rafter to strengthen it when decayed.

Fur, n. [Fr. fourrure, lining; L. Lat. furra; Ger. futter.] The coated skins of wild animals, especially of those of high northern latitudes; such as the wolf, bear, beaver, &c. The hair of fur is cleansed, and the skin is generally slightly tanned. The most valuable furs, such as ernine and sable, come chiefly from Russia. When unprepared, or merely dried, the fur-skins go under the name of petry. — See Furrier. See FURRIERY.

pellry.—See Furriery.

(Her.) Shields being often covered with the skins of wild animals, on which the fur was left, there came to be certain kinds of fur which were used in coat-armor, as well as in trimming and lining the roles of knights and nobles, and the mantles which were represented as surrounding their shields. The principal heraldic furs are: 1. Ermine and erminois (see Ermine). 2. Vair,







Fla. 1090. - PURA

(Fig. 1090,) which consisted of pieces of the shape of little glass pots, (Fr. verres, of which the word is a cor-

rupt spelling.) It is said that the furriers used such glasses to whiten furs in, and because they were commonly of an azure (blue) color, the fur in question came to be blazoned argent and asure; whilst counter-vair, in which the cups are represented as placed base against base, in place of edge to base, as in vair, was or and arsure. 3. Potent and counter-potent, which are supposed to resemble the heads of crutches, placed differently, but having the asure incurses.

by thaving the same incuture—vix., acure and argent.

(Chem.) The term applied to the incrustation which is formed in the interior of vessels (tea-kettles, boilers of steam-engines, &c.,) when calcareous water has been for a considerable time boiled in them. Many spring-waters contain carbonate of lime held in solution by carbonic acid. When this water is boiled, the acid is carbonic acid. When this water is boiled, the acid is expelled, and the carbonate is deposited often in association with a little sulphate, forming a lining more or less coherent upon the sides of the vessel. In steamboilers this may be prevented by the addition of a sample quantity of sal-ammoniac (hydrochlorate of ammonia) to the water; double decomposition takes place, carbon-ate of ammonia being formed and volatilized, while chloride of calcium remains in solution.

A coating of morbid matter collected on the tongue in persons affected with fever.

The downy covering on the skin of certain fruits, as a

peach. &c

a. Pertaining to, or made of, fur.

-a. Pertaining to, or made of, fur.

-v. a. To line, face, or cover with fur.

-To cover with morbid matter, as the tongue.

(Arch.) To nail slips of wood to joists, rafters, &c., to bring them to an even surface, as for lathing.

\*Rer\*Delew, n. [Fr. falbala; Sp. and Pg. faibala; Ger. fald-plat, falbel.] A piece of stuff plaited or puckered on a gown or petticost; a flounce; the plaited border of a petticost or gown. der of a petticoat or gown.

"To change a flounce, or add a furbelow.

v. a. To put a furbelow upon; to adorn with ornamental appendages of dress, or speech.

"And furbelow the plain disc

Fur bish, v. a. [Fr. fourbir, allied to Lat. purus, clean, and Eng. rub.] To rub or scour to brightness; to polish; to burnish; as, to firbish a spear or sworf problems, makes bright by rubbing; one who cleans. Fur cate, Fur cated, a. [L. Lat. furcatus, from furca, a fork.] Forked; branching like the prongs of a fork.

a fork. Furca'tion, n. A forking; a branching like the tines

of a fork.

Furciferous, a. [Lat. furcifer, a yoke-bearer, a knave, a scoundrel, from furca, a fork, a partially split stick, and ferre, to bear.] Culprits among the ancient Romans were frequently punished by having the neck inserted in a forked pieco of wood, while the hands were fastened to both ends or prongs.] Scoundrelly; knavish; rascally.
Furcula, n. [Lat. dim. of furca, a fork.] (Anat.) The

clavicle Fur'cular, a. Furcate; branching like the times of a fork.

fork.

Fureedpoor, (foored-poor') or Furippur, a town and dist, of British India, pres. Bengal; Lat. between 23° and 24° N., Lon. bet. 89° 30′ and 90° 15′ E. Its surface is low, barely rising above the level of the sea, and intersected by numerous branches or feeders of the Ganges. Area of dist. 2,052 sq. m.

Furfur, n. [Lat., bran.] Scurf or dandruff that grows upon the skin, more especially on the head, with some likeness to bran.

likeness to bran.

Furfura/coous, a. [Lat. furfuraceus, from furfur, bran.] Scaly; branny; scurfy.

(Mcd.) Applied to certain eruptions in which the cuticle peels off in scales; also to a bran-like sediment which is sometimes observed in the urine.

Furfurfuramide, n. (Chem.) A whitish, crystalline, insoluble substance formed by the action of ammonia on furfurole.

Furfura'tion, n. The falling of dandruff from the

ries was by giving them a grim and frightful aspect, black and bloody garments, serpents, instead of hair, twining round their heads, with a burning torch in one hand and a whip of scorpions in the other, and always attended by Terror, Paleness, Rage, and Death.

Furfama. (Myth.) The goddess of robbers, worshipped at Rome. Some say that she is the same as the Furies.

Her festivals were called Furincia.

Her festivals were called Purincia.
Furios'aty, n. [Lat. furionitas.] The state of being in a ruge, or of being stark mad.
Furio'se, adv. [Lt.] (Mus.) Vehemently.
Furious, a. [Fr. furieux; Lat. furious, from furery, to ruge, furie, violent passion.] Raging; fierce; violent; transported with passion.—Impetuous; vehement; as, a furious tide.—Frantic; frenzied.

"The autions of furious men and idiota."—Booker.

Fu'riously, adv. With impetuous motion or agitation; violently; vehemently.

Furficusmess, n. Impetuous motion or agitation; violently; vehemently.

Furficusmess, n. Impetuous motion or rushing; violently; vehemently.

Furficusmess, n. Impetuous motion or rushing; violent agitation.—Madness: frenzy; rage.

Furfi, v. a. [Fr. ferler, freler — allied to Eng. furdle; Ger. fardle]. (Noul.) To roll the sail up and confine it closely to the yard; the sail being gathered up by the men on the yard, the leech or edge is passed along the yard to the middle or bund, where the body of the sail, the foot and clews, are collected. In this way the sails of a man-of-war are removed nearly out of sight in an almost incredibly short space of time.

Furfloug, n. [A.S. furlang, from fur, a furrow, and lang, length.] A measure of length; the eighth part of a mile; forty poles or perches.

Furflough, (furlo.) n. [Dan. forlow; Dut. verlof; Ger. verlaub, urlaub.] (Mil.) Leave of absence from duty or service granted by a commanding officer to a non-commissioned officer or private of his command, for a limited time.

time.

time.

—v. a. (Mil.) To grant leave of absence for a limited time to a non-commissioned officer or private in the army.

Fur'menty, n. Same as Frunkry, q.v.

Fur'menty, n. Same as Frunkry, q.v.

Fur'menty, n. Same as Frunkry, q.v.

Fur'menty, n. For four continuation of the found in furnas, an oven, ferrere, to be hot.] An apparatus to contain combustible matter, and supplied with air in various ways to facilitate its combustion. Furnaces are extensively used in manufactories where great heat is required for the reduction of ores, the working or fusion of metals, and for many other purposes. They, of course, vary greatly in size, shape, and construction, according to the purposes for which they are used. In glass-works, poteries, and similar manufactories, furnaces are required that give a steady heat, and a fire sufficiently large to keep a great quan-

keepa great quan-tity of material at a high temperature. In furnaces steam-boilers, intensity of heat is not so much wanted as a great quantity for a rapid production of steam. For the smaller opera-tions in chemistry a variety of fur-



naces are in use.

Fig. 1001 represents a convenient one called the Sefstrom furnace, with which iron may be extracted from hamatite. It consists of two iron cylinders with a space (B) between them, into which the air is forced through the tube (C) by a double-action bellows. The inner cylinder has a fire-clay lining (D), through which 4 or 6 copper tubes (E) admit the blast to the fuel. The fire-clay crucible (A) contains the substance to be heated, and imbedded in the fuel. For most purposes of the laboratory, however, various forms of gas-furnaces are in use, which in many respects are greatly to be preferred to any other kind. Furnaces are divided into two kinds, air or swind furnaces, and blast furnaces. In the forms the air is conducted through the fire by the draft of a funnel or chimney, and in the latter the action of bellows, fans, or some other pneumatic apparatus supplies the air. In all ordinary furnaces a large amount of heat is wasted in the current of heated products escaping from the chimney. A portion of this heat is necessary for the draft, and in boiler-furnaces it is found that the temperature of the air escaping from the chimnes than from 500° to 600° F. In practice it is found that twice as much air must be supplied as is necessary for combustion in order to effect the removal of the products of combustion with sufficient rapidity. See Blast F., Puddling F., Reverseratory F. Fig. 1091 represents a convenient one called the Sefstron Furfurale, n. (Chem.) A substance formed by boiling furfuramide with potash. It appears in white, silky needles, and is a powerful base, forming, with acids, a sories of beautiful saits. It is isomeric with furfuramide.

Furfurole, n. [Lat. furfur, bran.] (Chem.) A pale syellow oily substance with the odor of bitter almonds, slightly soluble in water, and becoming brown on exposure to the air. It accompanies the formic seld made by distilling starchy matters with binoxide of manganese and sulphuric acid, but is prepared in quantity by distilling starchy matters with binoxide of manganese and sulphuric acid, but is prepared in quantity by distilling starchy matters with binoxide of manganese and sulphuric acid, but is prepared in quantity by distilling starchy matters with water. Form. C10HQ4.

It is also called oil of ants.

Furfurous, a. [Lat. furfur, bran.] Made or composed of bran. "Forfurous bread."—Sydney Smith.

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Furfures, n. pl. [Lat. furfur, bran.] Made or composed of bran. "Forfurous bread."—Sydney Smith.

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Furfuree, in Maryland, a post-office of Harford co. Furfuree, in Maryland, a post-office of Harford co. Furfuree, in Maryland, a post-off

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firmus, an oven, because by it bread is provided.] To supply or provide with anything wanted or necessary.

—To supply; to store, as with knowledge.—To equip; to fit up, as a house, with furniture.—To fit for an expedition; to equip, as an army, a freet, etc.

urmished, p.a. Supplied; garnished; fitted with

Fur'nisher, a. [Fr. fournisseur.] One who supplies

or fits out.

Fur nature, n. [Fr. fourniture. See FURNISH.] Goods, vessels, utensils, and other appendages, necessary or convenient for house-keeping; chattels: movables; effects.—The necessary appendages to various employments or arts; as, the furniture of a printing-press—Appendages; equipage; as, horse-furniture, table-furniture.—Ornaments; decorations.

Singer — Urnaments; decorations.

"See the barge be ready.

And \$it is with such \*\*parkieses as suits." — Stats.

(\*\*Mus.\*\*) An organ-stop or register, consisting of two or more ranks of pipes to each note, all of a higher pitch than the 15th stop.

\*\*Par\*\*\*

London in March and September of each year. Leipsicis a famous mart in this trade, and a great annual sale is held there. The prosecution of the fur-trade led to the early settlement of the western territories of the U.S. In 1762 a company was formed at New Orleans, which, in 1763, founded an establishment on the site of St. Louis, and gave it the name it now bears. It soon became a place of importance in the trade. The furraders explored the vast regions lying west of the Mississippi, and no obstacles or dangers were sufficient to long check their enterprise. Their furs, collected from the most distant sources, were run in cances down the rapids of the streams, and when necessary packed upon men's backs for transportation around fails and shoals. sissippl, and no obstacles or dangers were sufficient to long check their enterprise. Their furs, collected from the most distant sources, were run in canoes down the rapids of the streams, and when necessary packed upon men's backs for transportation around fails and shoals. At New Orleans they were exchanged for groceries, or at Mackinaw for English goods, — but little money being seen in the transactions. In 1804 the average annual value of furs collected at 8t. Louis, for the 15 preceding years, was \$203,750. The number of deer-skins was 138,000; bear, \$,100; otter, 8,000; beaver, \$6,900 lb. Of the buffalo, which is now the most important, only 850. In 1808 the Missouri Fur Company was established in St. Louis, and by them the first post was established on the Columbia River. This Company was dissolved in 1812. For 40 years, down to 1847, the annual value of the fur-trade to St. Louis is estimated to have been from \$200,000 to \$200,000; but its importance to the country at large in developing the western territorice was much greater. In 1784 John Jacob Astor embarked in the furrade. He first purchased furs in Montreal, but in 1808 he obtained a charter from the N. Y. legislature for the American Fur Co., founded with a capital of \$1,000,000. In 1811 this corporation was merged in the South West Company. In 1810 Mr. Astor was associated with the Pacific four Company, and an expedition was sent out by sea to the mouth of the Columbia, and another across the content to the same point. Similar expeditions were to be sent each year, Mr. Astor bearing the expense, and his associates who devoted themselves to the enterprise receiving half the profits. Misfortunes attended the enterprise, and in 1813 his principal Canadian partner reacherously disposed of the property and settlement on the Pacific coast to the North West Company. Mr. Astor bearing the expense, and his associates who devoted themselves to the enterprise receiving half the profits. Misfortunes attended the enterprise, and in 1813 his principal Canadi nimited to the number of 100,000. For further details on this subject, see Bering Sea Question.) There is no restriction on the hunting of other fur-bearing animals in Alaska, this being open to individual enterprise. The following are the animals whose skins are principally used for furs. The raccoon (procyon lots) is found in America. The fur of the beaver (custor Americana America The following are the animals whose skins are principally used for furs. The raccoon (procyon loko) is found in America. The fur of the beaver (castor Americanus) was formerly prized in the manufacture of hats. Che-uper materials have been substituted, and the demand has nearly ceased. It is still used for collars and gauttets. The chinchilla (chinchilla (chinchilla)), and animal between the still chinchilla (chinchilla), are used for sleigh-robes, &c., and of the brown sear (U. Isabellinus), for articles of ladies' dress. The fisher is a N. American animal larger than the sable, with longer and fuller far. Foxes, of which the most valuable is the black or silver. The lynx (felis Cunademis and Fraufa). The marten or sable; of these the most valuable is the crown or Russian, the skin of the Mustefus sibellina, the use of which is monopolised by the imperial family of Russia. The Hudson Bay sable is considered another species (M. Canademis). The pine marten (M. azzorsa), are European sables. The French excel in dyeing the latter, hence it is often known as French sable. The mink (M. vison) is found in N. America, and sometimes passed off for a real Russian sable. The ermine (M. erminea) is a small animal only 10 or 12 inches in length, resembling the common wessel. In the winter season its fur changes from a dingy brown to a pure white. It is found only in Russia, Sweden, and Norway. The lower part of the tall is jet black. Its use in some countries is restricted to the royal family. The musk-rat or musquash (fiber sibethicus); its fur is used principally by hatters. The otter (Lutra vulgaris, L. Canademis) is found mostly in America. The sea-otter of fur. It is estimated that Russia furnishes annually 23,000,000 skins. The fitch or European polecat (muscle putorius), the škunk (meplutis Americana), the glutton (pulo luscus), the rabbit, the hare, the badger, the cat, the black astrakhan lamb, and many other animals, afford furs valuable for various purposes of use or ornament. Skins are commonly only dried in the sun or before the fire, before being sent to market; sometimes they are steeped in a solution of alum. They must be perfectly dry before packing, to prevent putrefaction. When stored, they must be protected from dampness, and frequently overhauled and packed with camphor to save them from injury by moths. To dress the finer furs, they are usually placed in tubs with rancid butter, and trampled upon by the feet. The bits of fisch are removed by rubbing with a strip of iron, and

FURR

the grease removed by again trampling them with sawdust. The cutter then selects from a great number of skins parts of the same shades of color, so that when put together each article may present a uniform color. Furs for felting are cleansed of fiesh, damped and pressed straight, and then sheared, by which operation the long coarse hair is cut off clowe to the fur. The fur is then cut off with broad knives. In the case of the fur of the beaver, it is cut with a machine, but most pelts are too uneven to permit its use. Skins taken in winter are known as seasoned, and are far superior in quality to those taken at other times, which are known as seasoned. During the year ending June 30, 1896; invalue of furs and dressed fur-skins received from tor-eign countries into the U. S. amounted to \$0,383,398, while our exports were valued at 3,800,168. Most of the furs of commerce are collected from the U. S. and Canada. The chief fur market of the world is London. Fur ring, n. (Curp.) A term for slips of wood nailed to joists, rafters, &c., to bring them to an even surface by lathing, &c.

to joint, ratters, &c., to oring them to an even surnes by lathing, &c.

Fur'row, n. [A. S. fur, furh, fyrh; Ger. furche. Ct.

Lat. porca, the ridge between two furrows, so called from its resemblance to the back of a sow.] A trench in

the earth made by a plough.
"Then plows for seed the fruitful furrence broke." — Dryde "Then plows for seed the fruital furrores broks." — Drydon.

—A long narrow trench or channel in wood or metal; a groove. — A hollow made by wrinkles in the face; as, the furrows of age.

—e. a. Tocut a furrow; to make furrows in; to plough. — To make long, narrow channels or grooves in; to channel. — To wrinkle, as the face.

Furrowed, p. a. Cut in furrows; having longitudinal channels, grooves, or ridges.

Parrowy, a. Full of furrows; furrowed; as, the furrowy billows.

Furrusekabad', ("Happy Residence.") a fortified

roup billows.

Firstruckabad', ("Happy Residence,") a fortified town, and cap. of a dist., pres. Bengal, in Hindostan, abt. 1 m. from the Ganges; Lat. 27° 33' N., Lon. 70° 33' E. It is a nest, healthy place. Pop. 70,000.—The District has an area of 1,909 sq. m. Products are principally cotton,

an area of 1,909 aq. m. Products are principally cotton, tobacco, and indigo.

Fur'ry, a. Covered with fur; dressed in fur; as, a furry mantle.

Consisting of fur or skins.

To seize their furry spells."— Dryden.

Fürst, Walter, (foorst) one of the founders of Swiss freedom and independence. Heading some brave men, be took and destroyed some forts belonging to the Austrians; which was the first step, in 1307, to the restoration of Switzerland as an independent nation. See Tell, and Milchethal.

trians; which was the first step, in 1307, to the restoration of Switzerland as an independent nation. See Tril,
and MELCHTRAL.
Firrst, Dr. JULIUS, a learned Judaistic author, R. in Posen,
1805. Belonging to a Jewish family, he is one of the
best read men of the present day in Hebrew and Rabbinical lore, as well as a proficient in Gentile classical
literature. F. is Professor of Hebrew, Syriac, and Talmudical literature at Leipzig University, and has written
many learned treatises on subjects connected with the
religion, literature, and history of his people. His chief
works are the magnificent Hebrew Concordance (thick
fol., 1,428 pp.), and his Biographical Dictionary of
Emissent Hebrew Literati and Sucans. Died in 1873.
Firrst'emberg, the name of several towns in Germany,
none of them with a pop. above 2,500.
Firrst'emwalde, a town of Prussia, on the Spree, 30
m. S.E. of Berlin. Mann. Woollens and linens, with an
active river-trade.
Firrths, foort, a town of Bavaria, in Middle Franconia,

active river-trade.

Firsth, (Foort,) a town of Bavaria, in Middle Franconia, on the Regnitz, 5 m. N.W. of Nuremberg. The town is irregularly built, but contains many good houses. It has numerous factories of glass, mirrors, chandellers, and

numerous metories of games, and the fact articles.

Further, a. [A. 8. furthra, comp. of forth, far. Fornel.] More or most distant; farther; as, the fure and of the lane.—Ulterior; additional. farther; as, the further

What further need of witnesses ?" - Matt. xxvi. 65.

[A.S. furthor.] To a greater distance. tion: moreover.

tion; moreover.

-c. a. [A. S. fyrdherian; Ger. fördern.] To help forward; to promote; to advance onward; to forward; to help or assist.

"Further my design." — Dryden.

Fur'therance, s. A helping forward; promotion; advancement.

advancement.
Fur'therer, n. One who helps to advance; a promoter.
Fur'thermore, adv. Moreover; besides; in addition
to what has been said.
Fur'thermost, a. Most remote.
Fur'thest, a. [A. S. fordhest; forthest, sup. of forth,
far.] Most advanced, either in time or place.
—adv. At the greatest distance.
Fur'tive, a. [Fr. furtif; Lat. furtivus, from fur, a
thief.] Obtained by theft; stolen; sly; as, furtive
glances.

giances.
Fur'tively, adv. By stealth; in a furtive manner.
Fur'nnele, n. [Lat. furunculus, dim. of fur, a thief.
It is used also in the sense of a running sore or boil.]
(Md.) An inflammatory tumor commonly known as a

Bonl. q. v.

'm'ry, n. [Lat. furia, most frequently furiz, violent passion, from furor, a rage, from furere, to rage.] A violent rushing; an impetuous motion; as, the fury of the waves.—Rage; a storm of anger.

"I oppose my patience to his fury."—Shaks.

-Madness; frenzy.—Turbulence; flerceness; as, the fury of wild beasts.— Enthusiasm.

"Inspired with a divise fury."—Sidney.

(Myth.) One of the Furies, q.v.—Hence, a stormy, turbulent, and violent woman.

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Fu'ry-and-Hee'la Strait, in British N. America, between Cockburn Island and Melville Peninsula, con-necting Fox Channel with the Gulf of Boothia; Lat. 70° N., Lon. 85° W.

N., Lon. 85° W.

Fu'ry Point, on the W. coust of N. Somerset Island in British N. America; Lat. 70° 40′ 30″ N., Lon. 91° 52′ W.

Furze, n. [A. S. fyrz.] (Bot.). See Ulex.

Furze-chat, n. (Zoöl.) See Saxicol..

Furze-chat, a. Uvergrown with furze; full of

usagasu'ga, a river of the Republic of Colombia, enters the Magdalena river, about 52 miles W.N.W. of Fusage

der Santalacez. The species F. acuminatus yields the Quandang nut of Australia, an edible fruit resembling the almond in flavor.

the almond in flavor.

Fu'sarole, n. [Fr., from It. fusaruola, a spindle, or the shaft of a column, dim. of fuso; Lat. fusus, a spindle.]

(Arch.) A moulding or ornament placed immediately under the echinus in the Doric, Ionic, and Composite capitals; the shaft of a column, pilaster, or pillar or that part comprehended between the shaft and the capital.

Fusca'tiem., n. [Lat. fuscutio, from fuscus, dark, or dark-brown.] Act of blackening, darkening, obscuring, or rendering swarthy or dusky.

Fuscine. (fus'sic, n. [Lat. fuscus, dusky.] (Chem.)

A brown coloring-matter obtained from empyreumatic oils.

Fuscite, (fus'site,) n. [Fr. fuscite, from Lat. fuscus,

notion coloring-matter obtained from empyreumatic oils.

Finecite, (fus'site,) n. [Fr. fuscit, from Lat. fuscus, dark.] (Min.) Same as Werneritz, q.v.

Fuscobal'tia, n. (Chem.) See Coralt.

Fusc'cous, a. [Lat. fuscus, dark.] Dark; swarthy; dusky; brown.

Finec, (fusc,) v. a. [Lat. funders, furum, to pour out.]

To liquefy by heat; to render fluid: to dissolve.

-v. n. To be reduced from a solid to a fluid state by heat.

-n. (Gun.) A case of wood or metal, containing an arrangement for igniting the bursting charge in a shell.

For smooth-bored guns the fuse is ignited by the gas from the powder passing round the shell; but for rified guns by a percussive arrangement, set in action by the shock of the discharge. The fuse fits into the fuse-hole of the shell, which is sometimes furnished with a socket or pouch. or pouch.

or pouch.

Fused, p. a. Melted; liquefied.

Fused, p. a. [Fr. fusec, a spindle-full, from fuseau, a spindle: Lat. fusus.] (Horology.) In watch-making, that part of the machinery about which the chain is wound, and which is immediately acted upon by the main-apring (Fig. 1922). The use of the fusee is to equalize the action of the spring. In proportion as the spring becomes unwound, its effort continually relaxes; so that if the first wheel were attached to the barrel, as is often the case in common watches, the inequality of the impelling power would produce a corresponding inequality in the rate of going. In order to correct this, one end of the chain is attached to and wound round the barrel in which the main-spring is contained; while the other which the main-spring is contained; while the other end is coiled about the fusee, which has a conical shape,

and is fixed on the axis of the first wheel. The principle gen-erally adopted for determining the figure of a e is, that its



the figure of a fuse is, that its fuse is, the tension of the chain in that position. Within certain limits this is nearly true; and if we assume with Hooke that the force of a spring is proportional to the distance to which it is drawn from the position of rest, and also lay saids all consideration of the iength of the chain wrapt about the fusee, it would be easy to show that the fusee should be the solid generated by the revolution of the equilateral hyperbola about its asymptote. This conclusion is, however, by no means correct; but though the subject has been treated by several eminent mathematicians, very little practical investigations. In fact, a moderate approximation to the true figure (whatever that may be) is all that can be attained in practice, and indeed all that is necessary.

Fuse6e, n. [Fr. fusil, a gun, from feu. fire.] (Mil.) A light musket or firelock; a fusil. Johnson. — A fuse.

The track of a buck.

Fuse6e.a. [The muse.] of [In.] (Chem.) The hydrated

The track of a buck.

Fu'sel-oil, or Fousel-oil, n. (Chem.) The hydrated oxide of amyl.—See AMYL.

Fusibil'ity, n. [Fr. fusibilite, from Lat. fusibilite. See below.] Quality of being convertible from a solid to a fluid state by heat. With few exceptions, all solids which can bear a high temperature without undergoing chemical change, may be melted. Many substances which are popularly regarded as infusible—as, for example, platinum and fiint—readily fuse before the oxyginal platinum and fiint—readily fuse before the oxyginal states. Tasibility, n. [Fr. fusibilite, from Lat. fusibilis. See below.] Quality of being convertible from a solid to a fluid state by heat. With few exceptions, all solids which can bear a high temperature without undergoing chemical change, may be melted. Many substances which are popularly regarded as infusible—as, for example, platinum and flint—readily fuse before the oxylydrogen blow-pipe, or between the poles of a powerful galvanic battery; even carbon has been partially fused by the last-named means. There are many substances which cannot be melted because they are decomposed by the action of heat. Thus, wood and many other organic compounds are decomposed into certain gases, which escape, and into carbon and fixed salts, which are left. Similarly, carbonate of lime (chalk) is decomposed into carbonic acid gas and lime at a temperature below its fusing-point. If, however, we prevent the gas from fusingere, to beat with a club, from fusitis, a cudgel, and fusingered in the carbon fusitis, a cudgel, and fusingered in the carbon fusitis, a cudgel, and fusingered in the carbon fusitis, a cudgel, and

escaping by confining the carbonate of lime in a her-metically closed gun-barrel, it can be melted at a high furnace-heat.

netrosity chosed gui-correct, it can be motive at a linguing furnace-heat.

Fu'sible, a. [Fr., from Lat. fusibilis, from funders, fuum, to pour out, to melt.] That may be melted or liquefied.

Funsible Metals. (Chem.) Many of the alloys fuse at a temperature less than that required to melt the most fusible of their constituent metals. Thus a mixture of 8 parts bismuth, 5 of lead, and 3 of tin, melts below 212°. One of 3 parts cadmium, 15 bismuth, 8 lead, and 4 of tin, fuses at 140° F. As they expand on cooling, they are of great use to the die-sinker, who is enabled to take a sharp cast of his work at a comparatively out to the die-sinker who is enabled to take a sharp cast of his work at a comparatively out to the die-sinker who is enabled to take a sharp cast of his work at a comparatively out to the die-sinker who is enabled to take a sharp cast of his work at a comparatively out to the die-sinker who is enabled to take a sharp cast of his work at a comparatively out the die-sinker who is enabled to take a sharp cast of his work at a comparatively out.

cas compound.

a. [Fr. fusiforme, from Lat. fusus, a spindle, and forma, shape.] (Bot.) Shaped like a spindle.

Firstl, Fusile, a. [Fr. fusile; Lat. fusils, from funders, fusum, to melt.] Capable of being melted; liqueflable by leat.

"A kind of fuell marble." - Woods

Running by the force of heat.

" And the stubborn flint turn into a fuell sea." - Philips. Fu'sil, n. [Fr. fusil, a rifle; It. focile, from Lat. focus, a hearth, in L. Lat., a fire.] A small light musket or firelock.

[See Fusis.] (Her.) A bearing of a rhomboidal figure,

longer and more acute than a lozenge.

Fusaliade', m. [Fr. fusiliade, from fusil. See Suraa.]

(Mil.) A discharge of muskets; a shooting or firing.

–e. a. To shoot down by a simultaneous discharge of fire-

-v. a. To shoot down by a simultaneous uscessing to survarms.

Fusileer', Fusilier', n. [Fr. fusilier, from fusil. See SUPRA.] (Mil.) Originally, a soldier armed with the fusil. Nowaday, all regiments of foot carry the musket, or rifle, and the term Fusilier is simply an historical title borne by a few English regiments.

Fusing. p. a. Melting; liquefying.

Fusing-point. The degree of temperature at which solids assume the liquid form.

Fundam. fusilon) n. [Fr. from Lat. fusio, from fun-

solids assume the liquid form.

Fusion, ('u'shom.) n. [Fr., from Let. fusio, from fundere, fusum, to pour out or melt.] Act of melting or rendering fluid by heat, without the aid of a solvent; as, the fusion of ice.—State of being melted or dissolved by heat; a state of fluidity or flowing in consequence of heat.—"Metals in fusion do not flame." (Newton.)—The blending or uniting two or more things into one; state of being blended or united; as, the fusion of various tribes.

Fusome, a. [A. S. fla, ready, fysan, to hasten.] Handsome; neat. (Prov. Eng.)

Fusa, n. [A. S. fla, ready, quick, from fysan, to hasten.] Undue haste, bustle, or importance; tumult; much ado about trifies.

about trifles.

-v. n. To make a bustle, or ado; to be unduly anxious about trifice; as, to fuss over one's work.

Fusally, adv. In a busy manner; with overmuch

Fus: \*\*sily, adv. In a busy manner; with overmuch noise or anxiety.
Fuss \*\*ville, in Wisconsin, a P. 0. of Waukesha co.
Fuss \*\*y, a. Moving and acting with fuss; bustling.
Fust, n. [It. fusto, from Lat. fustis, a stick or staff; Fr. f@l.] (Arch.) The trunk or shaft of a column.

—A strong smell, as that of a mouldy barrel.
Fus'tet, n. [Fr. fustet; Sp. fustete; L. Lat. fustetus, from Lat. fustis, stick, staff,—sometimes, though rarely, and in baser Lat., a tree.] (Chem.) A fugitive yellow dye obtained from the wood of Rhus cotinus.
Fust'sman. [Fr. fusine.] (Manus!) A species of cot-

dye obtained from the wood of Rhus cotinus.

Fust'ism, n. [Fr. futaine.] (Manuf.) A species of cotton cloth somewhat similar in manufacture to velvet, having, in addition to the warp and weft, a species of pile, consisting of other threads doubled together, which are thrown up in ridges and conceal the original warp and weft, which are the groundwork of the fabric. When in the loom, this pile presents the appearance of a set of loops; but these are afterwards cut in two and sheared down. The fustian, when polished and finished, presents an evenly-ribbed surface on the exterior. The sheared down. The fustian, when polished and finished, presents an evenly-ribbed surface on the exterior. The best descriptions of this class of goods are those known as cotton-relvet and velveten; but besides these there are moleskin, corduroy, and several other kinds. For further information on the subject see Waxving. (Lit.) A forced, bombastic style of writing, abounding with metaphors or other rhetorical figures.

Mere stuff, bombast; an inflated style of writing; a swalling style

swelling style.

"Chance thoughts, when govern'd by the close, Oft rise to fustian, or descend to proce."—Smith. Made of the stuff called fustian.

agere, to drive.] Act of beating with a club: a cudget ling: a beating with a stick or cane.

Fus'timess. n. [See Fust.] An ill smell from mouldiness, or mouldiness itself.

Fus'ty, a. [See Fust.] Mouldy; ill-smelling: rank; rancid. "The fusty plebeians."—Shaks.

Fu'sure, n. [Lat. fusura, from fundere, fusus, to melt.] Same as Fusion, q. v. (a.)

Fu'tak, a town of Lower Hungary, co. of the Lower Bacs, on the Danube; Lat. 45° 15' N., Lon. 19° 42' W. It has great trade in grain, and is frequented by merchants from Turkey, Greece, and Armenia. Pop. (1895) 5,100.

5,100.
Futtle, a. [Fr., from Lat. futilis, fundibilis, easily poured out, from fundere, fusum, to pour out.] Pouring forth nonsense; loquacious: talkative; tattling; silly; as, a futile tongue.— 'iriding: trivial: frivole'us: unimportant; uselees; worthese: as, futile arguments.
Futtlely, ade. In a futile manner.
Futtl'ty, n. [Fr. futilit]: Lat. futilities. See Supra.]
Quality of being trivial or trifling; unimportance; emptiness: worthlessness; uselessness.
Futtenghur', or Futtygur', (Futaghur, the fort of victory,) a town of Hindostan, and a military station on the Gangee, 3 m. from Furruckabad; Lat. 270 22' N, Lon. 790 41' E.
Futtenpor', or Futtensess', lander lat. 270 22' N, Lon. 790 41' E.

Lon. 79" 41" E.

"uttehpoor", or Futtehpur", a large inland town
of Hindostan, prov. of Allahabad, cap. of district of
same name, 60 m. N.W. of Allahabad; Lat. 25" 56" N.
Lon. 80" 45" E. It contains an elegant mosque. Po.
17,000.—The district extends the entire breadth of the

17.000.—The district extends the entire breadth of the Doab from the Jumna to the Ganges. Area, 1,583 sq. m. It is a cotton-growing district.

Futtipoor Sik'ra, an inland town of Hindostan, prov. Agra, 19 m. from the city of Agra. It was a favorite residence of the Emperor Akber. The town is built of stone, and contains the remains of Akber's palace, and the tombs of several of his family.

Fut'toek, n. (Probably foot-hock, or corrupted from foot-lock.) (Ship-builting.) The name given to the midue timbers between the floor and the upper timbers. — F. shrouds are small shrouds leading from the shrouds of the main. nizzen. and foremasts of ships to the shrouds of the top-masts. In Fig. 1094, a a mast or sings to the survius or the top-masts. In Fig. 1094, a a are dead-eyes, b b futtock-plates, and c c futtock-shrouds. Fut'urre, a. [Fr. futur: Lat. fu-turus, pp. of ess, to be.] That is to be or come hereafter.

"See future sons and daughters t unborn."—Milton.

Future tense. (Grammar.) The tense of a verb which expresses a future act or event.

a nume act or event.

7. Time subsequent to the present.

Fut'urist, n. One who looks forward to the future, with expectation of benefit or advantage.

(Theol.) One who holds that the prophecies of the

Fig. 1094.

(Theol.) One who holds that the prophecies of the Bible are yet to be fulfilled.

Futuritial, a. Same as Future, q. v. (r.)

Futurition, (fü-lü-rish'um,) n. The condition of being to come to pass hereafter.

"To hang loose in respect of futuritien."—South.

Futu'rity, n. [Fr. futuriti; Lat. futuritas, from futurus.] State of being yet to come.—Time to come; turus.] State o

" Skilled in dark futurity."-Pope

Full'wa, a town of Hindostan, in the prov. of Bahar. It stands at the confluence of the Ganges and Punpun: Lat. 25° 30' N. Lon. 85° 28' E. The Ganges is here deemed peculiarly secred, and great numbers of pilgrims resort to the town.

30 m. from Viborg, in the Linnford; area, 11 sq. miles.

Fuze, n. Same as Fuse, q. v.
Fuze, n. [Dut. ross, spongy; Ger. fasig, fibrous, from
fase, a fibre.] Fine, light particles; loose, volatile matter.

matter.

v. n. To fly off in light or minute particles.

Fusa-ball, (furbawl.) n. A kind of fungus, which, when pressed, bursts and scatters a fine dust; a puffball; a blind-ball.

Dall: a Dind-ball.
Fun'xy, a. [From Fuzz, q.v.] Rough and shaggy; light and spongy. (Prov. Eng.)
Fy, or Fie, interj. [A.S. fian, to hate. Cf. Ger. pfui; Fr. f.] A word which expresses abhorrence, dislike, disgust, disapprobation, or contempt.

A bawd, sir ? fy upon him !"-Sh

Fy'ers, or Foyers. (/n'ers,) a small river of Scotland, in Invernessire, falling into Loch Ness. It has 2 fine falls—one 70, the other 207 feet high.

Fyke, n. [Dut. fuk, a bow-net.] A bow-net for catch-

Fyke, n. [1701. 7100.]
ing fish.
Fyme, (Loch.) (fine,) a lake or inlet of the sea in Argyleshire, Scotland, beginning between the islands of Arran and Bute, and for about 40 m. separating the districts of Cowal and Kintyre.

Fy wie, (five,) a twn and parish of Aberdeenshire, Scotland, 25 m. from Aberdeen: pop. 4.400.

Fyzabad', ("a beautiful residence,") a city of Hindostan, in the prov. of Oude, on the Gogra, 4 m. from the city of Oude; Lat. 26° 47' N., Lon. 82° 10' E. Fremerly the cap. of Oude.



# F.—SECTION II.

## FACT

FAIR

Fa'biam Socil'ety. A socialistic organization in England which advocates "the reorganization of society by the emancipation of land and industrial capital from individual and class ownership, and the vesting of them

kngiand which advocates "the reorganization of society by the emancipation of land and industrial capital from individual and class ownership, and the vesting of them in the community for the general benefit."

Fac'titive, a. (Gram.) Denoting a verb, or an adjective or noun in predicate, when the action of the verb produces an effect upon the direct object that is expressed by that adjective or noun; as, It makes me glad; they elected him president.

Fac'tor of Safe'ty. (Engineering.) The ratio of the breaking strength of a structure or substance to the contemplated strain or pressure to which it is to be exposed. For buildings subjected to quiet loads, this is taken at about 15 for stone and brick work, 8 for timber, 6 for cast iron, 5 for steel, and 4 for wrought iron. Much higher ratios are used for bridges and machinery subject to shocks. The F. of S. varies greatly on account of differing qualities in materials and the varying judgment of designers, and is often so uncertain that it has been called a factor of ignorance.

Fac'tory Sys' term. (Mansf. and Econ.) During the 18th and preceding centuries, systems of manufacture were largely individual, being confined to the houses of artisans, or carried on in workshops of small size, with few hands. The invention of the steam-engine has changed all that, and in the latter part of the 18th and throughout the 19th century a new system has grown up, in which manufacturing is carried on in large workshops or factories, with powerful engines and labor-eaving machines; the result being a great reduction in cost of operation, with which hand-work cannot compete, and a vast increase in output, sufficient to meet the greatly augmented demand, which the domestic system of production would be quite inadequate to meet. The rapid extension of the F. S., with its absorption of small enterprises and breaking up of the preceding system, has not been accomplished without considerable output and the suffering and bitter opposition; nor without the development of serious abuses, tem, has not been accomplished without considerable suffering and bitter opposition; nor without the development of serious abuses, which are, fortunately, being rapidly reduced. As regards the domestic system, it has not yet quite passed away, though now carried on to supply stores and factories rather than customers; and from the recent exposure of its conditions, as existing among the clothing makers of New York, its immediate abolition would be much more of a blessing than a misfortune.—Early Conditions. The F. 8. had its origin about 1760-70, this being the period in which the use of power machinery began actively to supplant that of hand implements. In the U. 8. the domestic system of labor prevailed during the Colonial period and until after the Revolution. In the succeeding years the introduction of the spinning and other machines of England stimulated invention, and considerable activity in this direction began. The F. 8. in the U. 8. was thus later in origin than that of Great Britain, but its development was much more rapid and many more industries ment was much more rapid and many more industries have come under its operations. Power spinning machines were first introduced in Massachusetts and have come under its operations. Power spinning machines were first introduced in Massachusetts and Rhode Island, the first American cotton factory being erected in the former State, while the use of English inventions began in a Rhode Island cotton factory in 1790. Since then the F.S. has had very rapid development and the productive capacity of the U.S. has grown mormously great. Perils of the System. The F.S., as we have said, has not been free from evils, though its advantages have been many and great. The evils ordinarily charged against it—charges which cannot all be substantiated—are the following: It is charged with the employment of young children to an injurious extent, and of women to a degree that tends to destroy family ties and domestic habits; it is further claimed to be injurious to health; to be productive of intemperance, thriftlessness and poverty; to foster prostitution and encourage crime, and to tend to intellectual degenerary. Of these charges the first is the one that has most cogency. The employment of children of tender age, during long hours, was one of the most serious evils of the F.S. It was, however, in no sense a necessary element of the situation, but arose from the cupidity of mill owners and the sharpness of competition. It needed only an awakening of public opinion and the passage of restrictive laws for its amelioration. Such laws have been passed and child-labor in factories is now stricty limited to those beyond a certain age, and the hours of labor have been considerably reduced. This system is not yet, by any means, all that it should be; but the crying evil, which it formerly constituted, no passed and child-labor in factories is now stricty limited to those beyond a certain age, and the hours of labor have been considerably reduced. This system is not yet, by any means, all that it should be; but the crying evil, which it formerly constituted, no

longer exists. The employment of women in factories is injurious to the home only in the case of married women, much infant mortality seeming to have arisen from the neglect of children, while doniestic duties are necessarily sadly neglected. This evil, however, is in some measure curing itself, the number of married women employed in factories showing signs of decrease. The home seems to have suffered more in the U.S. than in Europe from the F.S., the tenement house and factory boarding house of this country being two features of the system which are quite unknown in Europe. These are gradually disappearing in the U.S., and the individual home is increasing in influence. It is pleasant to be able to state that in the city of Philadelphia, long the leading manufacturing city of the U.S., these institutions have gained no footing, the workingman's home having from the first been an established institution. At present that city stands first in the world for its great number of small, well-built and comfortable workmen's residences, many of them provided with the principal modern household excessions. first in the world for its great number of small, well-built and comfortable workmen's residences, many of them provided with the principal modern household conveniences.—Hijsry to Health. The charge that the factory is injurious to health cannot well be maintained, as compared with the domestic workshop of the past. No doubt, there have been many unsanitary conditions connected with the factories of the past; but official inspection has removed many of these and the modern, well-managed factory, with its large, light and well-ventilated rooms, seems immensely in advance of the close, dark, nucleanly, and unventilated household workroom of the past, which certainly must have been far more injurious to health than the factory of to-day. Intemperance can in no sense be claimed as a resultant of the F. S., further than the bringing together of many workmen in contracted localities may be conducive to it. Certainly intemperance has greatly decreased within the past century, its culminating point having been reached in the 18th century. Thriftlessness and poverty are constant accompaniments of ignorance and lack of orethought, and owe their prevalence to no industrial system. They have long been rather diminishing than increasing, and abject poverty has never been more prevalent than during the period of domestic manufacture. The charge that the F. S. conduces to crime and prostitution is unfounded. Statistics indicate the contrary, and the regular employment and settled habits of life to which it gives rise are strong influences in facture. The charge that the F. S. conduces to crime and prostitution is unfounded. Statistics indicate the contrary, and the regular employment and settled habits of life to which it gives rise are strong influences in opposition to the growth of these evils. The charge of intellectual degeneracy is equally unfounded. The education of children employed in factories has not been neglected, but is probably considerably superior to that which they received under the preceding system. This is steadily becoming more markedly the case, while certainly the workmen in factories are not deficient in mental powers. The confining of operatives to the control of a single machine, or some special process in a series of operations, is of course not conducive to mental activity, as compared with the former system, in which each man comprehended the whole art and mystery of his trade. But the surroundings of the factory, the libraries and reading rooms, the workmen's clubs, and other organizations which have grown pin factory towns, go far to counteract this influence, and to make the workman wide awake to the modern movements of thought and events. One evil result of the F. S. has been the reduction of the workman from the independent position which he once occupied as a manufacturer and merchant, to the dependent one of an employee in a great system of labor. But the development of Labor Unions and the effect of strikes have in a measure overcome this evil, making the workman once more in some degree master of the situation, and lifting him largely from the condition of semi-serfhood opment of Labor Chinos and the elect of strakes have in a measure overcome this evil, making the workman once more in some degree master of the situation, and lifting him largely from the condition of semi-serfhood which he occupied in the early days of the system.—

Economic Advantages. The economic advantages of the F. S. arise from the increase of wages, the great augmentation of production, the decrease in the price of goods, and the diminution in the hours of labor, with the greater regularity of employment due to the ability of capitalists to store goods while waiting for a market. The hours of labor have been reduced from 13 or 14 hours a day to 10, and in some lines of labor to 8 or 9; while the average rate of wages has considerably increased. The stringent system of factory inspection now inaugurated in many of the States is going far to overcome the evils of lack of sanitation, undue child labor, &c., formerly prevailing; and the F. S. may be held to have fairly passed through its early

imperfect stages of development and to have reached a position of general superiority to the preceding system— —one which promises a future of marked advantage to the industrial interests of mankind.

Fac'ultative, a. Producing faculty or efficiency; enabling; empowering. (Law.) Pertaining to a right or authority which can authorize or permit the exercise of other rights or

privileges.

ad, v. i. To act idly; to busy one's self with trifies; to

potter.

—s. Something that temporarily engages the attention of an individual or of society; a popular whim; a hobby. Faced, John, painter, born at Burlay Mill, Kircudbright, Scotland, in 1820; resided in Edinburgh, 1841–62; associate of the Royal Scottish Academy. His best pictures were of domestic life and rural scenes. Exhibited in the Royal Academy, London, 1861; the following year he removed to that city, but in 1880 returned to his native town in Scotland.

were of undester in and runal sections. Emiliated in the Boyal Academy, London, 1861; the following year he removed to that city, but in 1880 returned to his native town in Scotland.

Faced, Thomas, painter, brother of the foregoing, born at Burlay Mill, in 1826; associate of the Royal Scottiah Academy, an honor conferred upon him after the exhibition of his picture of Sir Wulter Scott and his Friends at Abbotsford. In 1861 he was made A. B. A., and in 1864 R. A. Resided in London after 1852.

Failly, Charles Achille, Dr. soldier, born at Rosoysur-Serre, Aisne, France, Jan. 21, 1810; was commander of a brigade in the Crimean war, and in the war against Austria; received the grand cross of the Legion of Honor; subsequently deprived of his command of the Fifth army corps for not going to the support of MacMahon at Worth and for alleged general incompetency. In his Operations of Marches da Cinquième Corps, he attempted to justify his position. Died in 1892.

Fails bairm, Anders Martin, theologian, born near Edinburgh, Nov. 4, 1838; graduated from Edinburgh University (1860); student of theology at Evangelical Union Hall, Glasgow (1856-61); pupil of Dorner in Germany; was pastor of an Independent Church in Scotland, and principal of Airedale College, England (1877-86). In the latter year became first principal of Mansfield College, Oxford; was appointed Muir lecturer in the University of Edinburgh (1878). His works include: Stadies in the Life of Christ; Religion in History and Life of To-day; The Place of Christ in Theology; The City of God. &c.

Fair bairm, Sir William, Bart, civil engineer, born at Keiso, Scotland, Feb. 19, 1789. He was the first of his countrymen to construct an iron ship, his firm eventually building over a hundred, from the smallest war vessel to those of 2,600 tons. In co-operation with Robert Stephenson he designed and constructed the great tubular bridge across the Menal Strait; was one of the founders of the British Association for the Advancement of Science, of which he was afterward pre

Governor of Vermont (1851 and 1869). Died Nov. 20, 1864.

Fair'bury, in Nebraska, a city, capital of Jefferson co., on C., R. I. & P. and St. J. & G. I. R.Rs., 60 m. S.S.W. of Lincoln; has flour mills, 6undary, soap works and nurseries. Pop. (1897) about 3,500.

Fair'chance, in Permapleania, a post-borough of Fayette co., on B. & O. and Penna. R.Rs.; has furnaces and manufactures of bricks and coke. Pop. (1890) 1,092.

Fair'child, Charles Sterbins, lawyer, politician and financier; born at Carenovia, N. Y., April 30, 1842; graduated from Harvard (1863) and Harvard 1863 and Harvard 1876-77) after serving one year as deputy; in 1880 engaged in law practice in New York (ity; became Assistant Scretary of the U. S. Treasury in 1885, succeeding to the portfolio upon the resignation of Secretary Manning, April 1, 1887. At the close of his term F. returned to New

Tork, where he has since been engaged in banking operations, being also an important factor in the so-called "sound money" wing of the Democratic party.

Fairchafid, James Harris, D.D., theologian and author, born at Stockbridge, Mass., Nov. 25, 1817; graduated from Oberlin College (1838), of which he was afterward president. He is the author of: Moral Philosophy; Oberlin, the Chlony and the College, &c.; The Elements of Theology, Natural and Reveuled; and has edited the Memoirs of Fiancy, and Finney's Systematic Theology.

Theology.

Pairchild, Lucius, soldier, stateman and diplomat, was born at Kent, Portage co., Ohio, Dec. 27, 1831; educated at Cleveland, and removed with his family to Madison, Wisconsin, about 1846; crossed the plains, with an exteam, to California in 1849, and spent six was in an external the statement without notable, sucyears in and around the mines without notable suc-cess; returned to Marlison (1855) studied law, became court clerk in 1858 and was admitted to the bar in 1860. Upon the outbreak of the Civil War he entered the Federal service as captain in the 1st Wisconsin; after 3 months service reënlisted as major of the 2nd Wisconsin volunteers and captain in the 16th Infantry, U. S. A., being the first regular army officer who was given per-mission to serve with the volunteers. In August, 1862, he became colonel of the 2nd Wisconsin regiment, and left a sick bed to take part in the battle of Antietam At Gettysburg (July 1, 1863) he lost his left arm at the head of his command, and on October 19 was promoted and fert short of the take part in the battles of Anticana At Gettysburg (July 1, 1863) he lost his left arm at the head of his command, and on October 19 was promoted brigadier-general. The following month was elected Secretary of State of Wisconsin, and resigned to accept that office. F. was elected governor of Wisconsin (1864) and served six full terms; was U. S. consul at Liverpool (1872), and consul-general at Paris (1878); was subsequently U. S. minister to Spain, resigning that post in 1882. He was chosen commander-in-chief of the Grand Army of the Republic in 1886, serving one year, and commander-in-chief of the Military Order of the Loyal Legion in 1894; also held many other positions of honor and trust. Died May 23, 1896.

Fair chied, in Wisconsin, a post-village of Eau Claire co., on two lines of railroad; has manufacturers of lumber, &c. Pop. (1897) about 800.

Fair fax, Donald McNeil, rear admiral U. S. navy; born in Virginia, Aug. 10, 1823; entered the navy as midshipman Aug. 12, 1837. While in command of monitor Nastacks took part in the first attack upon Fort Sunter, and as commander of the monitor Mondank was engaged in all the fights with the forts and defenses of Charleston Harbor which occurred during July and August, 1863; lecame rear-admiral in 1880. Died at Hagerstown, Md., Jan. 10, 1894.

Fair mount, in Nebraska, a city of Fillmore co., on C. B. & Q. and St. J. & G. I. B. Rs., 53 m. W.S.W. of Lincoln; has elevators, flour mills and other important industries. Pop. (1897), 1,029.

Faith eeure, s. A problematical system under which it is claimed that allments can be cured without remedies, and through the exercise of faith alone. The faith seems to be in the power of certain individuals to produce this result, or in certain objects, such as an image of the Virgin or other religious emblems. Numerous remarkable results are stated to have occurred, though it has not been scientifically demonstrated that

though it has not been scientifically demonstrated that any serious allments have been in this way removed. any serious aliments have been in this way removed. Other systems, known as Christian Science, Metaphysical Healing, &c., seem based on the same principle, though the advocates of these hold that faith is not necessary. It is an undoubted fact that the mind has a vigorous influence over the condition of the body, and that a strong belief in the probability of a cure has often been followed by a cure, without medicine or through the use of an inactive substitute for medicine. But, though a person by exertion of his own mental powers may exercise a curative influence over the disorders of his body, it does not follow that another person can do so; and the claim that one person can, by mental exertion, affect the mind, and through it the body of another, needs much additional evidence before it can be accepted as an established fact.

Fatth/full, Ent.y, philanthropist, born at Hedley rectory, Surrey, England, in 1835; educated at Kensington. Much of her time has been devoted to the advancement of women, and despite many difficulties

sington. Much of her time has been devoted to the advancement of women, and despite many difficulties she succeeded (1860) in establishing a printing house in which women were employed. In 1863 the Victoria Miguzine appeared, and continued for eighteen years to urge the right of women to remunerative employment. Miss F. has lectured extensively in the U. S., and wrote a characteristic novel entitled Change upon Change.

Died June 3, 1895.

Fake, n. [Swed. veck, fold.] A coil or turn of a cable or hawser.

To coil or fold, as a line or cable; to stow in a fak v.a. To ing-box.

-e. d. To coil or fold, as a fine or case; w stow in a maing-box.

Fake, n. [Possibly from Lat. facia, make.] (Slang.)
Anything prepared with intent to deceive, especially a false article in a newspaper; any awindle, or the author of one.—A poor or fraudulent article or worthless thing offered for sale at the price of an article of value.

-e. a. To misrepresent with a purpose to deceive.

-e. n. To contrive falsely or fraudulently.

Fa'ker. n. One who fakes or deceives. A street-vender who sells trashy articles.

Fal'com, Jean Chrisostomo, general and statesman; born on the peninsula of Paraquana, province of Coro (now Falon), 1820. He commanded the revolution of the federalists in Coro (1858); was at first repulsed, but was afterwards successful. He was made president of Venezuela, but deprived of the office in the Azul revolution, when he retired to Europe. His party again

(SECTION II.)

coming into power, he was recalled, but died on his way home, April 29, 1880.

Falconer, Hugh, F.R.S., botanist and palseontologist; burn at Ferres, Scutland, September 29, 1008; graduated from Aberdeen and Edinburg, receiving the degrees of M.A. and M.D. While practicing as a surgeon in India, he began palseontological explorations in the Sivalik Hills, and was made superintendent of the botanical garden at Scharanpoor and afterwards of the botanical garden at Calcutts; received the Woolston medal (1837). He published Funna Antiqua Sicalensis; Selections from the Bostin of Suadi, &c. Died in London, July 31, 1866. July 31, 1865.

Home from the Bostin of Standi, &c. Died in London, July 31, 1865.

Fal'comer, in New York, a post-village of Chautauqua co., on D., A. V. & P., and Erie B.Rs., 32 m. S.E. of Dunkirk. Pop. (1890) 574.

Falguire, Jean Alexander Joseph, sculptor and figure painter, born at Toulouse, France, Sept. 7, 1831; pupil of Jouffry and winner of the Grand Prix of Rome (sculptore). His work, both in painting and sculptore, is of high grade. Of the former are Snauma; Wrestlers; and Fun and Poignard; and of the latter, Ohristian Martyr; Diana, &c. F. is an officer of the Legion of Honor and a member of the Institute; his studio is in Paris.

Fall River, in S. Dakota, a S. W. co.; area, 1,770 sq. m. Intersected by south fork of Cheyenne river. Surface, broken and rugged in the north, high upland and river valleys in the south. Soil, rich. Cap. Hot Springs. Pop. (1893) 4,168.

Fallows (Jül-W') Fringer Alfred Pirers, Vicomer De; author and politician, born at Augers, France, May 7, 1811; was mude the lander of the Cabulla parts with.

valleys in the south. Soul, rich. Cap. Hot Springs. Pop. (1853) 4,168.

Falloux (fül-w') Frinteric Alper Pirere, Viconte de l'author and politician, born at Augers, Fiance, May 7, 1811; was mude the leader of the Catholic party; withdrew from political life in 1851. He was the author of Histoire de Pie V.; Madame Swetchine, so vie et see awere; two volumes of political speeches and writings, &c. Died Jan. 6, 1886.

Fallows, Samuel, D.D., theologian, author and soldier; horn at Pendleton, near Manchester, Eng., Dec. 13, 1836; has resided in the U.S. since 1845; graduated from University of Wisconsin (1859); was ordained a minister of the Methodist Episcopal Church. Entered the Civil War as chaplain, subsequently engaging in active service and attaining the rank of Drigadier-general; held several important educational positions; was made bishop of the Reformed Episcopal Church on July 15, 1876, since which time he has resided in Chicago.

Fam, Pow'er. (Mech.) A form of blowing nischine in which the air blast is produced on the principle of the ordinary fan. The common blast fan consists of a wheel whose arms are free, or not joined by a circular rim, and whose sides are tipped with vares or blades for catching the air. This is usually placed in an eccentric position inside a chest or wind-tight covering, with central openings on each side for the admission of air and an exit pipe in its outer portion. The fan, made to revolve swiftly by steam or other power, sucks in the air at the central openings, draws it toward the tips of the blades, and impels it forcibly forward, driving it through the exit pipe. These fans are used for such purposes as the melting of iron in foundry cupolas and for forge firea, also for the winnowing of corn, and as an exhaust to withdraw foul air from mines, buildings and slips. For mines they are occasionally made of a very large size. P. F. of different formation are also and slips. For mines they are occasionally made of a very large size. P. F. of different formation are also in use to create a gentle breeze in stores and other large rooms, for purposes of ventilation and cooling. Thee are composed of two long narrow blades, driven b steam or electric power, and revolving freely at moder

steam or electric power, and revolving freely at moderate speed, keeping the air of the room in constant motion. See Fan, Section I.

Fam'wood, in New Jersey, a post-town of Union co., on C. R.R. of N. J., 20 m. W.S.W. of Jersey City; has manufactures of fur and paper board. Pop. (1897) about 2,500.

Far Rock'away, in New York, a post-village and bathing place of Queens co., on Long Island, 20 m. from New York City, on Long Island R. R.; has manufactures of ice and furniture. Pop. (1890) 2,288.

Farada'ic. a. Pertaining to Michael Faraday, the English electrician.

**arada'ic.** a. Pe English electrician.

English electrician.

Farrad'ite, a. Pertaining to the phenomena of induced electric currents, as investigated by Faraday.

Far'del, a. [Old Fr. fardel, a little pack.] A bundle or pack; anything burdensome.

Far'go, in North Dakota, a city, cap. of Cass co., on Red River at the head of navigation, and C., M. & St. P., N. P., and G. N. R. Rs., 253 m. W. of Duluth; has mills, breweries, oil warehouses, manufactures of carriages, plows, reapers and mowing machines. The State Agricultural College is situated here. Pop. (1890) 5,664.

Far'sma, in Illinois, a post-town of Fayette co., on Ill. Cent. R. R., 65 m. E. of St. Louis, Mo.; has flour mills and manufactures of fruit boxes. Pop. (1890) 618.

Far'geon, BENJANIN LEOPOLD, novelist, born in England in 1833; was for some years engaged in journalism in Australia and New Zesaland. He has written a number of novels representing life among the lower classes.

ber of novels representing life among the lower classes These include: London's Heart; Grif; Toilers of Baby

nnee incine: London's Heart; Gry; Touers of Balo-lon, &c.

\*ar'mer, in New York, a post-village of Seneca co., on Lehigh Val. R. R., 75 m. S. E. of Rochester; has large neck-yoke factory, creamery, canning factory and man-ufactures of fruit baskets and barrel heads. Pop. (1897) about 750.

about 750.

Farmer City, in Illinois, a post-village of DeWitt co., 25 m. 8. E. of Bloomington, on C., C., C. & St. L., and Ill. Cent. R. Rs.; has flour, lumber and planing mills, manufactures of brick and tiles, and is a shipping point for grain and live stock. Pop. (1890) 1.367.

Far'mers' Alli'ance. (Am. Hist.) This is the general term for an association of agriculturists which,

with various designations, has existed since 1873. Antedating this was the secret order of the Patrons of Husbandry, formed in Washington in 1867, with a National Grange, and which established over 27,000 subordinate Granges in 44 States and territories, with a subordinate Granges in 42 States and territories, with a membership numbering hundreds of thousands. The first F. A. appears to have been organized in Texas in 1873, for the purpose of cooperation against cattle-thieves; but as its members increased its scope was widened. In 1887 its membership was over 100,000, and it consolidated with the Farmers' Union, of Louisian beautiful for the property of the property and it consolidated with the Fairmers' Union, of Louis-iana, becoming incorporated under the laws of the Dis-trict of Columbia as the National Farmers' Alliance and Colperative Union. In 1880 the National Agricul-tural Wheel was formed in Arkansas, and soon spread into other States. These two organizations were con-solidated at St. Louis, Mo., Oct. I, 1889, under the name of the National Farmers' Alliance and Industrial Union, with a membership then estimated at from 1,600,000 to 2,500,000. This society is in active operation in all the southern and western States (except Ohio and Wycom-ing) and in New York, New Jersey and Pennsyivania. Another organization called the National Farmers' Alliance was formed in Chicago in 1880, and is now this Another organization called the National Farmers' Alli-ance was formed in Chicago in 1880, and is now the general representative of State alliances organized in Illinois, Judiana, Iowa, Minnesota, Missouri, Montana, Nebraska, New York, North and South Dakota, Ohio, Pennsylvania, Washington and Wisconsin. These asso-Pennsylvania, Washington and Wisconsin. These associations claim to be non-partisan and non-political, and aim to secure the general welfare of the farmer. Their conventions, however, have adopted platforms that by no means ignore political questions, and they have, no doubt, been influential in shaping legislation, both State and national, in the interest of the farmer and the agricultural sections of the country.

\*\*Far'mers' Im'stitutes.\*\* Periodical meetings of farmers, under the suspices, direct or indirect, of a State government, for the consideration of questions relating to agricultural affairs. There is usually a central organization, vested in some agricultural college or society of the State, which arranges the meetings and sends lecturers to the local institutes to coöperate with the neighborhood speakers. The meetings, usually held in

the state, which arranges the meetings and sends lecturers to the local institutes to cobperate with the neighborhood speakers. The meetings, usually held in the winter, last from one to several days, and yield opportunities for a thorough discussions of all agricultural problems interesting to the farmers concerned. Funds for the support of these institutes are appropriated by about thirty of the States, New York being the highest, with \$15,000 annually. About \$100,000 are expeuded annually for this purpose in the U. S. and Canada. The first active effort to establish a system of itinerant agricultural lectures was made by the New York State Agricultural Society, in 1842-43, followed by a similar movement by the Massachusette State Board of Agriculture, in 1859, and by the State Board of Agriculture of Michigan, in 1861. The growth of F. I. has been most pronounced since 1880, and has stimulated the organization of many county institutes and farmers' clubs, in this manner reaching nearly every farming community of the North and to a less extent those of the South.

arm'ham, Roswell, soldier and politician, born in

Farm'hams, Roswell, soldier and politician, born in Boston, July 23, 1827, removed to Bradford, Vt. (1840); graduated from Vermont University (1849), studied law and was admitted to the bar (1857); lieutenant in 1st Vermont infantry (1862), captain of Bradford Guards (1862), lieutenant-colonel of 12th Vermont infantry (1883); State Senator (1868-69); delegate to Republican national convention and a presidential elector (1876); Governor of Vermont (1880-82).

Farr, William, physician; born at Kenley, Shropahire, England, November 30, 1807; studied at the Universities of Paris and London, and graduated from University College; made a specialty of the study of statistics of epidemics and the length of human life, and is the author of many valuable reports on these subjects; was a frequent contributor to the British Annals of Medicina and McCulloch's Statistical Account of the British Empire; was elected Fellow of the Royal Suciety, and received from the University of Oxford the degree of D.C.L. Died April 14, 1883.

was elected Fellow of the Royal Society, and received from the University of Oxford the degree of D.C.L. Died April 14, 1883.

Far'rar, Frederick William, D., divine and author, born in Bombay, India, Aug. 7, 1831; graduated from Cambridge (1864). He was master of Mariborough College, canon, and later archdeacon, of Westminster, chaplain of the House of Commons, also chaplain-in-ordinary to the Queen; became dean of Canterbury in 1895. He has written some novels and several notable philosophical and theological works. These include: St. Wisifred's; Darkness and Darn; Origin and Language; Greek Grammar Rules; The Early Boys of Christianity, &c. He lectured in the U.S. in 1885.

Far'rer, Henry, artist; born in London, England, March 23, 1843; removed to New York in his youth; made a specialty of etching and water colors; has been secretary of the American Water Color Society, and president of the New York Etching Club. Some of his landscapes and twilight effects are of surpassing beauty.

Far'well, in Michigas, a post-village of Clare co., on F. & P. M. R. B., 55 m. W. N. W. of Saginaw; has a flour mill, several saw and shingle mills, and manufactures of pail, tub and peary handles. Pop. (1885) 568.

Fash'cion-plate, m. A pictorial representation of the prevailing styles, or newly adopted styles, of dress.

Fast-tatying, Fast-in-stays, a. (Yaching.) Quick in going about.

Fatigue' of Mater'sals. (Engineering.) Injury arising from stresses which exceed the eleastic limit. A bar of iron, for instance, may have an elastic limit. A bar of iron, for instance, may have an elastic limit of 20,000 lbs. per sq. inch and a breaking resistance of 50,000 lbs.; but if stresses in excess of 20,000 lbs., be

playees, the abolition of religious tests at universities, compulsory education, and other politice-social problems. His works include a Mansul of Political Economy, which has passed through several editions: The Economic Position of the British Laborer; Pauperism; a volume of Speeckes; &c. Died November 6, 1884.

Featin'er, a. A flu or wing in the shaft of an arrow, or the end of the arrow where these are fastened.—A rib for stiffening a casting.—(Curp.) A tongue on the edge of a board, fitting into a channel on the edge of another.—(Mack.) A slip inserted longitudinally into a shaft or arror and projecting as a fin so as to fit a groove in the edge of a wheel, which may have a longitudinal motion in the shaft, but no rotation.

—s. a. (Curp.) To join boards together by tonguing or grooving.

or grouving

or groving.

Peash ering, a. Small branches of the elm tree.
(Art.) A deep etching, in the aquatint process, where
the impression is to be very dark.

Peasth erstom haungh, Gorgoz Williams, British
traveler and author, born in 1780; was the commissioner appointed by Great British to settle the norther
boundary of the U. S. under the Ashburton treaty.
Traveled widely in the U. S., describing his journeys
in: Excursions Through the Stare States; Geology of Green
Bay and Wisconsin; Camos Voyage to the Minnesota, &c.
Died Sept. 28, 1864. d Sept. 28, 1866.

Boy and Wisconsin; Camos Voyage to the Minnesota, &c. Died Sept. 28, 1868.

Feath 'erweight, a. (Sports.) A boxer weighing 118 ba. or less, being the class next below the middleweight; also, a wrestler of about the same weight.—A jackey weighing net more than 77 ba.

Fecht'mer, Gustav Theodon, scientist, born at Gross, Särchen, Germany, April 19, 1801; studied at Sorau-Dresden and Liepzig; professor of physics at Liepzig (1834-39); was an able writer on chemistry, medical science, antiquities, &c. His important works are: I sher das Höschets Gut; Elemente der Psycophysik, &c. Under the pen-name Dr. Mies, he wrote poetry, criticisms, and humorous literature. Died Nov. 18, 1887.

Fecht'ser, Charles Albert, actor, born in London, Oct. 23, 1824; was educated in England and France, and gave some attention to the study of sculpture, which pursuit he abandoned for the stage. On the French stage his first success was as Deval, in La Dome can Cassellias; he leased the London Lyceum Theater, in 1863, and subsequently played in the principal cities of the U.S.; was for a season manager of the Gloic Theater, in Boston. Died at Quakertown, Pa., Aug. 5, 1879.

'elech, Alphatos, Ll.D., lawyer, born in Limerick, York co., Me., Sept. 28, 1806; graduated at Bowdoin College; entered the practice of law in Michigan, and became judge of the State Supreme Court; governor of Michigan (1846-47), and U. S. Senator (1847-53); was also a Commissioner of the California land claims, and professor of Law in Michigan University. Died June 13, 1896.

1896.
Pessee-liz'ard, a. The common lizard (Sceloporus sundulatus) of the United States, of various hues, usually groeuish and dark above, with wavy cross-bands. Fess' tom. Revens. Earon, statesman; born at Carroll, N. Y., July 4, 1819; educated at the academies of Pleasant Hill and Fredonia; began the practice of law at Jamestown, N. Y., but subsequently became a merchant. He was a member of Congress (1857-65); governor of New York (1865-69); and was chairman of the U. S. Commission at the International Monetary Conference in Paris (1878). Died at Jamestown, N. Y., August 25, 1885.

25, 1885. \*Pem'wiek, John R., soldier; born at Charleston, S. C., in 1780; educated in England; entered the military service of the U. S. in 1799; was promoted to the captaincy of the marine corps, and afterward appointed lieutenant-colonel of artillery, serving with honor in the war of 1812-15. He reached the rank of brevet brigadier-general, March 18, 1823, and died at Marseilles, France, March 19, 1842.

mechanics; was elected a fellow of the Royal Society, and a member of the American Philosophical Society. Author of: Astronomy Explained; Lectures on Subjects in Mechanics; Hydrostatics, Pheumatics and Optics, &c. Died in London, Nov. 16, 1776.

Fergusom, Jamza, astronomer; born in Perthehire, Scotland, Aug. 31, 1797; became a resident of New York in 1840. He was made assistant civil engineer on the Eric Canal (1817); afterward employed in various surveys. During his service as assistant astronomer at the U. S. Naval Observatory, he discovered the asteroids Euphrosyne, Virginia, and Echo. The Academy of Science of France awarded him the astronomical prize medal in 1854, and again in 1860. He contributed to several journals and magazines. Died Sept. 26, 1867.

Ferman dies die Cantero, Manuel, geologist, horn at Madrid, Spain, Dec. 26, 1825; graduate of the School of Mines, Madrid (1844); subsequently travelled and made a study of the railroad signals having since been wielly adopted. He was made professor in the Madrid School of Mines, and elected to the Spanish Senate to represent the Cuban province of Santa Clars. The government published his La electricidad y los cominos de Aisvro; and he has published a treatise on hurricanes, and many geological papers.

Fer mow, Bernhard Edward, forester, born Jan. 7, 1861, in Inowraclaw, province of Posen, Prussia; studied at the Forest Academy of Münden and the University of Königsberg, making a specialty of forestry and law; was employed by the government in its forestry depart.

of Königsberg, making a specialty of forestry and law; was employed by the government in its forestry department; engaged in the Franco-German War, and came to the U. S. in 1876, where he was made (1886) head of the forestry division of the U. S. Department of Agriculture. He has published numerous reports, bulletins and addresses. and address

Fern'wood, in Illinois, a suburb of Chicago, 12 m. S.

Fern'wood, in Illinois, a suburb of Chicago, 12 m. S. of Madison St., annexed to the city in November, 1890; on Chic. & E. Ill. R. R. Pop. (1890) 818.

Fern'wood, in Pennsylvania, a post-village of Delaware co., 4½ m. W. of Philadelphia, on Phil., Wilm. & Balt. R. R.; has a cotton mill and woollen mill. Pop. (1890) 612.

(1890) 512.

\*\*Perra'ril, Paolo, dramatist, born at Modens, Italy, in 1822. His Goldowi s le sue sedici Commedie, and Purini s la Satira hold high rank among modern Italian comedies. He was professor of history at Modena and also at the Academy of Milan. Died March 10, 1889.

at the Academy of Milan. Died March 10, 1889. Fer'rier, Davin, neurologist; born at Aberdeen, Scotland, in 1843. Graduated with honors from the Universities of Aberdeen and Elinburgh, and was awarded the gold medal for his thesis entitled Comparative Anatomy of the Corpora Quadrigenism. Besides other appointments, he was made physician to King's College hospital for the paralyzed and epileptic. He is the author of:

The Functions of the Brain; Localization of Cerebral Disease, and numerous valuable papers on cerebro-spinal diseases.

diseases.

\*Perfis, Grozow W., engineer, born at Galesburg, Ill.,

Feb. 14, 1859; his early life was spent in Carson City,

Nevada, and San Francisco; graduated in engineering

from Renseelser Polytechnic Institute, Troy, N. Y.

(1881); was employed in mining and railroad work in

West Virginia, and then as engineer in a bridge works

at Louisville; went to Pittsburg (1892) to superintend

the structural work being made for the bridge across

the Ohio at Henderson, Ky., and while thus engaged

designed the gigantic revolving wheel which he subsequently built and exhibited at the Columbian Exposition,

and which was one of the mechanical wonders of that

quently built and exhibited at the Columbian Exposition, and which was one of the mechanical wonders of that great exhibition. Died at Pittsburg, Nov. 22, 1896. Fer'ry, Julias François Camille, journalist and statesman; born at St. Dié, Françe, April 5, 1832; began the practice of law (1851); was returned to the Corps Legislatif from Paris (1860); was minister of Public Instruction and Fine Arts (1879-80 and 1882). His education bill, forbidding Jesuits to teach in the schools, caused great excitement in Françe, and his enforcement of the law led to the downfall of the ministry. The war in Tonquin, which was the result of his colonial policy, was so managed that he was forced to resign. He was candidate for the Presidency in 1887, but was defeated; was re-elected to the Chamber in 1890, and subsequently made senator; elected president of the Senate on February 25, 1893; but died on March 17, following. F. was a brilliant journalist and influential leader in French politics.

politics. \*Perf\*ry, ORRIS SANFORD, soldier and statesman, born at Bethel, Conn., Aug. 15, 1823; graduated from Yale (1844), and was admitted to the bar (1846); was a lieutenant-colonel of Connecticut militia (1847), prolate judge, district of Norwalk (1849), State senator (1856-56), member of Congress (1859); served in the Federal army during the Civil War, rising from the rank of colonel to that of brigadier-general; U. S. Senator from 1867 until his death, Nov. 21, 1875.

often applied a change takes place in the molecular structure, brittleness superveines, and the fron may reactive, brittleness superveines, and the front may reactive, but the first rail that the materials in permanent structures shall not be strained beyond the elastic limit, and fix the factor of safety with this in view. Formula exist under which engineers make allowance for the F. of M. due to repeated stresses.

Paul R., in South Dakota, a central co.; crea, 1010 ag. m. Partity bounded by the Arkansas river. Surface. Undulating, Sol. Fertile. Cop. Faulkton. Pop. (1895) 3.30.

Paul R. of Redfield. Co. (100, corn., and pork are three forms of the following the following forms of the following the only one which is to-day of universal application—is that arising from the operation of the farm itself, that known as manure. In this may be included every form of decomposing vegetable and animal matter, brought to a condition that adapts it to ready ningling with the the soil. But, as study of the nature of soils went on, they were found to need other ingredients than these of the stable compost heap; some demanding phosphorus, others lime, others potsals, while nitrates in some form were demanded by all soils. The farm itself supplies the basis of nitrates in the ammonia of the manure heap, while another source of nitrogen is obtained by many farmers through the plowing under of fields of clover, a plant known to be rich in nitrogenous material. But the farm itself is incapable of supplying all the fertilizing material needed in the exhaustive agriculture of modern times, and part of the requisite ingredients must be obtained from some outside source. The F thus used may be divided into two classes, the natural and the attificial; that is, those used directly in their natural state, and those produced by mechanical or chemical processes. Knowledge of the needs of soils has greatly progressed within the 19th century, through a study of the chemical constituents of soil and plants, and experiments in supplying different plant foods to soils. Soils are not only very complex in their natural makeup, but different crops assimilate different proportions of their constituents; so that each soil and each crop needs some special treatment. F. are for this reason often misapplied. The soil may have an excess of nitrogenous and phosphatic matter, while the crops will be starved from the lack of one of the minor element of plant food, such as lime or potsals. Such F, as guano and bone-dust do not supply a sufficiency of potsah to the soil, and soils fertilized with these materials for a number of years will become so poor in this element that, though rich in nitrogen and phosphorus, they will no longer yield a good a potash fertilizer in such a case will cause an immediate increase of product. Lime and gypsum, which are usually mixed with potash manures, do not act directly as nutriment, but aid growth by indirect action. The same is the case with most maris. Their action is to dissolve and set free substances which were already present in the soil, but in a condition unavailable or plant food. Thus, carbonic acid has a solvent effect on silicates and nitrates; and when a soil contains potash in an insoluble condition, lime will act to set free part of the potash, taking its place. Other salts are also thus set free, and these, being carried down by rains, served to feed plants having deeply penetrating roots. Other substances act in a similar indirect manner. Among these, of late discovery, are the minute organisms known as bacteria, which exist abundantly in all rich soils, and exert a most beneficial effect in bringing nitrogen into a condition to serve as plant food. See NITRIFICATION.

NATURAL FERTILIZERS.—Of the fertilizers provided NATURAL FERTILIERS.—Of the iertilizers provided by nature, ground has long been one of the most valuable. This is the result of the droppings of birds for ages on certain occanic islands, together with fragments of their foods and their dead bodies. It occurs many localities, but the richest known hed is that of the Chincha islands, off the coast of Peru, which are situated in a rule has perfect and their material the affective and many localities, but the richest known bed is that of the Chinchs islands, off the coast of Peru, which are situated in a raluless region, and thus retain the nitrogen and phosphorus of their guano much more fully than other guanos. This deposit is practically exhausted; but guano of inferior condition is obtained from various other localities.—Nitrate of soda exists native in Chili, as part of an earth called calicke or terra solitrosa—perhajas the result of a former guano bed. It is abundant in quantity, and contains from 50 to 75 per cent. of the nitrate, with a considerable proportion of common salt. It is exported under the name of "Chili saltpetre."—Phosphates. Of phosphatic fertilizers, the most abundant sources are the phosphate rocks of South Carolina and Florida. Those of South Carolina cover an area of 70 by 30 miles but are most accessible at a radius of about 8 miles from Charleston, where they are largely worked. The beds of Florida also yield an abundant store of this valuable fertilizer. The rock known as apatife, a plusphate of lime, is also employed to some extent for fertilizing purposes.—Of other natural F. may be named coprolites, or fossilizad animal excrements, of which con-

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siderable deposits exist in some localities; gypsum, or sulphate of lime, which supplies soils with lime and sulphuric acid, of use principally for their indirect action on the insoluble constituents of the soil; sail, which has its value as a stimulant; margi, the green-sand or glanconite beds which occur near the U. S. seacoast, from New Jersey to Louisiana, and which contain potash and phosphoric acid; and kaisata, potash salt derived from the salt mines of Stassfurth, Germany.

ARTICIAL FERTILIERS.—These are made from various kinds of organic waste, and also from the natural F. A valuable one, from the amount of nutrogen it containa, is fish gueno, obtained both from fish refuse, and from fish taken from the sea for direct conversion into this material. Other nitrogenous fertilizers are the skins, horns, flesh, bonea, blood, &c., of cattle and other animals, which are largely worked into fertilizers in South America, where numbers of cattle are killed for their hides alone. Poudrette, or human excrement, is a fertilizer largely used in France, and in smaller quantities in some other countries. For ages this fertilizing material has been returned directly to the soil of those countries in a constantly rich state. Phosphatic blood guano is a moisture of dry powdered blood with dissolved bones, potash and soda. Such vegetable refuse as cotton seed, oil-cake, the waste from breweries, starch and sugar works, &c., is also used for fertilizing purposes; while of the phosphatic fertilizing room of the chief is made from the bones of animals, which are rich in lime phosphate. These are used in the form of bone dust, or are treated with acids, which change their phosphate into superphosphates, which are very beneficial to pastures and to crops cultivated for their roots or tubers. Wood ashes contain about 5 per cent. of potash; and unleached ashes, from timber grown on strong soils, contain still more. Such ashes are also rich in lime, phosphoric acid, slica, magnesia, and iron, and are very useful as fertilizers. L

Fetch'ing, a. (Collog.) Attractive; calculated to attract attention and elicit admiration; as, a fetching

costume.

Feydeau (fā-do'), Ernest, French novelist; born in 1821; his stories are descriptions of life in the time of the Empire and depict its worst features. His best work was Spirie. Died in 1873.

Fi'at Mom'ey. (Fin.) Any currency, whether of paper or metal, that is placed in circulation and maintained as legal tender by the command (fat) of a government or other competent power. The term is iained as legal tender by the command (fiat) of a government or other competent power. The term is generally, though loosely, applied to a paper currency the substance of which is valueless, and for which redemption in a specified commodity is not promised, but which has been endowed by law with the legal tender quality; as distinguished from legal tender coins composed of metal supposedly equal in value to the face of same, or a paper currency bearing on its face a credible promise of redemption on demand in a so-called precious metal. See Money.

Fidd'alle, s. (Naul.) A frame of bars and strings to keep things from rolling off the cabin table in rough weather.

Field, Cyrus West, whose name is identified with sub-matine telegraphy, was born in Stockbridge, Mass., in 1819; became a clerk and afterward a merchant in New marine telegraphy, was born in Stockbridge, Mass., In 1819; became a clerk and afterward a merchant in New York city, and grew prosperous in business. In 1853 he became interested in the work of a company which was engaged in building a telegraph line across Newfoundland, with the purpose of making submarine connection with the mainland. Conceiving the larger purpose of connecting America and Europe by telegraph, F. organized, in conjunction with Peter Cooper, Moses Taylor, and other capitalists, the New York, Newfoundland & London Telegraphic Co., and in 1856 the Atlantic Telegraph Co. Devoting himself entirely to the work thus projected, he crossed the ocean nearly 30 times in its presecution, and in 1857 made the first effort to lay a cable under the Atlantic. This failed, as did a subsequent attempt in the spring of 1858, but in August of that year a cable was successfully laid, and for the first time man sent his thoughts beneath the sea. This cable ceased to work while its success was heing celebrated in New York, but F. continued his exertions during the American civil war, and in 1865 a new attempt to lay a cable was made. This failed through the parting of the cable in mid-ocean. In 1866 the effort was renewed, as before with the aid of the steamship Great Eustern, and this time with success. The result was received with the greatest enthusiasm on both sides of the Atlantic, and F. received a gold medal at Liverpool, a vote of thanks from the Congress of the U.S., and marks of honor from various European institutions. In 1871 he was one of the originators of a company which proposed to lay a cable across the

Pacific, via the Sandwich Islands, to Japan and China. He became afterward earnestly engaged in the rapid-transit problem of New York, and worked with energy in promoting the building of the elevated railway system in that city. He died in New York, July 12,

He became afterward earnestly engaged in the rapidtransit problem of New York, and worked with energy
in promoting the building of the elevated railway
system in that city. He died in New York, July 12,
1892.

Field, DAVID DUDLEY, LLD., jurist; born at Haddam.
Conn., Feb. 13, 1895; educated at Williams College, and
studied law. After his admittance to the bar he practiced in New York, soon gaining prominence in his
profession, the study of law reform occupying the time
not given to active practics. He was one of the Commission appointed (1867) by the Legislature of New
York to revise and codify the legal procedures of that
State, and his code of civil procedure, partly adopted by
the State of New York, has since been adopted by
the State of New York, has since been adopted by
the State of New York, has since been adopted by
the State of New York, has since been adopted by
twenty-seven States and Territories. An International
Association of which he was one of the founders has for
its object the reforming and codifying the laws of
nations and the substitution of arbitration for war. He
was a member of Congress (1877), and published The
Electoral Votes of 1870, and Speckes and Arguments before
the Supreme Court of the U. S. Died April 13, 1894.

Field, Eugens, Journalist and poet, born in St. Louis,
Mo., Sept. 2, 1800; studied at the University of Missouri.
His chief journalistic work was done as a member of
the staff of the Chicago Daily Netz. His books of verse
have been widely read, the poems on child-life being
deservedly popular. They include: A Little Book of Westroll and Company of the Atlantic Telegroph.

Field, Ennar Marryn, D.D., theologian and author;
born at Stockbridge, Mass., April 3, 1822. Graduated
from Williams college, (1838), and studied theology at
East Windsor and New Harn. His first charge was
in St. Louis, Mo. the became pastor of a congregational
church in West Springfield, Mass. (1851), removed to
N. Y. (1864) and became one of the eldiors of the
Ecangelist, of which he was afterw

holes or pores in wood to prepare it for painting small

Rivers. W. Fork of Big Blue river, and Turkey creek. Surface, nearly level, and soil fertile. Cap. Geneva. Prop. (1890) 16,022.
Filtra'tion of Water. (Sanitary Eng.) The water which was long furnished to many cities for drinking purposes, and which is still supplied in various instances, was and is unsuited for the purpose intended, being in some cases actually poisonous from the deleterious character of its contents. Originally, as a rule, it carried nothing more injurious to health than the mineral ingredients washed down from its sources and held in solution. But as the area of settlement grow, and towns and villages arose on the banks of streams supplying water to cities lower down, sewage and the liquid waste of manufactories became mingled with the water, and it grew more and more dangerous to drink, water, and it grew more and more dangerous to drink, largely from the germs of certain epidemic diseases which it bore. As an example of this evil, it will suffice to mention the cholera epidemic at Hamburg

(1892), which was traced very directly to the use of impure river water. How best to overcome this nuesses state of affairs is one of the leading problems in modern city management. Few cities can wait upon the slow process of reservoir subsidence, even if that could be trusted to remedy the evil. To bring water from new and pure sources at great distances is a costly process, with the danger of after-contamination of these sources. This being the case, filtration is looked to as the quick est, cheapest and most practical method of overcoming the difficulty; and, in consequence, many cities have provided themselves with filtering plants on a scale sufficient for the purpose. The methods of filtration resurted to are practically two in number—sand filtration and iron filtration—the character of each of which may be briefly described.

In advance, it may be said, that deposition and filtration, if properly conducted, give us clearer and purer

cient for the purpose. The methods of filtration resorted to are practically two in number—sand filtration—the character of each of which may be briefly described.

In advance, it may be said, that deposition and filtration, if properly conducted, give us clearer and purer water than can ordinarily be had from natural sources; for not only is the suspended matter removed, but it is now known that filtration removes from water most—and in some instances all—of its pathogenic germs.

Sand Filters.—In the construction of a sand filter bed, the kind ordinarily used, a water-tight tank of some 12 feet in depth is provided, of an area in accordance with the quantity of water to be treated, an acre being sufficient for about 2,000,000 gailous a day. In the method now employed in Loudon, Berlin, and some other cities, the concrete floor of the tank is covered with round tiles of three to four inches diameter, laid closely together. These are covered with about a foot of coarse gravel or broken stone, above which is a layer of sand 3 or 4 feet deep. Above the sand the water to be filtered stands at a depth of three or four feet. The bottom of the tank alopes downward in all directions toward a draw-off outlet. Through this the filtered water passes at the speed necessary to carry the water through the sand at the required rate, this being controlled by devices for adjusting the "head" at which the water flows off. The rate varies onsiderably in different cases, a good average being 50 gallons per eq. foot in 24 hours. The quantity passing per foot being known, it is easy to calculate the area necessary to filter any fixed volume of water, though an extra filtering area must be provided to permit an occasional removal and washing of the upper layer of sand. Experiment has shown that it is in this upper layer that the most essential duty of the filter is perfounded. There gradually gathers upon it a deposit which has a remarkable power of preventing the passage of microbic gathers, it is left clear, pure, and wholesome fo The purined water now passes to a sand filter, on whose surface a film of oxide is deposited, which seems to have the power to retain microbes. One advantage of the employment of the iron filter is that this layer is formed immediately; while in the case of ordinary and filtration, days pass before the layer is fully formed and the work of purification grows complete. The first employment of iron filters on a large scale was in 1881, at the Antwerp water-works, to deal with the highly contaminated water of the river Nethe. It here proved very successful, converting this liquid filth into a transparent and pure drinking water. It has since been employed in other parts of Europe, in the U.S., and India. Other methods of filtration have been employed, alum being one of the ingredients used; but sand filtration is the method most commonly adopted, and, wherever properly tested, with highly favorable results. The one chief difficulty in the way is the constitution as the constitution is the subject is still in the experimental stage, and new experience is being annually gained concerning it.

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Ky.; was superintendent of the Baltimore and the Louisville and Nashville railroads; president of the American Society of Civil Engineer, &c. Died

in 1897.

\*Har'lany, Gronge, LL.D., historian, born of Scottlah parents near Faversham, England, Dec. 23, 1799; educated at Glasgow and Grittingen; alded the Greeks (1823) in their struggle for independence, and for the rest of his life resided in Greece, making a study of its history and antiquities. He has published: History of Greece from its Conquest by the Crusaders to that by the Turks, 1201-1598 A.D.; History of the Byzantine Empire, 716-1057 A.D.; The Empire of Trebisond, 1201-1461, &c. Died at Athens, Jan. 26, 1875.

Died at Athena, Jan. 26, 1875.

Fim'ley, John Park, author, born at Ann Arbor, Mich, April II, 1854; student of the State Normal School and State Agricultural College of Michigan; awarded the degree of M. S. from the latter; was officer in charge of the Pacific coast division of the Weather Service, &c., and is the author of papers on Tornados; Sailors' Handbook of Storm-trick, Fog., and Ice Charts of the North Allentic and Gulf of Mexico; has given special attention to the study of tornadosa. to the study of tornadoes.

Munic and Gulf of Mexico; has given special attention to the study of tornadoes.

Fischey, Charles G., clergyman and educator, born in Coun, 1792. He alendoned law for the pulpit, was president of Olerlin College from 1852-66. He was a noted revivalist, and author of several volumes of lecture, &c. Died in 1875.

Fischey, in Kussens, a S. W. co.; area, 864 sq. m. Surface, undulating prairie; soil, very fertile under the system of irrigating causle in operation. A fine stock oranty. Products, wheat, oats, sweet and Irish potatos, alfalfa, wool and live stock. Cap. Garden City. Pop. (1895) 3,563.

Fissels, Friederich Herrmann Otto, Ph.D., ornithologist and explorer; born August 8, 1839, at Warmbrum, Silesia, Pruenda; was assistant in the Museum of Leyden, Holland, and afterward director of the Museum of Natural History and Ethnology at Bremen. During his travels, which have been extensive, he has made large collections for natural history. The result of his exploration of the coast from Vulcan Island to Humboldt Bay, was the establishment of the German mulectoria over what is known as Kaiser Wilhalm

of his exploration of the coast from Vulcan Island to Humb-lidt Bay, was the establishment of the German protectorate over what is known as Kaiser Wilhelm Island. His numerous publications include Authropologische Ergebnisse einer Beise in der Büdsee; Verzeichniss siner Summlung von Moori Autiquitaten any Nenuecland, &c. Pierel'II., GIUNEFPE, archeologist, born at Naples, Italy, June 8, 1823. Gained distinction as director of the Pompeilan explorations; was made (by Victor Emanuel) chief director of the excavations of the whole kingdom, and professor of archaeology in the University of Naples; was editor of the Giornale dei Sossi; published important maps and reports of his

Some published important maps and reports of his work. Was elected senator in 1865.

Fire Depart/mem 8, s. A division of the public service whose duty it is to provide the necessary force and apparatus for the prevention and extinguishing of

fire.

Fire-armor. a. A device to protect firemen and others against the effects of smoke, gas, etc. The first patent given for a device of this kind in the U. 8. was granted to W. H. James, in 1828, for a diving dress which he stated could be used "in mines and other places filled with deleterious gases." Air was supplied from a receiver worn around the waist to a mask which cooleand the wearer's face, devices to prevent too great. from a receiver worn around the waist to a mask which seclosed the weare's face, devices to prevent too great pressure from the compressed air being added. Other and simpler apparatuses on the same principle were afterward produced, of which one named the "eye and lung protector," was first used in 1873. This was adapted to protect the eyes from the effects of smoke, dust, &c., with plates of transparent mice for vision. To protect the lungs a certain kind of porous cloth covered the lower part of the face, which held a wet sponge against the mouth and nestrils. This kept out all dust, smoke, noxious gases, &c., and also cooled the air respired. It has been used with very satisfactory effect. At a trial in Toronto, Canada, persons remained for nearly a half-hour in an atmosphere of smoke from damp straw and tobacco stems, which could not be searly a half-hour in an atmosphere of amoke from damp straw and tobacco stems, which could not be endured for more than a minute without the protector. In the handling of grain while loading vessels from elevators, a dust muxtle or respirator is used to keep out the fine dust which arises. This consists of a perforated metallic chamber holding some filtering material against the respiratory passages. With suitable eye-protection this would make a simple and useful fireman's mask. An elastic band passing around the head holds these devices in place. In 1888 a method of supplying a fireman with fresh air was devised by forcing six to the fireman's mask through a tipe carried along grying a freman with fresh air was devised by forcing air to the fireman's mask through a pipe carried along the hose. Improvements on this plan have since heen made, with various methods of keeping up a supply of respirable air.

two pieces of soft dry wood, one of which is made to revolve rapidly on the other, evolving fire in less than two minutes.

Fire-kind'ler, fire-light'er, a. An inflammable composition for quickly starting fires.

Fire-making, s. (Nothrop.) The art of producing fire. The connection between the use of fire and human culture, civilization, and progress, would be interesting to trace. There is no well authenticated instance on record of the existence of a tribe absolutely ignorant of the use of fire; yet it is believed by some that there was a time when man was without fire. In Greek mythology, Prometheus is represented as bringing fire from the sun, teaching man the use of it and the arts depending or its use, thus becoming the benefactor of the human race. By some philologists the name Prometheus is derived from a word meaning "fire-stick." If this be correct, it may signify the method of producing fire by means of a stick and groove—the oldest method known and still, or until recently, in use in the South Sea. Islands—a blunt-pointed stick being run along a groove of its own making in a piece of wood lying on the ground. A modification of this is the fire-drill (q. v.). These methods of getting fire by friction were followed by the method of concussion, which may have been suggested in the process of making implements of stone; as in the chipping of the stone, sparks would be elicited. The ancients used a piece of pyrites—firestones—striking it with a fint or with a piece of steel. The Greeks, in the time of Aristophanes, knew how to concentrate the sun's rays with a burning glase; and the Romans in the age of the Pliny (A.D. 23-79), effected the same results by means of concave mirrors. The tinder-box, with fint and steel, has been used within the memory of the present generation, till superseded by the friction match, now universally employed. See March.

Fire'-preof, a. Proof against destruction by fire; incombustible; as, a \*\*Re-proof\* building.—Designed to

MATCH.

Fire'-proof, a. Proof against destruction by fire; incombustible; as, a fre-proof building.—Designed to protect from fire; as a fire-proof dress.

-c. a. To render fire-proof; as, to fire-proof a dress material. See Fire-proofing.

Fire'-proof Build'angs. (Arch.) Structures that are, as nearly as possible, rendered free from danger of destruction by fire. However desirable it is that dwelling-houses, ware-posses storage. As should be readdestruction by fire. However desirable it is that dwelling-houses, warehouses, stores, &c., should be made absolutely proof against fire, the problem has not yet been solved, though many so-called F. B. are constructed and are approximately such. No building material has been found that will entirely withstand the energy of intense heat. The problem is two-fold: protection must be afforded both within and without. To prevent a building from taking fire without, the walls should be of brick or stone, with iron doors, stone or iron lintels, casings, &c., with iron window-shutters, and the roof of iron or arched bricks or stone-work, no wood being anywhere used. Prevention within should be secured by iron doors, iron or stone stairways, stone or concrete by iron doors, iron or stone stairways, stone or concrete floors; and if any wood is used, it should be coated with silicate of soda. The greatest care should be exercised in the construction of the apparatus for heating and lighting. lighting.

Pire-proof Safe. A safe for the protection of valu-

Fire-proof Safe. A safe for the protection of valuables in case of the burning of the building containing it. While not absolutely fire-proof, it is practically so, being made to withstand a very intense heat. It is an American invention of recent date. Sometime about 1830, James Conner, a New York type-founder, conceived the idea of making an iron bux fire-proof by lining it with plaster of Paris, but did not patent his invention. About a dozen years later the idea began to developed by others. Many substance have been used for lining, the most approved, probably, being ground alum mixed with some absorbent medium like sawdust, powdered plaster of Paris, or infusorial earth. Sealed tubes containing water or some vapor-producing substance that would give off steam when heated, have also been tried. Large safes, imbedded in brick, pus-in when a building is made, are doubly protected, and have proved most effective.

also been tried. Large saies, innected in rices, parindens when a building is made, are doubly protected, and have proved most effective.

Fire-proofing, w. The process of rendering meterial of any kind incombustible or incapable of taking fire easily. For wood, a solution of silicate of sods is used, which, when strongly heated, fuses into a kind of glass, forming a shield against fire. Several coats should be given the wood, so that not only the surface but also a portion of the interior may be affected. Textile fabrics may be impregnated with borax, alum, phosphate of sods, or ammonia. By treating cloth with graphite in a bath in which the mineral is suspended, and then subjecting it to the action of the electrometallic bath, the cloth may be coated with metal. A weak solution of chloride of zinc has been employed for fire-proofing light fabrics.

Fire-spot, w. (Arcksol.) A bowl-shaped depression in the ground, common in Scandinavian countries, contributions.

for fire-proofing light fabrics.

Fire'-spot, m. (Arcksol.) A bowl-shaped depression in the ground, common in Scandinavian countries, containing calcined bones, ashes, &c., supposed to be the vestige of an ancient funeral pyre.

Fire'-trap, m. A building known to be dangerously inflammable, or difficult to escape from in case of fire. Fire'water, m. Intoxicating drink of any kind; so called by the North American Indians.

Fine de siecle (fding deh si-dk\*). [Fr., end of the century.] (Used adjectively.) Appropriate to the period; up to date; advanced; progressive.

Final, s. A last thing; that which makes an end; a final canse; in college, a last examination before graduating. (Frequently used in the plural.)

(Fise.) In the Gregorian modes, the note corresponding to the tonic in the modern scale.

Fine-drill, s. A drilling of firemen, or of children at school, or of employees in a building, to prepare them for proper action in case of a fire.—A contrivance used by savages for producing fire by friction, consisting of two take them except on credit.

Fink. Albert, civil engineer, born near Frankforton-the-Main, Germany, Oct. 27, 1827; studied at the Polytechnic School in Darmstadt, subsequently emigrating to the U. S.; was inventor of the "Fink truss," and the Louisville, and Nasiville railroads; president and the Louisville and Nasiville railroads; president of the Louisville and Nasiville Geschichte der neuern Fallosophie; he also der Logie und Metophysik, oder Wissenscheftslehre, & der Dish, Hamilton, lawyer and statesman, born in New York, in 1808, the son of Nicholas F, an officer of the Revolution and president of the N. Y. Society of the Cincinnati. Graduating at Columbia College in 1828, he was admitted to the bar in 1830, and in 1834 began his political career as a member of the Whig party. Having served for several years as commissioner of deeds, he became a member of the State legislature in 1837, of Congress in 1842, was elected lieutenant-govornor of New York in 1847, governor in 1849, and U. S. Senator, 1851-67. In 1862 he served as a commissioner with Bishop Ames to visit Union soldiers in Confederate prisons, and negotiated a general exchange of prisoners. In 1869 he was appointed Secretary of State by President Grant and was re-appointed in 1873, serving through the whole administration. Mr. F. became a member of the Republican party on its formation, opposed the repeal of the Missouri Compromise, and after the Civil War is credited with suggesting the Joint High Commission for the settlement of difficulties of the Carlon of the Carlon of the Carlon of the Carlon of the States. In 1871 he was one of the commissioners who negotiated the treaty of Washington. He also extiled the dispute of

opposed the repeal of the Missouri Compromise, and after the Civil War is credited with suggesting the Joint High Commission for the settlement of difficulties between Great Britain and the United States. In 1871 he was one of the commissioners who negotiated the treaty of Washington. He also settled the dispute, of long standing, with Great Britain concerning the U. S. northwestern boundary, and the complication with Spain arising from the Virginius affair. Died Sept. 7, 1883. Fish Commission.

Fish Commission. The U. S. Fish Commission, established in 1871, has for its purpose an investigation into the food, habits and localities of edible fishes and their propagation and distribution. Under the presidency of Spencer F. Baird (and of George Brown Goode and Marshall M. Donald, since Prof. Baird's death in 1887) its work has been of the highest importance. Besides its investigations of rivers, lakes, and coast waters, it has made valuable deep-see explorations, and performed work of the utmost value in the propagation of fish. (See Fish Culture). The work of the Commission is supplemented by that of State fish commissions, which have done efficient service more locally. Fish Cull'unre or Piscelutiure, s. The artificial propagation of fish, as a means of counteracting the destructive effect of fisheries. Nature has provided a sort of balance between the predatory onelaughts of the more powerful carnivorous fishes and the great powers of reproduction of the weaker kinds; but this balance has been seriously disturbed by man with his nets and lines, which have placed many of the weaker food fishes at a disadvantage in the struggle for existence. It is not easy to exterminate a species, but timuniers may be so reduced as to destroy the value of the fishery; while certain species have probably quite disappeared through man's persistent and ill-considered onslaughts. The destruction which has taken place is not due alone to over-fishing, but much of it has taken place in fivers and his products of mines, factories and arrive at the conception of stripping the ova from the female sha and mingling them with milt taken from the male, now so largely practiced and with such important results. This art was first devised by Stephen L. Jacobi, of Westphalia, in 1763, and was carried on to some small extent in England and France until 1860, when the first government F. C. station was established at Huningue, in Alsace. As experience added to knowledge of the best methods of operation, the art developed; wide distribution of ova and young fry was made, various species of food fishes being thus distributed to new waters in their own country and in some instances sent to far distant lands.—United States Fish Culture. The art of F. C., although not originated in the United States, has attained greater development here than in any other country, through the energetic labors of the Fish Commission and of the commissions appointed by many of the States. The apparatus for hatching fish ova and for caring for the fry until old enough to plant in streams, has gradually been perfected, and only a small percentage of lose is now experienced. To prevent destruction of the ova by fungl, a constant motion of the water is necessary. In this direction M Donald's fish-hatching jar has proved very successful. This sends a current among the eggs which keeps them in regular, gentle motion, and is provided

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with an exit tube by which dead fish can be readily removed. Other devices based on the same principle have been tried, and also for the prevention of loss of fry from the same cause, with good results. The process of fertilization consists in gently pressing a female fish, which is in condition for spawning, with the thumb and forefinger backward along the abdomen, causing the eggs to flow from her ovaries into a clean, any pan. The milt is obtained from the male fish in the same manner, and the pan is given a slight swaying movement until fertilization is effected. A little water may be added to expedite the process, and new water is added until the eggs show signs of growth and become hard. The young fish, when hatched out, are kept in suitable receptacles, in which the water is frequently changed, and are transferred to new receptacles as their development continues, until ready to plant in kept in suitable receptacles, in which the water is frequently changed, and are transferred to new receptacles as their development continues, until ready to plant in free waters, which is not done until they are large enough to shift for themselves.—State Stations. The first practical application of the art of pisciculture in the U. S. was made by Dr. T. Garlick, in the development of the eggs of brook trout; and in 1865 New Hampshire began to import salmon eggs from Canada: to hatch in the waters of the State. Massachusetts followed with the appointment of a State fish commission, and one was established in Vermont in the same year. Of public fish-hatcheries in this country, the first was established by the Massachusetts commission at Hadley Falls, on the Connecticut, for the propagation of shad. The U. S. Fish Commission, established in 1871, began its practical work in 1872. Since then about three-fourths of the States and territories have appointed fish commissions, some of which are inactive, others are doing efficient work. The U. S. Commission has some twenty-five stations in operation in various parts of the country, and receives an annual appropriation from Congress of about \$150,000.—Species Propagated. Of the fixed fish thus cultivated, none have received more attention then the shad, of whose eggs many millions exercises. gated. Of the food fish thus cultivated, none have received more attention then the shad, of whose eggs many millions are taken annually, and whose fry have been largely planted in new streams, such as those of Georgia and California. The result has been a remarkable increase in the catch of shad in its native streams, and a rapid development of this favorite fish in new streams. Its introduction into the Sacramento, of California, has been attended by marked success. Of the other species that have been propagated and planted in new waters may be named the salmon, the Eastern and the California brook trout, the whitefish, the black bass, the pike, perch, cod, &c., there being in all nearly 40 species thus cultivated. The carp has been introduced from Europe into the waters of this country, and has largely increased, though for several reasons the experiment has proved the reverse of satisfactory. In the first ten years of the U. S. Fish Commission it distributed over 340,000,000 fish; in the second decade nearly 2,400,000, only a list work in this direction is steadily increasing. Of the States, Wisconsin distributed 50,000,000 young 000, and its work in this direction is steadily increasing. Of the States, Wiscobelin distributed 50,000,000 young fish in 1891; New York, more than 38,000,000; Pennsylvania, 51,000,000; Michigan, 136,000,000; and other states in large numbers. Cars specially constructed for the transportation of eggs to the hatcheries and the young fish to the waters are in use. F. C. has not been as actively prosecuted in most of the countries of Europe as in the U.S. and Canada, though much important work has been done. Among the successful results may be named the introduction of the American brook trout to the waters of Europe and Japan, the acclimation of the black bass in Germany and Great Britain, the introduction into American waters of several species of European trout, and of the salmon and trout of Europe into the streams of Australia and New Zealand. As an illustration of the comparative attention given to Europe into the streams of Australia and New Zealand. As an illustration of the comparative attention given to this important subject, it may be stated that Canada spends us much annually for fish-propagation as all Europe, and the U.S. many times as much as Canada and Europe combined.—The term AQUICULTURE is now employed in France instead of pisciculture, in view of the fact that the art is not confined to fishes, but has been extended—as, indeed, it has in this country—to include lobsters and other crustaceans, oysters, and various other denizens of the ocean waters. The artificial cultivation of the oyster has attracted considerable attention from its commercial importance, but has not attention from its commercial importance, but has not yet yielded large results, though it has been the subject of numerous experiments. Prof. John A. Ryder made successful efforts to effect the artificial fertilization of of numerous experiments. Prof. John A. Ryder made successful efforts to effect the artificial fertilization of oyster spawn, but no practical application has been made of this process, it being easy to propagate oysters on a large scale by simpler methods. The oyster produces eggs in vast numbers, and the first requisite for their increase is the provision of suitable substances to which the young may cling, after their brief interval of swimming life. This is largely done in French waters, old shells, brush, wooden slats and other materials being used. In this country the abundance of the naturally-propagated oyster has rendered these methods of much less importance. The young fry is planted in new grounds when of sufficient growth, this system of transplanting being widely practiced by oyster culturists. The youthful oyster, however, is the prey of many enemies, and few of them survive their first stage of life. The mature oyster also has its enemies, the most destructive influences, the cultivation of oysters in land ponds, for which the low coast swamps of New Jorsey and elsewhere afford abundant locations, has been resorted to. In these, artificial methods of supplying the nilunte animal and plant life, on which the lower feeds, could be adopted and the tidal waters be permitted to flow in and out through the ponds; while,

by the use of suitable sluice-gates, the enemies of the succulent molluak could be kept out. As yet little has been done in this direction, though any approach to exhaustion of the natural oyster beds would probably be followed by the adoption of some such method as this on an extended scale.

Fish'-ball, fish'-cake, n. A cake or ball of fish and potatose fried in lard or oil.

Fish'-chall, fish'-cake, n. A cake or ball of fish and potatose fried in lard or oil.

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Fish'-chall, fish'-cake, n. A cake or ball of fish and potatose fried in lard or oil.

Fish'-shall, fish'-cake, n. A cake or ball of fish and potatose fish distory. He fish the suffer of divinity in Yale College, and later was appointed to the chair of ecclesiatical history. He is the author of History of the Reformation; Discussions in History and Theology; Oullines of Universal History, &c.; became (1892), one of the editors of the New Englander.

Fisher, in Texas, a N. W. county; area, 900 sq. m. Traversed by the Brazos river and Elm and Sweetwater creeks, its confluents. Surface, undulating; no timber but meaquite; large beds of gypum. Agriculture and stock raising the principal industries. Cap. Roby. Pop. (1890) 2,996.

Fishing-rackle, n. A long, slender, tapering-rod, to which a fishing-inec arrying a hook is to be attached. Fish'-ing-tackle, n. The apparatus required for fishing-trackle, n. A poud for keeping or raising fish.

Fishs'-story, n. (Collog.) An extravagant or incredible narration; a story difficult of bellef.

Fishs'-story, n. A poud for keeping or raising fish.

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Fishs'-story, n. A poud for keeping

in the eastern hem-isphere. It differs from other genera from other genera in having a 3 celled fruit, with one seed in each cell. The only spe-cies, F. spathsulat, is a branching bush with straw-colored stems, alternate stalked lobed leaves not malike those of not unlike those of the gooseberry but larger, and pale-green flowers four to six together at the ends of the twigs; the flowers Fig. 2877.—FISSENIA SPATHULATA.



twigs; the flowers Fig. 2877.—FISSENIA SPATHULATA. have ten petals, five large and rounded, and five small and narrow, very numerous stamens, and three styles. The little tenribbed fruits or nuts crowned with the five long narrow calyx lobes, look like miniature shuttlecocks.

Fiz\*roy, Robert, British naval officer; born at Amton Hall, Suffolk, July 5, 1805; entered the navy; was engaged (1828-30) in surveying the coasts of Patagonia, and later in making a thorough survey of the southern and western coasts of South America. He was at successive periods member of Parliament, Governor of New Zealand, and chief of the meteorological department of the Board of Tendent cessive periods member of Parliament, Governor of New Zealand, and chief of the meteorological department of the Board of Trade; received the gold medal of the Royal Geographical Society; published works on navigation and meteorology, viz.: Barometer Manual; Weather Book and Narrative of the Surveying Voyages of H. M. Ships, Adventure and Beagle. The third volume of the last-named work was written by Charles Robert Darwin, who was the naturalist of the expedition. Died May 7, 1896.

Fix ature, s. A gummy preparation for the hair, like bandoline.

of the adoption of the national ensign, June 14, 1777, observed in some of the public schools with appropriate patriotic exercises, recitations and singing, display and

distribution of flags, &c.

Flagel'lum, n. (Biol.) A slender, lash-like appendage, in bacteria and flagellate infusorians, which serves

age, in facteria and nagenate infusorians, which serves as a means of locomotion.

(Bot.) A runner, as of the strawberry plant, which takes root at its joints.

Flagg, Isaac, educator, born at Beverly, Mass., Sept. 7, 1843; graduated from Harvard with degrees of A.B. and A.M., and received the degree of Ph. D. from Güt-

tingen; began his career as tutor at Harvard, and was later professor of Greek at Cornell and associate pufersor of Classical Philology in the University of California. His published works include: Versicles; Demosthenes Hellenic Orations, &c.
Flaggs, Wilson, naturalist, was born at Beverly, Mass, Nov. 5, 1805: studied at Phillips Academy and Harvard; was a careful student of nature, and early began contributions to the Atlastic Monthly and other periodicals. Hearlier works were revised, enlarged, and republished under the titles: Halegon Dogs; A Year with the Birds; and A Year with the Trees. Duei May 6, 1884.
Flagg-station, n. A railway station at which trains stop only on signal of a flag displayed.
Flammag', Flankous, figure painter, born in Paris in 1859; pupil of his father, Leopold F., and also studied with Calonel, Hedouin, and Jean Paul Laurens; received the second-class medal at the Salon of 1879; a medal of honor, Paris Exposition of 1889; and was decorated with the cross of the Legion of Honor. His important pictures are: The Girondius Summoned; The Booslers; Grolier and Aldus.
Flammas' Flom, Canilla, astronomer, born at Montrayske, Build Hauten Marus France Sch 5, 1849; extenditions, and continued and continued to the property of the part of the property of the part of the property of the part of the par

lammma'riom, CAMILLE, astronomer, born at Mon-tigny-le-Roi, Haute-Marue, France, Feb.25, 1842; studied in the imperial observatory; editor of Cosmoe; scientific editor of the Siccle; made several balloon ascensions to editor of the Siccle; made several halloon ascensions to study the atmosphere at great altitudes (1868). He is the author of a number of works, including: Les Mondes Imaginaires et les Mondes Relei; Dieu dons la Nature; Histoire du Ciel: Uranie, &c., and of recent years has contributed to American monthlies. Is highly imaginative in his descriptions of nature, and perhaps none too safe as a scientific guide.

imaginative in his descriptions of nature, and perhaps none too safe as a scientific guide. Flaum'mulle, n. [Lat. flammula, a little flame.] A small flame, or flamelet. In a specific scene, the little jet of flame which is used in representations of Jap-anese and Chinese gods to typify their celestial at-

tributes.

Flam'mel-mouthed, a. (Collog.) Having a thick, clumsily-formed month.—Speaking with a thick broque.

Flam'mery, in North Dakota, a. N. W. county; area, 1,800 ag. n. Stock raising the leading industry. Unorganized. Pop. (1890) 72.

Flash-light, Flashing-light, s. A light so contrived and managed as to be seen only at intervals, whether regular or irregular; used in light-houses and for military signalling.

(Photog.) An instantaneous, brilliant light, commonly produced by the ignition of powdered magnesium.

Flash-point, Flashing-point, n. That temper ature, below the burning point, at which sufficient vapor is given of by a volatile liquid to burn with a mild explosion upon the application of a fiame. In several States this is employed as a standard in the testing of illuminants, the law requiring that the F-P- shall be above a certain degree—say 100 F.
Flat, or Flat-house, n. See APARTMENT HOUSE.
Flatomin, in Texas, a city of Fayette co., 84 m. S. E. of Austin, on Southern Pac. and San Ant. & Atanssa Pass. R. R.; has a door and cistern factory. Pp. (1880) 1,304.
Flaubert (fic-bar'). Gustave more list of the state of the sta

(1890) 1,304.

Flaubert (Mö-bär'), Gustavr, novelist, born in Rouen, France, 1821. His Madame Borary (1857) involved him in legal troubles, from its alleged immorality, resulting, however, in a unanimous verdict of acquittal. Salambo (1862), a learned essay, embodied the result of his studies of Cartiage. He also wrote L'Edwadion Sculimentale: Historie d'un Jeune Homme, Tentation de Saud Autoine, Trois Contes, Louvard et Picucket, &c. Died in 1890.

Autoise, Trois Costes, Louward of Picschet, &c. Lied in 1880.

Fla'voring, n. (Cooking.) A substance for giving an agreeable flavor to food, especially an extract, as of lemon, vanilla, &c., used in puddings, cake, ice cream, &c. Fleek, n. A spot or streak of color; dot, stain.

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Fleek, n. A spot or streak of color; dot, stain.

R.E., has a grist-mill, foundries and manufactures of cigars and furniture. Pop. (1890) 878.

Flee'gel, Robert Edward, African explorer, born in Wilma, Russia, 1855; explored the Niger-Bonue lasin. His efforts were the means of directing attention to the Benuë, the only river of the country which affords steam navigation from the sea to the central portions of the continent. The funds for his expedition of 1880 were supplied by the German African Association. Died in Aug., 1886, while on an exploring trip.

Fleury, Emile Fellix, soldier, born at Puris on Dec. 22, 1815; entered the army (1837) and served with distinction in Algeria, carning rapid promotion; returned to France (1848), serving the Bonajartist cause; became an officer (1849) and grand officer (1859) of the Legiou of Honor; senator (1865); went to Italy on a diplomatic mission (1860), and to St. Petersburg as an ambassador (1893–79). On the downfall of Napoleon III., in 1870, F. retired to Switzerland; he was placed on the retired list of the army in 1878, and died in Paris on Dec. 11, 1884.

Flied'mer, Theodora, D.D., philanthropist, born at Eppstein, Prussia, Jan. 21, 1880. The most important

on Dec. 11, 1884.

\*\*Piled'mer\*, Theodor, D.D., philanthropist, horn at Eppstein, Prussia, Jan. 21, 1880. The most important of his charitable projects was the institution of Evapselical Deaconesses, founded (1836) at Kaiserswerth; sixty similar institutions were reported in 1890. The house at Kaiserwerth serves as a training school for women in the care of the poor and suffering. Died in 1864.

A deception; cheat.—The F. game is a piece of trickery by which a sharper confuses a person who is making change, so that he pays out more money than he received.

v. a. To deceive or confuse.

Flinderaia (fin-der'shoh), n. (Bot.) A genus of plants, order Cedrelaces, having a calyx of five short teeth; five white, ovate, plane petals, slightly hairy on the exterior; ten stamens of which only five are fertile,

the alternate ones being ster-ile; and a simple ile; and a simple erect obtusely five-angled syle, with a peltate five-lobed stigma. The capsule is woody, oblung, obtuse, five-valved, the exterior thickly terior thickly covered with sharp-pointed tubercles. They



Fig. 2878.—FLINDERSIA AUSTRALIS.

tuberclea. They Fig. 2878.—FINDERSIA AUSTRALIS. are lefty trees, having alternate pinnate leaves; found in New South Wales and the Moluccas. The natives of these islands use the rough tuberculated fruit as rasps in preparing roots, &c., for food.

Film K'ite, s. (Mss.) A hydrous manganese arsenate, crystallizing in the orthorhombic system, having a green or greenish-brown color and the formula A<sub>2</sub>Mn<sub>2</sub>AoO<sub>2</sub>).

Film t, Austrin, M.D., born in Massachusetts in 1812; graduated from Harvard (1833); professor of the Practice of Medicaine in Rush College (1844), Buffalo Medicail College (1847–52), the University of Louisville 1852–56, New Orleans Medicail College (1858–61), and Bellevine Medicail College, New York, from 1861 until his death in 1866. Was author of several standard medical text in 1886. Was author of everal standard medical text books. His son, Austin F., born in 1836, has been closely associated with his father in all the latter's undertakings, and has contributed largely to medical literature.

undertakings, and has contributed largely to medical literature. His specialty is human physiology. 

Plimt'-mill, s. (Missisg.) A device formerly used for illuminating a mine by means of a shower of sparks produced by striking steel points continuously upon fints fixed on a revolving wheel; such sparks not being capable of igniting fire-damp.

(Podey.) A grinding machine for powdering flints to mix with the clay.

leat'er, n. (American Polit.) An irregular or purchasable voter; one who votes fraudulently outside of

Pleat'ing-is'land, n. A desert of custard with white of eggs or other light substance floating on top.

Floug, n. A term used by sterestypers to designate the sheets of prepared paper used in the papier-mache process to make matrices; also, a paper matrice so made.

process to make matrices; also, a paper matrice so made.

Flood'splaim, s. (Geol.) A plain formed by successive river overflows, extending to a considerable width on each side of a stream and made up of layers of mud, and and gravel deposited by the subsiding waters. The F. of some streams is very wide and presents so level a surface that the stream winds through it in a serpentine course, its curves increasing in radius with increase of volume. By cutting away the bank on the concave side of the curve and depositing material on the other bank, the stream frequently shifts its channel, the curves occasionally forming nearly a circle, with a narrow neck of land intervening between their extremities. Such a neck is at times cut through by an overflow, and the river pursues a new "cut-off" channel; its abandoned channel becoming a stagnant "ox-bow" lake. Tributary streams coming from higher lands often follow the F. downward for miles before entering the main river. Plains of this character belong to many streams, notably the Missistippi, the Amazon, the Nile, and the Ganges. They are highly fertile, and are usually covered by swamp torests.

mies before entering the main river. Plains of this character belong to many streams, notably the Miesisiph, the Amazon, the Nile, and the Ganges. They are highly fertile, and are usually covered by swamp torests until cleared for cultivation. When occupied by man, overflow is provided against by dykes or levees.

Pleedia, s. pl. River overflows, or ocean invasions of the land. Floods are due to the unusual rise of streams from long-continued rains and melting snows; the sodien and severe rains known as cloudbursts; the breaking of dams, natural or artificial, with the outflow of reservoir waters; the breaking of ocean dykes; and the overflow of lowlands by ocean waters during severe storms or through earthquake convulsions.—Coastal floods, many destructive instances are on record. The breaking of the dykes of Holland has frequently caused much destruction, the most fatal disasters being those of 1228, 1446, 1521, and 1646, in each of which about 100,000 people were drowned. The earthquake flood at Lisbon, in 1775, sent ashore a wave 80 feet in depth, destroying hosts of the inhabitants. In 1876 a cyclone wave in Bengal caused the low of 200,000 lives. The wave accompanying a volcanic explosion of Krakatoa, in 1883, caused great lose of life on the neighboring coast of Java. These are but a few of a long list of such disasters due to oceanic waters.—

Of P. due to the breaking of dams, and the outflow of the waters of a reservoir, one of the most destructive on record was that at Johnstown, Pa., May 31, 1889, the water rushing down the river channel with a depth of 100 feet, and drowning more than 5,000 people. P. of this kind frequently occur in the spring by the temperary damming up of a stream by floating ice, the water backing up behind this temporary dam, and occasionally pouring forth destructively when the ice gives way. Much more serious effects have arisen from the occasional crossing of the course of a stream by a placier, and the sudden yielding to the great body of water collected behind it. Such an

the valley of Bagnes, south of Martigny, Switzerland, in 1818, the Gintroz glacier advancing during a very severe winter and blocking up the Drause river, which formed a lake a mile long and 200 feet deep. By making a tunnel through the ice the lake was half drained, but the breaking of the ice caused a great flood with the remainder—Biser Roods. These are of very frequent occurence in some parts of the world. Such F., of narrow area and rapid decline, sometimes result from a very heavy downpour of rain, especially in mountain districts. The great and long-continued river floods are due to extensive and perdstent areas of rain in the valleys of the tributaries of a great trunk stream. One of the most disastrous forms of river flood is that which, on nine known occasions, occurred in the lower valley of the Hoang-Ho, of China, which cut through its banks and took a new course to the sea. In 1863 such an overflow occurred, the stream forming a new outlet 350 miles from its old. The loss of life by this disaster was enormously great. Immense levees or heads are built to restrain the water within its channel. outer sou miles from its oid. The loss of life by this disaster was enormously great. Immense levees or banks are built to restrain the water within its channel, but these are apt to give way in a rise of unusual height, with the luundation of great areas of the floodplain. Many such overflows have taken place in the Mississippi. In the apring of 1897 this stream rose to its greatest recorded height and overflowed thousands its greatest recorded height and overflowed thousands of square miles, though the strength of the levees prevented the disaster becoming as great as was threatened. F. of this kind are believed to be due in a considerable measure to the destruction of the forests, which, when intact, greatly lessen the rapidity with which the rain waters drain off; though some question the truth of this theory. At all events, forests have the effect of causing greater outflow at rainless periods, and act to prevent the occurrence of abnormally low stages or the drying up of streams.

the occurrence of monotonics, up of streams.

Floor-walker, s. A person employed in a large retail store to walk about and give information to customers, watch the conduct of employees, detect

retail store to walk about and give information to customers, watch the conduct of employees, detect thievery, &c.

Flop, \*\*.\* \*\*. (Collog.)\*\* To change suddenly one's opinions or political affiliations.

Flop'per\*\*, \*\*. (Collog.)\*\* A political turneoat; one who frequently or suddenly changes his opinions or party.

Floquet (\$\vec{hc}a''\$), Charles Thomas, politician, born at St. Jean de-Luz, France, Oct. 5, 1828; studied at the College St. Louis, and was admitted to the bar (1852); was successively member of the National Assembly and lege St. Louis, and was admitted to the bar (1852); was successively member of the National Assembly and of the Chamber of Deputies; Prefect of the Seine; president of the Chamber, and (1888-89) Prime Minister. Became implicated in the Pauama scandal (1892-83). Died Jan. 18, 1896.

Flor'a, in Indiana, a post-town of Carroll co., 19 m. S.S.W. of Logansport, on the Vandalia R.R.; has carriage shop, furniture factory and lumber mills. Pop. (1899) 639.

[Top'ence. William Jermyn (real name Reported

(1891) 639.

Flor'enee, William Jermyn (real name Bernard Conlin), comedian, born in Albany, N. Y., July 26, 1831; married Mrs. Malvina Littell, a dancer. In 1856 they went to England, travelling and acting together in the British provinces. On their return to the U. S. they appeared every season until Mrs. F. retired from the stage; her husband continuing to play, and joining Joseph Jefferson in some of the old concedies. His noted characters were; Ception Cuttle, in Dombey and Son; Bardwell Slote, in The Mighty Dollar, and Robert Brierly, in the Ticket-of-Leave Man. Died in Philadelphia Nov. 20, 1891.

Florence, in Arizona, a post-town, cap. of Pinal co., 75 m. N. N. W. of Tucson. Nearest R.R. station, Casa Grande, on So. Pac. R.R.; has a smelting furnace for silver. A U. S. Land Office is located here. Pop. (1897) about 1,500.

silver. A U about 1,500.

Grande, on So. Pac. R.R.; has a smelting furnace for silver. A U. S. Land Office is located here. Pop. (1897) about 1,500.

Floremee, in Californic, a post-town of Los Angeles co. 6 m. from city of Los Angeles. Pop. (1890) 750.

Floremee, in Kansaa, a city of Marion co., 45 m. W.S.W. of Emporia, on Atch., Top. & S. Fé B.R.; has quarries of building stone. Pop. (1895) 1,454.

Floremee, in South Carolisa, a N. E. county; area, 578 sq. m. Drained by Lynch and Great Pee Dee rivers. Surface, level; soil, a sandy loam. Products, cotton tobacco, corn, sugar cane, rice and potatoes. Cap. Florence. Pop. (1890) 25,027.

Floremee, in Wisconsis. a N. E. county; area, 498 sq. m. Drained by Menominee river and small streams. Soil, fertile. Mining and lumbering are the chief industries. Cap. Florence. Pop. (1895) 2,850.

Flores, Antonio, statesman, born at Quito, Ecuador, in 1833. Studied in Paris, and graduated in Law at Lima; was minister to U. S. in 1861, and again in 1868-69; was president of Ecuador in 1888-92, his administration being one of peace and comparative prosperity. Florewille, in Texas, a post-town, eap. Of Wilson co., 30 m. S.E. of San Antonio, on San Ant. & Aransas Pass R.R. Pop. (1890) 913.

Flore'tum, n. A flower garden; specifically, that part of a botanical garden especially set apart for the culture of flowering plants.

Flore'tow, FRIEDRICH von, BARON, an eminent German operatic composer, was born at Teutendorf, in Mecklenburg, April 12, 1872. Seeking Paris at the age of 16, he engaged in study under Reicha, and while quite young entered the field as composer, producing operas which were at first refused by the managers of the Paris theaters, be first winning a hearing in 1839 by his La Naufrage de la Miduse, which achieved great success. It was followed by Stradella in 1844, and the highly popular Martha in 1847. In 1856 he was appointed superintendent of the theater at Schewerin, which position he resigned in 1863, returning to Paris. In 1864 he was elected a corresponding member of the

French Institute, and in 1870 was appointed director of the opera at Vienna. Of his later operas three attained marked success, Indra (1853), La Vewe Grepin (1809), and L'Ombre (1869). Died in 1883.

Flour, a. This word, upprefaced with the name of any cereal, is understood to mean the ground and bolted substance of wheat (q. v.), distinguished from type P, buckwheat P., Graham (unboited wheat) P., &c.

Flour, Mamufac ture of. As bread and other preparations of the flour of wheat constitute the staple food of the most enlightened nations of the world—only rice, perhaps being used by a greater number of people—it follows that the production of wheat and the manufacture of flour are among the most important industries of the world. The earliest records of the human family show that wheat was cultivated and made into flour in those remote ages. The method of preparation was rude indeed, and slow compared with the complicated and rapid milling processes of the present time; and yet it is less than a quarter of a century since the general introduction of machinery that entirely displaces methods that savor of remote autiquity, viz.: the crushing of the wheat between two stones. The first process was probably that of pounding with one stone upon another, which was followed naturally by the use of a larger stone that was pushed back and forth on a lever; and from this came the quern, the earliest form of what may be called a mill, in which the lower stone was stationary and the upper, with a hole in the center for feeding the wheat, was rotated upon it by means of a stick inserted near the edge. Remains of primitive grain-crushers have been found in the ancient lake dwellings of Switzerland; we read in the Pentateuch of "the upper and neither millstone," and elsewhere in ancient literature are similar allusions. The work of preparing the flour, among the Hebrewa, the ancient Romans, and even the early inhabitants of Britain, appears to have been altogether done by women. At a later period the Romans employed their sla varieties of wheat used. As intimated above, until very recently stones were universally employed in crushing the grain, and are still found in small establishments. The orthinary buffressess are a little over 4 ft. in diameter and one foot in thickness, the surface being grooved; the grooves of the upper exactly corresponding with those of the lower, so that when the upper is rotated over the lower—which is fixed—the sharp edges of the grooves meet and the grain is cut, squeezed and powdered. Formerly the product of this grinding was at once separated by bolting into flour, middlings and bran. But some time in the early part of this century what was called high-milling began to be practiced in Germany and Hungary, which was then the center of the flour manufacture of the world. This consists in putting the ground product through a process of several reductions and separations, avoiding the rasping of the bran—particles of which, mingled with the flour, gives it a dark color—and at the same time securing a larger proportion of fine white flour from the middlings. About 1840, at Budapest, Count Szechenyi invented the roller-mill, which was destined to revolutionize the business of flour-making. For some time it was kept a secret, but when once introduced to public notice, about 1879, it came rapidly into favor and has in large establishments already banished the use of stones. The rollers of this modern mill are made, some of porcelain, some of steel, but mostly of chilled iron; and are smooth or corrugated according to the use required of each kind. There are commonly two pairs to each machine, fed from opposite sides of the same double hopper. The wheat as it comes to the mill often has foreign substances mixed with it, as well as impurities on the surface of the grains, both of which must be gotten rid of; and therefore it is first subjected to a process of cleaning. This is commonly done by passing it through a cylindrical sieve of wire cloth, having internal partitions, and mounted in a sloping position; wh tions, and mounted in a sloping position; when this is set in motion, the grain tumbles from one division to another, losing through the meshes particles of sand or small seeds, and is exposed to a blast of air from a fan for removing dust and all light substances. It is then subjected to some kind of a scouring process, either by a decorticator for removing a portion of the outer covering, or by a brush machine, which scrubs and pollshes the surface, when it is ready to be ground. Here it should be noted that a berry of wheat consists of an outer layer of epidermal cells, then two or three layers of cells enclosing a layer of larger cells containing the gluten or nitrogenous matter—the most nutritive portion of the wheat—within which is the perisperm or albumen, constituting the great mass of the berry, composed of numerous cells filled with grains of starch, and having at its lower end the minute embryo or germ of the plant which the seed is designed to produce. It is the object of the miller to grind all these inner portions of the grain in such a manner as not to break the integumentary and filnty particles and produce a pure white powder, or one only slightly-shaded or tinged with yellow, containing all the nutritive and none of

the indigestible substance of the wheat. To effect this it is first slightly broken between a pair of corrugated rollers—one of which revolves at a speed about three times as great as that of the other—and the product is conveyed to a bolter, or dresser, for removing a portion of the flour nixed with small wheat or middlings. This process is repeated several times until as much as particle of the flour has been disengaged from the bran, which is removed, and the flour and middlings are sifted to separate the flour, which is then ready for use. The middlings, or granules, are then passed to a "purifier," a reciprocating sieve with an air current, which fer," a reciprocating sieve with an air current, which is removes the undesirable particles, and the purified granules are then crushed through a series of smooth rollers (one revolving about twice as fast as the other) granules are then crushed through a series of smooth rollers (one revolving about twice as fast as the other) and successively sifted, the resulting product being a fine—sometimes called "patent"—flour, and a portion of screenings. The bolters, or dressers, are cylinders of considerable length and usually about three feet in diameter, mounted horizontally on spindles for revolving, and covered with silk of different degrees of fineness. Brushes on the outside, either fixed or rotating, prevent the silk from being clogged, and in some there are frames that revolve inside to throw the material against the circumference. The flour and other products are the circumference. The flour and other products are conveyed through spouts to the packing room and emptied into barrels or bags as desired. A large part of

and F.R.S.

Floyd, John Buchanan, statesman, born in Montgomery co, Va., in 1805; graduated from South Carolina College, and studied law; was a member of the Virginia legislature (1847-49, and 1833); governor of the State (1850-53); U. S. Secretary of War (1857-60); entered the Confederate army as brigadier-general in 1861, but was not successful as a soldier. Died in 1863.

Floyd, William, an American patriot, born in Suffolk co., N. Y., 1734. Forty years afterward he was a delegate to the Continental Congress, and during 8 years had a seat in that body, and affixed his signature to the Declaration of Independence. Died in 1821.

Floyd, in Tezza, a N. W. county; area, 1,100 sq. m. Intersected by Cartish creek. Surface, undulating; soll, fertile; no timber. Stock raising is the chief industry. Cap. Floydada. Pop. (1897) about 2,000.

Flu'Orene, s. A white crystalline compound (C1sH1e), a product of coal-tar. When impure it

of the Geissler or Crookes tube. If portions of these tubes are made of the fluorescent "canary glass," or are surrounded with jackets of glass holding fluorescent liquida, interesting effects appear, the colored light of the discharge being varied by luminous colors of different shades, due to the action of the fluorescent material. The principle of P. was first announced by Prof. G. G. Stokes in 1852, to the effect that the wavelength of the light emitted by a fluorescent body is always greater than that of the incident light. For this reason, light waves which are too short to affect the eye may be lengthened and become visible through the action of a fluorescent body. In this way rays far beyond the ordinary limit of visibility may be seen and the lines of their spectrum mapped out, Stokes having obtained by this means spectra five times as long as the ordinary solar spectrum. In addition to fluorescent liquida, there are certain solids which possess this property, including fluorespar (from which Stokes derived the name of the property), platino-cyanide of barium (which has striking fluorescent powers), thalline (a petroleum product of brilliant powers), and canary glass. The latter is a glass colored yellow with oxide of urantum which fluorescent powers) and canary glass. The latter is a glass colored yellow with oxide of urantum which fluorescent spectra of great variety and many of them very leautiful. In fluorescent liquids, and some solids, the effect

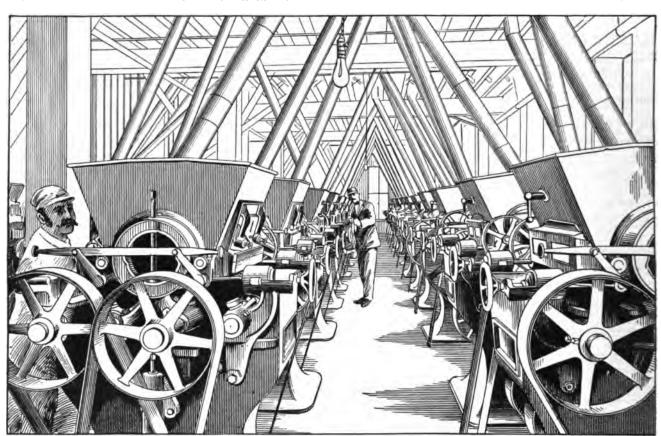


Fig. 2879.—FLOUR-MANUFACTURE—INTERIOR OF A MODERN ROLLER MILL

the machinery of a flour-mill is automatic, and only requires careful supervision to have the work done rapidly and accurately. The great flour center of the U.S. is Minneapolis, the production of that city alone in one year being about 10,000,000 barrels. The value of the total annual flour product of the U.S. is estimated at about \$600,000,000.

the total annual flour product of the U. S. is estimated at about \$000,000,000.

Floureoms, Gustav, author and politician; born in Paris, Aug. 4, 1838; engaged in the war of the Cretans against the Turks; was minister plenipotentiary from Crete to the Greek Government (1855-88); took part in the electoral movement at Paris (1868), also in the commercial insurrection of 1871; was killed on April 3 of that year. He was the the author of La Question d'Orient et l'Insurrection Crétoise; Puris Delirrés, &c.

Flow'er, Rowell Pettisone, banker and politician, born at Theress, Jefferson co., N. Y., Aug. 7, 1835; received a common school education, taught school, engaged in the jewelry and brokerage business at Watertown, N. Y.; became manager of the estate of his sister, widow of Henry Keep, valued at several millions, and removed to New York city, in 1869, to establish a banking house; was elected to Congress in 1880 and 1888; held local offices in New York city, and was elected governor of the State (1891-94) on the Democratic ticket.

has a beautiful violet fluorescence, whence its name. Fluores'cemee, s. (Phys.) A property, which is pussessed by certain transparent substances, of giving off, when illuminated, light of a color differing from that of the incident ray and from their own color. The light given off is of greater wave-length than that of the incident ray, and is best excited by the violet and ultra violet ray; light rays above the range of visibility being made visible by reduction in the rapidity of vibration through fluorescent action. The coal-tar coloring product known as fluorescent when dissolved in water, is of an intense green hue; but if light be made to pass through this solution the color changes to a reddish-orange, the shorter rays being absorbed and re-emitted as longer rays. One part of fluorescent dissolved in alkali and diluted with 2,000,000 parts of water still shows a F. Sulphate of quinine and some few other substances are also strongly fluorescent, while many can be shown to be so by special methods. If a ray of reflected light be passed through a solution of ammonia-sulphate of copper, in a dark room, many substances, placed in the faint purple-blue beam that emerges, will glow brightly with that of greater wave length. The electric ray sent through the same solution will yield similar effects. F. can also be excited by passing the electric discharge through the rarefled gas

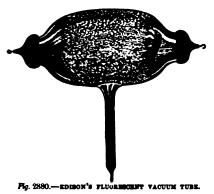
ceases instantaneously on cutting off the light; but in most solids it continues from a very short period, in some instances, to many minutes in others. This per-sistence is often known as phosphorescence, and can be given to some solutions by solidifying them in a gela-tion conditation.

tine combination.

A highly important extension of the employment of A highly important extension of the employment of fluorescent material has been made since the discovery of the Reentgen rays, which, in addition to their photographic power, can be made visible by the use of fluorescent screens. The rays, which may lie far beyond the ultra-violet end of the spectrum, are made visible by this process. By covering a photographic plate with fluor-spar, its sensitive surface being turned away from the source of the rays, the length of the light vibrations may be changed and a photograph be taken with the new rays, which affect the photographic plate much more strongly than did the Reentgen rays in passing. In the opinion of Professor Dewar, whose experiments in the liquefaction of gases have attracted such wike attention, F. differs from phosphorescence only in the brevity of its duration, the latter being, in his view. simply a species of the former, in which certain substances give out light (usually in an altered form) which had been previously absorbed. In his experiments with very low temperatures he has greatly extended the list

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of finorescent bodies, even proving that oxygen has the property of F, which is shown by all gases containing this element. The air used needs to be filtered, as any considerable proportion of organic material present destroys the finorescent effect, which is also destroyed by ether or hydrogen.



Flu'oroscope, s. The name given by Edison to an instrument which he designed in March, 1896, similar to the skiascope (q. v.). It consists essentially of an actiuically darkened tube or bux, having at one end a fluorescent screen on which shadow-pictures, made by the "X-ray," may be projected from without, thus becoming immediately visible to an observer looking within the instrument. Flu'oroscope. a.

Flut's ma (fine? -ma), s. A musical instrument with lever or push-button finger-pieces, similar to an accor-

deon.

Flut'ing-iron, s. A laundry iron with corrugated surfaces for fluting ruffles.

Flut'ing-manchaime, s. A machine having grooved cylinders for fluting; sometimes called a fluting-lathe.

Fly, s. A fish-hook dressed in imitation of some kind of a fly, so as to attract attention.—That part of a flag farthest from the staff or halliards—the part beyond the canton.—The length of a flag from the staff to the farthest edge, in distluction from the koist—its vertical width. See Flag.

Fly'-flashing, s. Fishing with files, natural or artificial.

Piring-squir'rel, s. A squirrel of the genus Peromys, inhabiting southern Asia and the East In-dies; or of Sciencopterus, inhabiting the northern parts of Europe, Asia and America; having a parachute-like field on each side, enabling it to take long leaps, as if

Tyring.

Tyring. Fly'-ne

stance for catching files, or with poison for killing them.

Feared, in Texas, a N. county; area, 660 sq. m. Surface, hilly in the west, undulating in the east; gypsum plentiful. Products, wheat, oats and sorghum. Stock raising is a leading industry. Cop. Crowell. Pop. (1897) 1,569.

Feg-horm, s. An instrument with a perforated, rotating disk or disks, through which steam or impressed air is driven so as to produce a loud, musical note or a whistle; it is used as a warning to ships in a fig. Sometimes termed a siren.

Feg Sig males. (Nast.) Signals used to prevent collisions between vessels in foggy weather. Signals of this kind are highly necessary in certain oceanic localities, as on the northeastern coast of the U. S., where fogs are frequent and persistent. Here also the shores are precipitous, rendering the indications of the land very uncertain; and safety is only to be had in the use of signals capable of penetrating the fog. The penetrating power of intense lights has been tried for this purpose in France and Great Britain, but without satisfactory result, and sound seems to be the only agent capable of penetrating any considerable depth of fog. Varions sound-producing instruments have been tried for this purpose, such as cannon, bells, gongs, whistles, trumnets, and sirens. Of these, cannon have proved Various sound-producing instruments have been tried for this purpuse, such as cannon, bells, gongs, whistles, trumpets, and sirens. Of these, cannon have proved unsultance, the bell is usually too feeble in sound to be valuable except for short distances. Bells rung automatically by the action of the waves have been tried, but without satisfactory result, and the sound of the gong has proved to have too little power of penetration. Automatic whistles, actuated by wave motion, are also employed. The trumpet and the whistle have proved the most desirable implements for this purpose, the locomotive The trumpet and the whistle have proved the most desirable implements for this purpose, the locomotive whistle being employed by the U. S. lighthouse board as the simplest of the more powerful F. S. The whistles employed are from 8 to 12 inches in diameter, and are blown by a steam pressure of 50 to 75 lbs. per sq. inch; the length of blast and the interval between two emissions differing from those of the ordinary locomotive signal, and being controlled by an automatic opening and shutting of valves. The reed or Duboll brampst is the next most powerful instrument. This is actuated by compressed air, and while less powerful than the steam whistle, can be used in places where the laster is not available. The most powerful of all F. S. yet employed is the sires brampet, its sound being audible in still air at a distance of from 20 to 30 miles, even through

a dense fog. It is usually operated by a pressure of 75 lbs. of steam. By increasing the number of revolutions of the disk, the pitch of the sound may be heightened; and it has been found by experiment that a pitch of medium sound gives better penetration than one higher or lower. There are many interesting phenomens of variation of sound with change of distance, and in case of wind, in the use of F. S., which are two complex to the treatment of the sound reserving.

variation of sound with change of mannes, and it case of wind, in the use of F. S., which are two complex to be treated here. For an interesting sound-receiving instrument, useful air fog, see EOPHONE.
Folderol, m. (Colleg.) Nonsense: foolishness.
Folding-maschine, m. (Prist.) A machine for folding printed sheets for books or newspapers.
(Metall.) A machine for bending sheet metal to form.
Folley, in Tezza, a S.W. co.; area, 2,100 sq. m.; bounded on the south by the Rio Grande del Norte. Unorganized.
Folleger, Charles Jakes, juriet and financier, born at Nautucket, Masc., on April 16, 1818; graduated (1836) from Hobart College, Geneva, N. Y. (where he afterward resided), and began the practice of law in 1839; became successively judge of Common Pleas (1844), State senator (1861-69), associate judge State Court of Appeals (1871) and chief justice of same (1880); was appointed U. S. Secretary of the Treasury (1881-64); in 1822 was Republican candidate for Governor of New York, but was defeated by Grover Cleveland. Died Sept. 4, 1834. ent. 4. 1x84

Sept. 4, 1884.

\*\*Olk'-talles, s. pl. (Anthrop.) Narratives of ancient origin, which have been passed down orally through many generations, and many of which are still extant as the domestic literature of the common people. Many tales of this character have been committed to writing in ancient times, and have descended to us as part of in ancient times, and have descended to us as part of the written literature of former periods; but the bulk of them have been communicated by way of recitation, and only recently have been collected and reduced to printed form in any large measure. These compositions are those of the common people, and do not possess any special literary merit, while their form is largely that of the fable or fairy tale—the favorite lore of the period of high antiquity which many of them can claim. This antiquity is shown by their wide diffusion and the many variants of the same original tale which are possessed by different and often widely separated peoples. F. cannot be said to indicate any active power of imaginative invention possessed by the people among

are possessed by different and often widely separated peoples. F. cannot be said to indicate any active power of imaginative invention possessed by the people among whom they arose, the same incident being made to do duty in many different tales, and a small stock of more or less magical events serving the purpose of numerous distinct peoples. The study and collation of these tales belongs to the subject of folk-lore (q. v.).

Fonn'des, in Jose, a post-town of Ponhontas co. 35 m. W. of Fort Dudge on Des M. & N. W. and In out. R.Rs. Pop. (1897) about 1,300.

Fonnse'es, das, MANUEL DEODORO; Brazilian mobiler and politician, born in the province of Alagona, Aug. 5, 1827; graduated from the millitary school with the rank of sub-licutenant of artillery, having previously served in the army as cadet. After the banishment of the Emperor, Dom Pedro, II., a republic was proclaimed and F. made chief of the provisional government; subsequently elected President for four years. Revolts breaking out. F. was forced to resign (March, 1892), the vice-president, Pelixoto, assuming the office of President. Died Aug. 23, 1892.

Fontamel, in Indiana, a post-village of Vigo co., on C., C., C. and St. L. R.R. Pop. (1890) 521.

Fool's Gold, s. Iron or copper pyrites, which has a resemblance to gold.

Fool's Paradise. A place in the world of spirits popularly considered to be the abole of nonsense and vanity; hence, any state of deception, bits or foolish pleasure.

vanny; nearce, a., pleasure.

\*\*Oot'-ball, s. (Sports.) A game played in an open field, with an inflated, hollow ball, by any even number of persons divided into two side—generally eleven on a side. In England the ball is usually round; in this content of the side of the state of persons divided into two sides—generally eleven on a side. In England the ball is usually round; in this country the oblong shape is more in voque; it is made of India-rubber or an ox-badder, covered with pig-skin or other leather, with an inlet, tube, and screw-valve for inflating the sphere by means of an air-pump or lung pressure. The oblong ball, of regulation size, is about 9 inches in diameter by 12 inches long. The game should be played (according to the rules of the University Athletic Club, 1897), upon a rectangular field 330 feet in length by 160 feet in width, the boundaries being indicated by heavy white lines marked in lime upon the ground. It is customary to mark off the field with cross lines in lime at intervals of five yards, for the benefit of the referce in determining how far the ball is advanced at each down. The two end lines are the goal lines. These and the side lines are extended past the points of their intersection; and the spaces lying beyond the goal lines and outside the side lines are termed louch-in-youd. The goals are placed on the goal lines, midway between the side lines; each consists in two upright posts, exceeding 20 feet in height, placed 18½ feet apart, and joined by a cross-bar lofeet from the ground. The space beyond the goal lines, and between the extensions of the side lines, is termed goal.

The frequently rough nature of the game requires a special dress, affording some measure of protection to the player. This is provided by padded trousers, whin-

The frequently rough nature of the game requires a special dress, affording some measure of protection to the player. This is provided by padded trousers, ahinguards, &c., while special shoes are made, of leather or canvas, with leather cross-pieces on the sole to prevent slipping. On taking the field, the players "line up" as follows: In front, the rush line of 7 men, whose positions are termed, respectively, center, right gward, right tackle, and right end, and left gward, left tackle, and left end. Close behind the center stands the quarter-back; a

few yards further in the rear, and on either side, are the two half-backs, while the full-back or goal-tender is placed ten or twelve yards behind the half-backs. The opposing side, of course, is similarly disposed, and the contending forces face each other across a space a few feet wide in the center of the field. Referee, umpira, contending forces face each other across a space a few feet wide in the center of the field. Referee, umpire, and linesman are chosen; the extremities of the playing field are indicated by flags. The whole purpose of the game is to force the ball through or over the opponent's goal. In the old-style game, this was done wholly by kicking; but in the modern game, as played in this country by the university athlets, the ball is thrown and carried as well as kicked. The side winning the preliminary toes has the right to a choice of goal or to the first kick-off. If there be no advantage in goals (due to wind, position of the sun, &c.) the captain will generally choose the kick-off. The ball is placed in the the exact center of the field and the game begins, there being two periods or "halves" of play, 35 minutes each, with an intermission of 10 minutes. At the first kick the ball must be sent at least 10 yards into the opponent's territory, unless intercepted by an opponent; as a matter of fact, it is generally sent as far as possible, and the rush line plunges forward in the hope of reaching the ball in time to force it onward toward the other's goal before it can be returned by a kick or carried by a speedy runner around the end. The various plays may be fairly understood by reference to the following parties

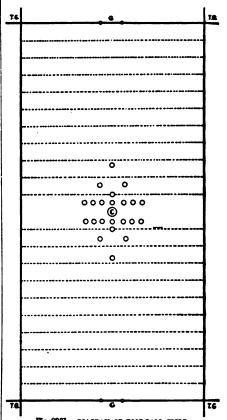


Fig. 2881.—DIAGRAM OF FOOT-BALL FIELD. C, center; G, goal; TG, touch-in-goal. The dotted lines she the 5-yard intervals.

list of terms used in and general rules governing the

list of terms used in and general rules governing the game:

A drop-kick is made by letting the ball fall from the hands and kicking it the instant it rebounds. A place-kick is made by kicking the ball after it has been placed on the ground. A paw is made by letting the ball fall from the hands and kicking it before it reaches the ground. A kick-ogf is a place-kick from the center of the field of play, and of course can never score a goal. A kick-out is a place-kick, drop-kick, or punt made by a player of the side which has touched the ball down in its own goal, or into whose touch-in-goal the ball has been sent during play. A free kick is any kick where the opponents are restrained by rule from advancing beyond a certain point. If a side obtain a free kick, the ball may be put in play by any form of kick. A ball is out of bosseds when it crosses either side line, or when any player holding the ball shall put any part of either foot on or across a side line. It is sin goal under similar conditions affecting the goal lines. A fost is any violation of any rule. A touckdown is made when the ball is carried, kicked, or passed across the goal line, and there held either in goal or touch-in-goal. The point where held either in goal or touch-in-goal. The point where held either in goal or touch-in-goal. The point where held line. A safety touchdown is made

when a player touches down the ball, it being in possession of his side, in his own goal or touch-in-goal. A touchback is made when the Ball, having been sent across sion of his side, in his own goal or touch-in-goal. A touchback is made when the Ball, having been sent across the goal line by an opponent, is touched down by a player behind his own goal. A paut-out is a punt made by a player of the side which has made a touchdown to one of his own side for a fair catch. A fair catch is one made direct from an opponent's kick, or from a punt out by one of the same side; providing the player making the catch marks the spot with his heel, and no ther of his side has touched the ball. If he be thrown after making the catch, or be interfered with by an opponent who is off side, he is given 15 yards, providing he has not advanced beyond his mark. A player is off side if he be in opponents' territory at the instant he ball is put in play. A scrimage occurs when the holder of the ball places it on the ground and puts it in play by snapping it backward or kicking it forward. Charging is rushing forward to tackle a player or to selze the ball. The ball is dead when the unpire or referee blows his whistle during play or declares a down; when a goal has been made; when a fair catch has been held; when the ball has been downed after going into touchin-goal or out of bounds. No play can be made while the ball is dead except to put it in play according to the rules. A goal consists in kicking the ball is any way, except by a punt, from the field of play, over the cruss-bar of the opponent's goal. If the ball pass directly over one of the upright pots, and his judgment as to fouls and unfair plays is final; except that the referee is required to see that the ball is reportly put in play, and to judge its position and progress; he is also judge of forward passes and of running with the ball by the quarter-back. The same side is not allowed the kick-off in two successive halves; and whenever a goal has been obtained, the side losing has the next kick-off. At kick-off, it the ball of the control of the same side is not allowed the kick-off in two successive halves; running with the ball by the quarter-back. The same side is not allowed the kick-off in two successive halves; and whenever a goal has been obtained, the side losing has the next kick-off. At kick-off, if the ball go out of bounds before being touched by an opponent, it is brought back for another kick-off; if this occur twice in succession, it goes as a kick-off to the opponents. The side having a free kick must be behind the ball when kick-off; and the opponents must stand at least ten yards in front of the ball until it is kick-off. A player may pass or throw the hall in any direction except toward the opponents goal. A player is tackled if, when attempting to run with the ball, he is assailed by his opponents. Interference consists in the efforts of the runner's fellow-players to prevent his being tackled. A dosso occurs when a player holding the ball is fairly stopped by his opponents, or when he shouts "down:" the referee then blows his whistle, the ball is considered down at that spot, and any piling up thereafter on the player who has the ball is punished by giving him 15 yards. If in three consecutive downs (the ball not being carried across the goal line), a team shall not have advanced the ball 5 yards or taken it back 20 yards, it goes to the opponents on the spot of the fourth down.

advanced the ball 5 yards or taken it back 20 yards, it goes to the opponents on the spot of the fourth down. These are only a few of the many and somewhat intricate points and rules of play. The scoring is as follows: Goal obtained by touchdown, 6 points; goal from field-kick, 5 points; touchdown failing goal, 4 points; touchdown for safety, 2 points.

Feote, Andrew Hull, an eminent naval officer, born at New Haven, Conn., 1806. Entering the navy in his sixteenth year, he became a commander in 1852, served with distinction in China in 1856, and in 1861 was entrusted with the command of the gunbeat flidlia on the Mississippi, in which position he rendered efficient aid in the reduction of Forts Henry and Donelson, in 1862. In the same year he became a rear-admiral, and 1862. In the same year he became a rear-admiral, and succeeded Admiral Du Pont in command of the South

1862. In the same year he became a rear-admiral, and succeeded Admiral Du Pont in command of the South Atlantic squadron. Died in 1863.

Foote, Henry Stuart, statesman; born in Fauquier co, Virginia, September 20, 1800; graduated from Washington College, Va., and licensed to practice law; was U. S. Senator from Mississippi (1847-52), when he was elected governor of that State; was a member of the Confederate Congress, but was one of the few prominent Southerners who opposed secession. Diel May 19, 1880.

Foote, Mary (Haldock), artist and novelist; born in Milton, N. Y., Nov. 18, 1847; since her marriage with Arthur D. F., she has lived in California. Colorado and Idaho. Besides her own works, she has illustrated Longfellow's Skeleton in Armor; Hanging of the Crane, and versee by other poets. Her novels include The Led-Horse Cluin; John Bodievin's Testimony, &c.

For age Plants. (Agric.) Plants which are cultivated to serve as food for farm animals, or which may be adapted to this purpose. This is the case with some of the cereals which are frequently grown for winter pasturage in the South, and are largely grown for hay in California. Maize, in its young state, is often used for this purpose in the North. The grazing plants of this country, in great part, are native grasses which grow freely without culture, and which, upon the grazing lands beyond the Mississippi, support many millions of cattle and sheep. What are called "artificial grasses," the clovers, &c., which form a considerable share of the annual hay crop, and are usually associated with the grasses by the farmer, belong to a very different class the clovers, &c., which form a considerable share of the annual hay crop, and are usually associated with the grasses by the farmer, belong to a very different class of plants. Of the many kinds of grasse possessed by this country, only a few species are cultivated for hay, while of those which supply the western grazing interests the farmer has little or no knowledge. Grasses are usually classified in accordance with their habit of growth, as banch grasses, which grow in bunches and do not form a sward, and gregarious grasses, which grow in close association, forming a compact award, this being

the habit of most grasses of the temperate sones. They may also be classed as aquatic grasses (those growing in the water), salt grasses (those found in alkaline soils or salt marshes), meadors and pasture grasses (including most of those cultivated for pasture), and agrarian grasses (usually considered as weeds). Of agrarian grasses (usually considered as weeds). Of these, the bearded darnel is believed to bear poisonous incomparion grasses (usually considered as weeds). Of these, the bearded darnel is believed to bear polsonous seeds, a property almost unknown in the grass family. It is thought to be the "tares" of the Scriptures. There are other grasses which are weeds only in certain localities, as the barn-yard and crasb grasses, which are worthless weeds in Northern fields but are prized for both hay and pasturage in the South. There are others which are excellent for forage while young, but are injurious weeds when mature, developing sharp-pointed awas which may seriously injure animals feeding upon them. Of this character are the wild-out and porcupine grasses. Within the limits of the U. S. there are no fewer than 800 different species and varieties of grasses. As regards those commonly used for forage purposes, most of them have been introduced from foreign countries, either intentionally or accidentally. Of the native grasses, many are known to have value as F. P. though only a few of them are grown commonly on farms. Thus the native grasses of Texas are remarkably rich in variety, are fed on by vast herds of cattle, and doubtless some of them would prove to be highly valuable under cultivation. The same may be said of the grasses of the Great Plains. Of native grasses the Kentucky blue grass has acquired most fame. It is highly valued for hay, but its chief excellence is as a pasture plant, it attaining its highest perfection in the rich calcareous soil of Kentucky. Yet in Oregon this grass, highly prized as it is in the East, is looked upon as one of the most troublesome of weels, it being very difficult to eradicate on account of its rapid propagation rich calcareous soil of Kentucky. Yet in Oregon this grass, highly prized as it is in the East, is leoked upon as one of the most troublesome of weeds, it being very difficult to eradicate on account of its rapid propagation by root stalks and stolons. Clover, though not a grass botanically, is one of the most valuable of F.P. There are about 200 species of the genus Trifolism, while some species of allied genera, having similar leaves, are popularly called clover. Only three of these are native to the eastern section of the U. S., but there are more west of the Mississippl, while some 40 are found west of the Rocky Mountains. The kinds usually cultivated are European species, principally the red clover (T. procusabess). Of these the red clover is most largely raised for forage purposes, while the white clover is most largely raised for forage purposes, while the white clover is often grown where manure is scarce, to be ploughed under as a fertilizer, a crop of about two tons to the acre being equal to five cords of stablemanure. The burr clover has become naturalized in California and other Pacific States and thrives greatly. Cattle are fond of it, but the burr-like seeds are very vanoving to sheep raisers. The slabila is a famous manure. The burr clover has become naturalized in California and other Pacific States and thrives greatly. Cattle are fond of it, but the burr-like seeds are very annoying to sheep raisers. The alfalfa is a famous plant for dry regions, and will afford two or three cuttings a year even in such soils as that of Utah. Many other F. P. allied to the clovers might be enumerated, of which we shall name here only the white lupine, largely grown in Southern Europe as a forage plant, and also to be plowed under for fertilizing purposes. Vetches and tares are also highly prized in Europe as pasture plants, but have received little attention in the U. S. The same may be said of the bird's-foot trefoils, small herbs nearly stilled to the true clovers. For aker, Joseph Benson, statesman, was born in Highland co., obio, July 5, 1846; entered the Federal army at the age of 18, and was captain of his company at 21; graduated from Cornell in 1869, and began the practice of law at Cincinnat; in 1879 was elected a judge of the Superior Court, holding the position five years; was elected governor of Ohio in 1886 and again in 1887, but was defeated in 1889; was elected U. S. Senstor in 1896 to succeed Calvin S. Brice. F. is one of the acknowledged Republican leaders, a brilliant and forceful orator.

forceful orator

the acknowledged Republican leaders, a brilliant and forceful orator.

Forbes, Archibald, war correspondent, was born in Morayshire, Scotland, 1838. Student of the University of Aberdeen. After serving for several years in the Royal Dragoons, he became (1870) the war correspondent of the London Daily News, accompanying the German Army during the entire period of the Franco-German war. He also visited Iudia during the famine of 1874; witnessed and reported the Servian troubles of 1876, the Russo-Turkish war of 1877, and the Afghan and Zulu campaigne of 1878-80. He subsequently made a lecture tour through the U. S.

Force, Peters, antiquarian; born at Passaic Ealls, N. J., Nov. 26, 1790; published the National Journal, which was the official journal of the administration during the presidency of John Quincy Adams, and devoted thirty years to his documentary history of the American colonies. His collection of books, manuscripts, etc., relating to American history was purchased by Congress for \$100,000. He was mayor of the city of Washington, D. C., from 1836 to 1840, and died in that city on January 23, 1868.

23, 1880.

Ford, Austin E., journalist, born at Boston, Aug. 31, 1857; received a collegiate education, and in 1874 became editor of the Freeman's Journal and managing editor of the Irish World; entered politics in 1882, as Republican candidate for Congress but was defeated; led the Irish revolt against Cleveland, in 1894; was again defeated for Congress in 1894, in which year he was appointed a Fire Commissioner of New York city. Died Sept. 17, 1896.

Ford, RICHARD, an English author and traveller, born in 1796; wrote especially of Spanish art. Died in 1858.

Ford, in Kassaz, a S.W. co.; area, 1,040 sq. m. Intersected by Arkansas river and Crooked creek. Surface

nearly level. Cattle and sheep raising are the chief industries. Cap. Dodge City. Pop. (1895) 4,940.

Ford City, in Penasyleonia, a post-village of Armstrong co., 6 m. from Kittanning, on Alleg. Val. R. R.; has plate-glass works. Pop. (1890) 1,255.

Ford Gyee, in Arkansa, a post-village of Dallas co., 99 m. 8. of Little Rock, on 8t. Louis & S. West. R. R.; has saw and grist milla, and is trade center of a large cotton growing district. Pop. (1890) 980:

Fore fathers' Day. The anniversary of the day (Dec. 21) on which the Pilgrims landed in Plymouth, Mass., in 1620; celebrated in New England, and by Congregational clurches throughout the U. S.

For'est, in Wisconsis, a N. co.; area, 1.276 sq. m. Sol, fertile, well watered and well timbered. Cap. Crandou. Pop. (1895) 1,288.

For'est City, in Penasylvania, a post-borough of Suguelhanua co., 30 m. S.E. of Mouttrese, on Eric and N. Y., Ont. & West. R. Rs.; has coal-breakers. Pop. (1890) 2,319.

For'estry, n. The care and management of trees in forest; comprising the proper utilization of natural forest growth, the planting of and care for new forests, and the reproduction of forests where unwisely destroyed. Two important objects need careful consideration in forestry, the first being the furnishing of a supply of wood sufficient for human needs, a subject of the highest importance in view of the host of uses to which wood is new put; the second being the preservation of forests where needed for the conservation of the water supply, and where they exert some favorable influence upon climate. To this latter object little attention was highest importance in view of the host of uses to which wood is now put; the second being the preservation of forests where needed for the conservation of the water supply, and where they exert some favorable influence upon climate. To this latter object little attention was paid in the past, and almost irreparable injury has been caused by the beedless deforesting of mountain slopes. Within the 19th century man has awakened to the injury caused by recklessness in this direction, and attention is being paid to the preservation of existing forests, and to the reforesting of certain denuded localities. The forest has a large influence upon the rainfall, both in affecting the meteorological conditions and causing a more regular distribution of rain throughout the season, and in checking the too free outflow of rain water. The forest holds the soil in steep slopes, prevents erosion, checks evaporation by excluding sun and wind, holds the fallen water in the soil, humus and litter of the forest floor and yields it to the streams by slow percolation, instead of by rapid downflow on slopes whose soil has been washed away by the lose of their forest covering. The difference between the two is that in the one case the water is delivered gradually to the streams, which remain far more uniform than in the other, where rapid outflow and dry intervals alternate, yielding occasional dangerous floods, with intermediate states of very low water. Another injurious effect of demodation of hillsides is the carrying of vast quantities of sand and mud into the streams, silting them up and seriously affecting navigation. There is abundant evidence that these results occur. For example, we may give the desolation of certain formerly fertile regions in the Mediterranean countries, undoubtedly due to the destruction of their forests. An opposite example may be drawn from the experience of France, where certain denuded hill slopes have been reforested, with the result of reproducing the lost regularity of flow in the streams. The poorer

Management of Forests.-Natural reproduction takes Management of Forests.—Natural reproduction takes place by the growth of new sprouts to replace fallen or felled trees, either from the old stump or from the seed. In cutting it is important to select the fully grown trees, leaving those of partial growth to replace losses, annually cutting only those trees which are of full size and in condition for market use, and thus confining the results to a limited quantity of wood yearly, and gaining a regular crop of unlimited duration. This is in opposition to the method of the lumberman, who in heddes diarregard of the future cuts without regular conditions. sition to the method of the lumberman, who in heedless disregard of the future, cuts without regard to coming needs, leaves the brushwood to dry and furnish ready fuel for the fires to which such great forest loss is due, and in every respect shows lack of foresight in his industrial activity. It is first to Germany and secondly to France that we must look for the adoption of rational and judicious systems of forestry. The contracted limits and growing population of these countries long since rendered attention to their forests necessary, and movements in this direction leaves even before the time since rendered attention to their forests necessary, and movements in this direction began even before the time of Charlemagne. Ban forests, those kept for the use of the king in the chase, were established and kept intact. But long earlier the communistic villagers had adopted regulations for the conservation of the village woodlands, the amount and kind of wood to be cut being carefully decided each season. Pasturing of sheep and goats in the woods was early prolibited, from their nijury to young shoots, and the number of thegs allowed in the oak and beech woods was carefully limited. Each man had also to plant a number of trees in proportion to his use of wood, thus forming a sort of an bor-day regulation. We have historical stakements of the replanting of certain destroyed forests. The effect of the Thirty Years War, however, with later hurtful influences, largely put an end to these wholesome practices, and it was not until late in the leth century that new attention began to be paid to the forests, while the true steps of reform have largely been confined to the 19th century. Of the German forests, about half the area is under Of the German forests, about half the area is under state and communal supervision, and these are kept subject to strict inspection by government officials. The

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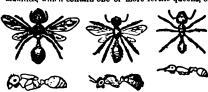
remainder, in private hands, are held under certain legal restrictions which prevent destructive use of their timber. The universities have chairs or schools of F., and there are twenty periodicals devoted to this single subject. The policy of the government is to cover the waste and unfertile lands with forest growth and clear the richer ones for agricultural use, the result having been a considerable increase of the forest area within revent years. Frunce.—A similar progress in F. has taken place in France, which was divided into forest districts in 1669, the cutting on private as well as public lands being regulated by law. During the Revolution destruction proceeded unchecked, and France has ever since been engaged in repairing the damages done in these few years. The forest administration was revived by Napoleon in 1801, but the present system, based on that of Germany, was not adopted till 1827. Later laws have given the State certain supervision and control over private forest lands, particularly those on mountain alopes. About 8,000,000 acree of once fertile land have been injured in consequence of mountain deforestation, and many millions of dollars have been spent in the effort to regain the lost forests and accumulate new soil. It will take perhaps \$40,000,000 to complete the work. Austria, Italy and Switzerland have strict forest laws, but this subject is neglected in the other countries, while in Great Britain it has received little attention.

\*\*United States.\*\*—In the U. S. no system of F. has existed until within the past few years. The total area of woodlands is about 500,000,000 acree, on which the annual cut amounts to over 20,000,000,000 cubic feet, about four-fifths of which are used for firewood. There has been in the past no government forest policy worthy the name, the woods have been cut with the utmost reklessness, and every year fires sweep over thousands of square miles of forest, causing a destruction far surpassing that by the axe. In 1891 a number of forest reservations were made,

sive areas, though his policy in doing so has been strongly questioned and his action may be set aside. The government holds about 50,000,000 acres of wood-lands, which, under wise management, may be made of the highest value. Forestry commissions have been formed in a number of the States, and active measures are being taken to rouse the people to a sense of the importance of an enlightened care of their woodland treasures. New York has taken active steps in this direction by setting aside a forest reservation in the Adirondack region, and the State of Maine exercises a useful supervision over its forests, but the work of reform elsewhere is yet in its infancy. The establishment of Arbor Day, now celebrated in most of the State, is a useful step in the right direction, while among societies of private origin, the American and the Pennsylvania Forestry Associations are doing active work. On the whole, we seem approaching a turn in the tide, and the 20th century may see the 19th century work of destruction followed by one of preservations of the U.S. prior to 188%, were as follows: Alouka, the Afognak Forest, area unestimated; Arizona, Grand Cafyon, 1851,520 acres: Culifornia, San Gabriel, Sierra, San Bernardino, and Trabuco, 7,290,240 acres in all; Res Micro, Pecca, 311,040 acres; Oregon, Bull Run, Cascale, and Ashland, 4,653,440 acres; Wyomisg, Yellowstone, 1230,040 acres. The following new reserves were added in 1896; Culifornia, Stanislans and San Jaciuto, 1,428,480 acres; Idaho and Washington, Priest River, 646, 120 acres; United and Monut Ranier, 8,017,920 acres in all; Ross Bouton, 1,428,480 acres; Idaho and Washington, Priest River, 646, 120 acres; United and San Jaciuto, 1,428,480 acres; in all; Bubota, Black Hills, 907,680 acres in all; Wyomisg, Teton and Big Horn, 1,967,120 acres in all; Wyomisg, Teton and Big Horn, 1,967,120 acres in all; Perumlecidus (Formiti'-idee), n. pl. [From Lat, formica, and.] (Exiomed). The ant family; insects belonging to the sub-order Hymemopters, which have long, in common

acce intelligence displayed by them, their social motis, and their unremitting industry.

In appearance and structure the ants display a resemblance to bees and wasps. They usually dwell in communities, which contain one or more fertile queens, or



(male) (worker) Fig. 2882.—THE OCCIDENT ANT AND LARVE.

females; workers (undeveloped females) of several sizes; and, in the case of some species, soldiers, or ants whose special duty is fighting, and which have remarkably large heads. These are all wingless. The winged forms comprise males and females, which leave the nest (usually in September) for their "swarming" or "mar-

riage flight," being forced to do so in some instances by the workers. There are large numbers of these sexual forms, and at times, when pouring forth at once from many nests, they fill the air in clouds. Mating takes place in the air—though it may also do so in the nest. This duty performed, the males, having completed the one function of their lives, sink to the carth, where they soon perish or are devoured by insectivorous animals, they being unprovided with weapons of defence or excavation. The fertilized females tear off their wings as no longer of use to them; and such of them as escape destruction burrow into the ground, as the first step toward the formation of a new colony.

destruction out row into the ground, as the first step toward the formation of a new colony. Colony Life.—The cycle of events in an underground colony, the kind formed by the great majority of acca-may be briefly described. When the queen has exca-vated a gallery of sufficient depth, or perhaps found a

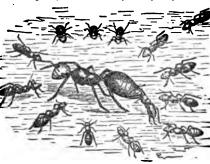


Fig. 2883.-QUEEN ANT, WITH BUDY-GUARD.

place of shelter and safety under a stone, she deposits her first eggs, and carefully rears and feeds the larvee hatched from them. The first brood is composed wholly of workers, and is a small one, varying from 30 or 40 to a much smaller number. It needs to be small, for the mother ant is obliged to seek food for herself and her offspring until they reach maturity; when they at once enter upon their duty as laborers, feeding the queen and her new broods, nursing the young, enlarging the underground chambers, and taking on themselves all the active duties of the community. During the remainder of her existence the queen is occupied in egg-production, though probably aiding in nursing the young, and rarely leaves her subterranean quarters. If she does so she is always surrounded by a body-guard of careful attendants, alert to the least threat of danger; for on the preservation of the queen rests the well-being of the community. She is fed and cared for by

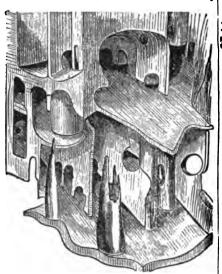


Fig. 2884.

HALLS AND GALLERIES OF THE CARPENTER ANT.

the workers, who continually surround her and attend to her wants. In a large nest there may be several queens, and workers have been seen, after a marriage flight, to seize and drag into the nest newly-fertilized queens, doubtless to add to the productive powers of the community, which meets with severe losses in its population from the constant perils to which the workers are subjected in their out-door foraging and wars. The queen lays a vast number of eggs, which, after the first broods, produce males and females and the various forms of workers. The eggs are minute in size, and white or yellowish in color, hatch in 15 to 30 days, and yield white, legless grubs, or larves. Eggs and young alike are carefully attended to by the workers, who lick them, feed the grubs, carry them lack and forth during changes of weather, and fee with them or fight for the workers, who continually surround her and attend

them when assailed by enemics. They also seem to assort them according to age and size, and display in their care for them a striking degree of intelligence or development of instinct. At the end of the herval period, which may differ in different species from a month to several months in length, the grubs pass into the pupal stage, sometimes spinning a cocoon, in other species remaining naked. It is these white or straw-colored cocoons which are frequently mistaken for anteggs. No food is taken in the pupal state, though the pupe are most carefully attended to by the workers, the whole life of the formicary seeming devoted to the rearing of new members of the community. It is in the pupal stage—in the ants as in all insects—that development from the larval to the mature form takes place, the wings and other organs of the mature insect appearing. At its termination the workers help the young ants from their cocoons, unfold their new legs with care, and smooth out the wings of the males and females. This ends the round of life in the formicary, the young workers at once taking up their life duties, probably with some instruction from their older brethern, while the sexed forms spend their days in idleness and enjoy ment until the marriage season arrives, being wholly dependent on the workers for food.

And Anatomy.—The workers, or "neuters," resemble the queens in organization, being wingless and undeveloped females. In some cases they have been seen to lay eggs, from which, though unfertilized, workers are produced. The workers are of two sizes, the major and minor, while in some species there is a third, or dwarf form. The soldier, occuring in a few species, is a special form of worker. The art's loody is divided into head, thorax, and abdomen, the brain being located in the central and upper part of the head. It is, as Darwin has said, in view of the great intelligence of this small creature, the most marvellous atom of matter in the universe. There are two conpound eyes, and in many species three additional

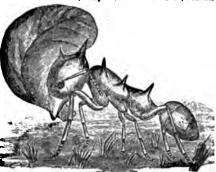


Fig. 2885.—OUTTING ANT MARRYING, A. LEAF.

Fig. 2885.—OUTLING ΦΑΤ ΜΑΒΡΥΙΝG A. LEAF.

of the aut. They are worked by strong muscles, are concave within, and armed with sharp teeth along the edge. It is with these that the ant performs the many duties of its varied life, digging, carrying, sawing, cutting, fighting, &c. The thorax bears three pairs of legs, which terminate in strong claws, efficient aids to the mandibles. The abdomen is compressed of stinging organs, which in some species are rudimentary, in others can inflict as painful a wound as the bee or wasp. In the fore part of the abdomen, at the rear end of the cesophagus, is the crop, which receives the food before it enters the gizzard, stomach, and intestine. This food, in a liquid form, can be kept in the crop as a storehouse, and is frequently used in feeding the young and the males and females, being regurgitated through the mouth for this purpose. In all ants the crop can be greatly distended, the muscular membrane which bears the plates of the abdomen being highly elastic. In the species known as honey ants, it becomes immensely inflated, looking like a currant or small grape. This condition is confined to certain workers, who act as food reservoirs or living honeycombs for the rest of the community.

Formierries or Ant Nests.—Most ants dwell in homes

community.

Formicories or Ant Nests.—Most ants dwell in homes excavated in the earth, but in addition to these mining ants there are some species, known as corpenter ants and arbored onts, which may be briefly described. The carpenter ants excavate their nests in wood. The lest known species, Cumponotus pennsyltanticus, is a large black ant found widely throughout the U.S. and also in Europe. It excavates growing thalks and described. black ant found widely throughout the U. S. and also in Europe. It excavates growing timber and decaying trees, producing a labyrinth of cella, which are arranged in stories and half-stories, with connecting halls and corridors. The partitions are often very thin and the walls and floors fairly smooth. These ants may often be seen in trees, thrusting out their black heads from tiny openings in the bark, and dropping the chippings which have been cut off by their sharp mandibles. The arboral ants make their nests in the leaves of trees; some building in the tree itself, others carrying the leaves underground. Those that build in branches make nests of leaves and other fibres, which are suspended to the wood, and bear some resemblance in 1272

structure to those of the paper-making wasps. The underground ants of this group, known as cutting ants, have remarkable habits. One species, found in Texas and the Southwest, excavates chambers of remarkable size, the central portion being sometimes as large as a small cellar. Tunnels radiate from this in all directions, cularging at times into chambers, some of which are 3 feet long by 12 inches wide and 8 deep. Within these chambers are found masses of a delicate leaf-paper variously arranged, the paper being made from leaves by a process of chewing. It is arranged into cells, in which great numbers of small ants and larve are found. This material is cut from the leaves of trees, generally

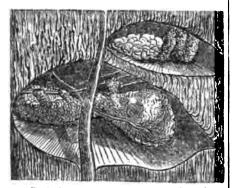


Fig. 2886.—CAVES OF THE CUTTING ANT (TEXAS).

at night, the cutters ascending the trees and cutting from the leaves circular pieces of the diameter of a dime. The columns of cutters, on their way to and return from the tree, are attended by soldiers, who seem to act as scouts or pioneers. The piece of cut leaf is borne upright in the manditule and carried to the nest. From this habit these ants have often been called persod casts. In some South American species of cutting ants, a small fungus has been found to grow on the heap of leaf fibre within the nest; and the theory is advanced that this is used as food by the ants, who have gathered the leaf as a fertilizing material. If this is the case, it is another remarkable evidence of ant intelligence, which thus makes gardens of humus to raise edible plants for food.

Mising Auts.—The underground homes burrowed by ants in general are much the same in formation in all species, consisting of a system of galleries irregularly disposed, though with some tendency to arrangement in stories. They are generally horizontal in direction, these at different depths being connected by vertical galleries. At various points they are hollowed out into thembers, which serve as nurseries and store-rooms for food. One or more openings lead to the surface. These, the gate-ways of the colony, are nearly always guarded by sentinels, quick to challenge all comers and to give the aiarm in case of danger. At night and in stormy weather the gates are sometimes carefully closed. Some-

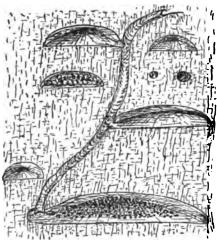


Fig. 2887.—NEST OF OCCIDENT ANT—VERTICAL SHOWING STORE AND SEED-ROOMS.

times the gates are sedulously concealed as a measure of protection, as in the case of the slave species when threatened by the slave-makers. The home of the ant is, in fact, an underground fortification, and is guarded with all the care which man gives to his fortress. In truth, war, as an art, had its origin with the ant; and, in many species, attack and defence form leading incidents of their lives. Though, as a rule, these ant-homes make little display upon the surface, in the case of some species large mounds of earth are built up above the surface, within which their galleries are made. The mound-

making ants of the Alleghenies erect earth mounds of a regular conical shape, which is some instances are more than 3 feet high and from 20 to 40 feet in circum-ference of tase. On Brush Mountain, Pa., are nearly

a regular collical snaps, which in some instances are more than 3 feet high and from 20 to 40 feet in circumference of Issee. On Brush Mountain, Pa., are nearly 2,000 of these mounds, grouped like an ant city, and probably all springing from one colony. When cut vertically through, they are found to be perforated with galleries in all directions, while others beneath the surface serve for places of refuge in case of disturtance. The galleries are very carefully constructed, the pellets of earth seeming to be cemented together, as if by a salivary secretion. The interior is smoothed and the roof of the gallery neatly arched.

Food of siste—Ants are omnivorous in their taste for food. Much of this is drawn from the sweet juices of plants or from insects yielding sweet secretions, from fruits, the oils of nuts and seeds, &c.; but they are also carnivorous, devouring dead insects and other animals, organic refuse, and living insects, on which some species prey largely. This is particularly the case with the genus Ection, the famous driver onto of Africa and South America, which make excursions in bread and long columns of raidera, devouring every insect and small animal that comes within their reach, ascending trees and invading houses in their search, in which they are warmly welcomed by the inhabitants of the tropics, who know that when an army of Ecitous has passed their homes will be free for a time from insect pesta. Interesting stories are told of the persistency with which they explore every nook and cranny, the terror of the mound-making ants of the Alleghenies have been seen to capture files even upon the wing, while the agricultural ants of Texas have been observed, after a shower, to rush from their gates, scatter through the foliage, and bear home multitudes of living insects that have

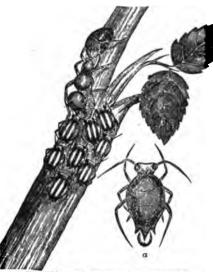


Fig. 2888 .- ANT ATTENDING AN APRIS HERD. e, Aphie (magnified).

e, Aphis (magnified).

been beaten down by the rain. Ants even feed on each other, stronger devouring weaker species; and they act the part of cannibals in devouring individuals of their own species. In truth, ants seem inveterately hostile to all others not of their own ommunity. In this they resemble the primitive communities of mankind; even the ancient Greeks, who looked on all foreigners as barbarians and foes, had advanced little beyond the ant scale of ethics.—Ast Coses. Ants cannot masticate solid substances, but lick or lap up their food as a cat takes milk. In eating seeds, they obtain the nutriment by licking the surface. They resemble human beings in keeping domestic animals, the so-called ant cows, from whom they obtain food by a milking method of their own. This is one of the most curious and interesting habits of the ants, and has attracted much attention and observation. The insects known as aphides, or plant-lice, excrete in considerable abundance a sweet substance known as honey-dew, of which ants are particularly fond. These insects gather upon the leaves and other green tissues of plants, suck their sap, and axude this sweet liquid in minute transparent drops. The ants lick this up greedily as it exudes; and to induce the aphides to yield it more freely they stroke the insect gently with their antennes, a process strikingly analogous to that by which the cow is induced to yield her milk through gentle pressure of her udder. Ants are said to keep, as it were herds of the aphides on leaves, attending them assiduously, and apparently claiming them as individual property, or at least as the property of a certain ant hill. They even seem tog fourther than this, and support their aphis herds during the winter. On turning over flat stones in dry or sandy soil in early spring groups, of aphides on yele seen clinging to the under surface in good condition, as if having been care-

fully shedherded during the winter and brought out from their stables in the ant hill to this situation in from their stables in the ant hill to this situation in spring, to enjoy the growing warmth. Ants are found in close attendance upon them, and on their being thus disturbed seize them in their mandibles and carry them quickly into the nest, in whose chambers they have evidently been cared for during the winter. This is not the only resemblance of ant to human habits in this respect, since they actually breed their minute cows, rearing them from the egg as they do their own larves. Some species cover the aphides, when feeding on plants, by an arch of earth and wood fibers, thus building samerer stables for their stock. A species of caterpillar, which similarly exudes fluid, is attended by ants in the same way as they care for the aphides. In addition to the aphis, other species of insects inhabit ant nests, though same way as they care for the aphides. In addition to the aphia, other species of insects inhabit ant nests, though



Fig. 2899.

ANTS PREDING ON SEEDS, BY LAPPING AND LICKING.

ANTE PREDING ON SEIDS, BY LAPPING AND LICKING. for what purpose is not known; these are mostly little beetles, some of which are quite blind, and found nowhere else, the auts seemingly taking as much care of them as of their own young.

Wer and Blowery.—The aphides and beetles are not the only domestics of these small proprietors. Certain species keep slaves as well, which they obtain, in true human fashiou, by warlike raids; and in simular human fashiou, by warlike raids; and in simular human fashiou, by warlike raids; and in simular human fashiou they are made to do all the work. The wars of antsare matters of frequent occurrence and have attracted universal attention, man being particularly interested in finding that there is another animal that emulates him in his war-making habit. Some of these wars are waged for the purpose of obtaining slaves; but this is not the only source of emmet warfare, these little creatures being fiercely pugnacious and inveterately hostile to foreign communities. As a rule all ants are warlike, though some are specially marked for their bellicuse spirit. Not only their nests, but sometimes their paths and hunting grounds, are guarded by sentinels, which furlously repel all intrusions on their domain, attacking intruders with fierce energy. Aut wars often become pitched battles, in which hosts of warriors on both sides are engaged; and these conflicts are more frequent and bitter between communities of the same species than between alien hosts. What leads to these conflicts does not often appear. Intrusion of one community on the territory of another doubtless is a leading cause; but, whatever the cause, the battle is usually to the death. Our little pavement ant is a very belligerent warrior, and may often be seen engaged in fierce lattle with the population of a neighboring nest, great hosts taking part in the fight, and struggling with such bilind ferecity that they may be lifted and transferred to lox or plate without for an instant relaxing their fury of combet. Their weapon



Fig. 2890. AGRICULTURAL ANT CARRYING A GRASS-STALK.

in which an army of one species invades the formicary of another, which is besteged by the one party and defended by the other, and if taken is thoroughly plundered. It is chiefly the slave-making ants that make these foraya, their objects of plunder being the cocoons and the larvee of their victims, which are carried to their own homes, reared there, and become workers for the benefit of the conquerors. The shining elseve-making ant of America is born only for fighting, depending for everything else on its slaves. It has become incapable of caring for or even feeding itself, and would die of hunger if not fed by its slaves. But as a fighter its energy and ability are unsurpassed. The red slave-maker, another species, retains all its powers. The ants usually enslaved are Formson fusces, a black species and F. Schenfussi, a reddish yellow one.

The latter does not tamely yield to the onslaughts of its foe, but is a fierce and determined warrior, fighting with furious energy, and only yielding when overwhelmed, when the survivors rush into their conquered home and seek to carry off the body sought for. The conquerors follow in bot haste, seize the ecocons, and pursue the fugitives to rob them of their prizes. The young thus taken from their native homes do not seem to suffer in consequence. They act like native members of the new community, working side by side with their adopted masters, and, in case of the helpless shining slave-maker (Polgeryus lacidus), attending on the wants of their lords with fillal devotion, and, in case of an enforced change of habitat, carrying not only the young but their helpless masters to the new home.

Herresting Anta.—In addition to the ants mentioned, there are two classes which cail for special attention from their remarkable habits, those known as harvest-

from their remarkable habits, those known as harvest-ing and honey ants. The name harvesting auts has been given to caterin species which display a striking

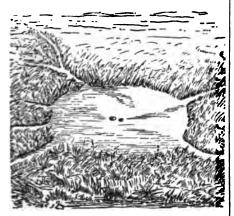


Fig. 2891.-- NEST OF HARVESTING ANT WITH PATES.

degree of intelligent foresight, and which have been particularly observed by Moggriage in southern France, McCook in Texas, and Mrs. Treat in Florida. These ants are distinctly agricultural in habit, since they care them in their underground galleries, doubtless for use as winter food. Many ancient authors speak of them; and the stores of grain which they gather in Palestine appear to be so considerable that the Talmud gives a precept to settle the question of ownership of the grain found in ants' nests. Some travellers speak of these industrious harvesters as rapidly carrying away a bushel of grain; and Bates speaks of South American species which carry off as much as two bushels of mandioca in a single night. In times of famine in India, the nests of harvesting ants are sought and rified by the natives for food. Of observations on these interesting species, the cheest and most complete are those made by Rev. Dr. Henry C. McCook, of Philiadelphia, on the agricultural ant of Texas. We can give his interesting description only in epitome: These auts construct their subcerranean homes in several stories, containing nunerous passages, rooms and granaries, the roofs of the latter supported by pillars. In these granaries, which



Fig. 2892. -- NEST OF THE HONEY ANT

lie at depths of from an inch and a half to two and a half feet below the surface, the grain is stored. The nest is not mounded, and opens by a small gateway to the surface. One of the most interesting facts noted by Dr. McCook is that the ants make a wide circular clearing around the mouth of the nest, in which they permit only a single kind of grass to grow, killing out all other plants by biting them off as they appear. Lineccum declares that the ants even sow the seed for this special crop, but McCook found no trace of such an intelligent habit. But it is certain that they harvest the ripe seed, storing it in their underground granaries, and then remove the dry stubble from the field, which is left have for the next year's crop. Our farmers go thitle further than this in the cultivation of grain. The ants do not confine their operations to this specially-cultivated home field, but go abroad for additions to their stores, making for this purpose long roads which branch in every direction through the surrounding, He at depths of from an inch and a half to two and a

grass, the forest of the ant kingdom. These roads are broad near the nest, but gradually narrow until they disappear. They are made level and kept clean from debris, and on them lines of ants may be continually seen, going and coming, and bringing in the grain from the ripe grasses of the outer regions. Such cleared fields and radiating roads have not been seen outside of Texas, except in a nest of Indian ants described by Dr. Jerdon. The garnered grain is carefully attended to.

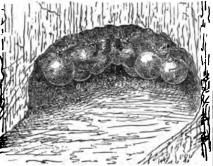


Fig.2893,-HONEY-BEARERS CLINGING TO THE BOOF OF A HONEY-CHAMBER.

If the seeds become wet and begin to sprout, they are carefully carried to the surface and left to dry in the sun, while only those which have not sprouted are taken back into the nest. In India much of the grain is carried up before rains and left to be devoured by birds. Moggridge thinks this is done to prevent the passages becoming choked by sprouting and swelling grain. He says that the Mediterranean ants, if sprouting begins, at unce bite off the radicle or fibril of the seed. As to the eating of this food, it was formerly believed that ants were incapable of eating anything hard, and it is probable that the seed is not eaten until it has offened by germination. In eating, the seed is held by the fore feet, and the juices and minute particles presed out by the tongue, this perhaps being added by the secretions of the salivary glands. On the whole, the intelligence displayed by the harvesting ants is extraordinary when we consider their minuteness.

Honey Ants.—Dr. McCook has added a valuable chapter to ant history in his description of Myrmecocystake Nortus-decodorum, which extends from Southern Mexico to Colorado, where it was observed by him in the "Garden of the Gods." These ants are nocturnal in habit, their food consisting of honey, which extueds from galis on the scrub-oak. The ants work all night long, gathering this honeyed exudation, which is stored up for later use in an extraordinary manner. The ants lack the instinct of the bee, to make honey-combs to contain their liquid food, but instead they convert certain members of the colony into living honey-combs to contain their liquid food, but instead they convert certain members of the colony into living honey-combs to contain their liquid food, but instead they convert certain members of the colony into living honey-combs to contain their liquid food, but instead they convert certain members of the colony into living honey-combs to contain their liquid food, but instead they convert certain members of the colony into living honey-combs to contain



Fig. 2894.—HONEY-BEARER FEEDING WORKERS

food apply their mouths to that of the honey-bearer which by a slight contraction of its crop-muscles, forces which by a signt contraction of its crop-muscles, forces out minute drops of honey, which gather on the mouth organs and are licked off by the hungry ants. This is very probably the only instance in nature in which a living creature is converted into a depository of food for the use of its fellows. The natives of New Mexico riffe the nests of the honey ants and use the honey-bearers as deserts to their meals. A plate of the ants is placed

on the table, and the honey extracted by a pressure of the swollen abdomen between the teeth. The squeezed-out honey is also said to be sold in the Mexican markets as a lease of a drink resembling mead.

Personal Habits.—Careful study of ant life gives us much information concerning the personal habits of these industrious creatures. No animals pay more attention to cleanliness; and, though they dwell in dirt, they do not permit it to soil their bodies. They frequently make a thorough cleansing of their bodies, particularly in the intervals of their work after eating and sleeping. In this duty they assist one another, the cleanser beginning at the face, which is thoroughly licked, even the mandibles and jaws being cleansed. In this way the whole body is gone over, while the attitude of the ant operated on is one of intense satisfaction, as if the process was thoroughly enjoyed. Ants also clean themselves, and take similar care of their young, which also appear to enjoy the operation. Ants have interesting funeral habits. Their dead are carried from the nest,



2895.—ANTS AT THEIR TOILET—LICKING OFF ABDOMEN AND BRUSHING THE HEAD HAIRS,

and deposited in some chosen place of sepulture. The same is done with the carcasses of aliens; but in this case they first extract the juices of the body—a custom which they do not practice in the case of their own dead. The red slave-makers have two cemeteries, depositing the bodies of the slaves in special groups, while those of their own dead are taken far from the nest and described are remarked. ceed. The realiste-makers have two cometeries, depositing the bodies of the slaves in special groups, while these of their own dead are taken far from the nest and deposited separately, not in groups. Ants have their intervals of sleep, their slumber being often so profound that they may be tickled with a feather without awaking. Their hours of sleep vary, sometimes extending to three hours. On waking they occasionally yawn, and invariably begin a cleaning process, licking their bodies, and combing them with the spur on the lower leg. Their life, though largely one of work, is not entirely so. They have their hours of relaxation, in which they seem to enjoy themselves in sports and games. Dr. McCook's observations indicate that they have methods of amusement resembling games, and that they are not without a sense of humor, in certain tricks which they seem to play on each other. Dr. Forel, the Swiss naturalist, has recently confirmed the observations of Huber and McCook on the occasional playfulness of ants. Intelligence.—Ants have well developed senses. They are very sensitive to slight changes of light and hearing sounds which are beyond our powers. Their sense of smell is very highly developed. It is this which enables them to flud their way, though in this they often seem at fault. They seem to have the instincts of fear and caution highly developed. In cases where a line of suts has been seen ascending a wall to some store of sweets, and some of them have been killed by rubbing the finger across the line, the newcomers indicate the greatest terror on arriving at the place of death, running back in seeming consternation. Several days pass before they will venture to cross the spot, some odor or other indication deterring them. Ants are able to recognize the members of their own family



Fig. 2896.—FOOT AND SPUR-COMB. e, claw; b, spur; c, comb.

even when intoxicated, or when they have been removed from the nest as larves and brought up separately. Some naturalists think that they can communicate Some naturalists think that they can communicate with each other by something approaching language. Ants of foreign nests are quickly recognized and are always received with hostility. Such a foreign antiplaced in some receptacle near a nest, will soon be surrounded by a hostile throng, making frantic efforts to penetrate the fortress and attack their foe. "When we see an ant hill," says Lublock, "tenanted by thousands of industrious inhabitants, excavating chambers, forming tunnels, making roads, guarding their home, gathering food, feeding their voung, tending their domestic animals, each one fulfilling its duties industriously and without confusion, it is difficult altogether to deny them the gift of reason," or escape the conviction "that their mental powers differ from those of men not so much in kind as in degree." It is certainly of striking interest

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to find these communities of minute creatures practicing many of the arts and displaying many of the passions, feelings and habits, of human communities, and possessing industrial customs considerably in advance of those ing industrial customs considerably in advance of those of the lowest class of mankind. Ants are very numerous in species, each species having some peculiar habit of its own. They are divided by scientists into four subsamilies, the Fornicides, Mymicides, Pomerides, and Dorylides, of which the first two comprise the commonly known species. The "white ants" are not ants at all, but belong to a different order of insects, the Neuroptera. See Tarmates. Hypers, Natural Midean of Anton.

tera. See TERMITES.

Books of Reference:—HUBER: Natural History of Ante;
FOREL: The Swiss Ante (in French); E. André: Les
Fournis (in French), a popular work, and Species of the
Formicidæ (in French), a descriptive work; Lubbook:
Anta, Bees, and Waspe; MCCOOK: Agricultural Ant of
Texus; Money and Occident Ante; and Tenants of an Old Furm

Firm.

For mey, John Wriss, journalist and politician, born at Lancaster, Pa., Sept. 30, 1817; studied the art of printing; in 1857 became editor and part proprietor of the Lancaster Intelligencer, and in 1840 united with this the Journal. In 1845 he was appointed surveyor of the port of Philadelphia, where he became editor of the port of Philadelphia, where he became editor of the was appointed clerk of the House of Representatives in 1851 and held this office and 1855 editing meanwhile personglemain, long a prominent Democratic paper. He was appointed clerk of the House of Representatives in 1851, and held this office until 1856, editing meanwhile the Washington Union. His succeeding journalistic enterprise was with the Philadelphia Press, founded by him, in 1857, as an organ of the Douglas Democracy and in opposition to President Buchanan. In 1859 he again became clerk of the House, and on the opening of the war in 1861 became a vigorous advocate of the prosecution of the war, and an active member of the Republican party, whose candidates he supported until the nomination of Horace Greeley, whom he supported for the presidency. In 1861 he was made secretary of the U. S. Senate, a position which he held until 1868, meanwhile editing the Washington Chronicle, and acting as corresponding editor of the Press. In 1868 he visited Europe, writing letters to the Press and Chronicle which were published in 1869 as Letters from Europe. In 1870 he sold his interest in the Chronicle but continued his editorial connection with the Press, serving (1871-72) as collector of the port of Philadelphia. Progress, a weekly literary journal, was founded by him in 1878. For mey, in Texas, a post-town of Kaufman co., 21 m. E. of Dallas, on Tex. and Pac. R. R. Bols d'arc lumber is an important export. Pop. (1890) 811.

For reast, Enwin, a popular tragedian, born in Philadelphia, 1806. For nearly half a century he was one of the chief ornaments of the American stage, and also performed with eminent success on the English boards. Macbeth, King Lear, Richard III., and Othello were among his ablest Slankespearien impersonations. He was also very successful in Melamora, The Gladiator, Jack Cade, and other American plays, some of them



Fig. 2897 .- EDWIN FORREST.

written especially for him. His domestic relations were unfortunate, having been divorced from his wife in 1849. Immediately preceding his death, he was engaged in a series of readings from the great dramatic poets. Died Dec. 12, 1872, leaving a large estate, nearly the whole of which he bequeathed to found a home for aged and infirm actors, at his country-seat near the Delaware river, above Philadelphia.

river, above Philadelphia.

For reset, Natura Beddord, soldier; born in Bedford co., Tenn., July 13, 1821; acquired a large fortune as a cotton-grower. Although opposed to disunion, he entered the Confederate army and was promoted to the rank of lieutenant-general; surrendered at Gainesville ou May 9, 1865. After the war he became president of Schna, Mariou & Memphis Railroad Company. Died (ct. 29, 1877. on May 11, 1805. And the Memphis Railroad Company. Drea Oct. 29, 1877.

For rest, in 'llinois, a post-village of Livingston co., 93 m. S. of Chicago, on Tol., Peor. & West, and Wabash R. Rs. Pop. (1890) 1,921.

For rest City, in Arkunaa, a post-town, cap. of St. Francis co., 90 m. N.E. of Little Rock, on Little Rock &

Pors'ter, John, an able historian, critic and biog-rapher, toru at Newcastle, Eng., in 1812. Originally a member of the bar, he never practiced, but devoted himself to a career in literature. He conducted the

in the University; editor of the Astronomickes Jake-back, and director of the committee for the introduction of the metric system of weights and measures into Ger-many. He has contributed scientific papers to various journals, and published the lives of distinguished

ornyth (for-sith'), John, statesman, born at Freder-icksburg, Virginia, in 1780. He graduated at Princeton College, and then commenced the practice of law at College, and then commenced the practice of law at Augusta, Ga, after which he held a seat for many years in Congress. In 1819 he was sent as United States Minister to Spain; became governor of Georgia in 1827, and was Secretary of State under Jackson and Van Buren (1834-41). Died in 1841.

Port & Cough in Montana, a post-town of Custer co., 5 m. from Miles City. Here is a military post. Pop. (1890) 611.

(1890) 614

ort Low'ell, in Arisona, a village of Pima co. Pop (1890) 545

(1890) 545.

Fort Meade, in South Dakota, a post-town of Meade co. Pop. (1890) 576.

Fort My'ern, in Florida, a village (P. O. name, Myers), cap. of Lee co., 18 m. from Guif of Mexico; has a cannery, lumber mills and an alligator-akin tannery. Pop. about 1.000.

about 1,000.

Fort Myers, in Virginia, a U. S. military post, in Fairfax co., adjoining the Arlington National Cemetery, opposite Washington, D. C.

Fort Payme, in Alabama, a post-town, cap. of DeKalb co., 51 m. S.W. of Chattanooga, on Queen & Crescent R.R. Has a large hardware factory, furnace and rolling mill, stove and ice factories. Pop. (1800) 2,698.

Fort Yates, in North Dukota, a post-village of Morton co. Pop. (1800) 511.

CO. Pop. (1880) 511.
FORTUME, R. BERY, author and lotanist: born in Berwickshire, England, 1813, educated at a village school; employed in the botanical gardens of the Scotch capital and of Chiswick; director of the botanical Society of London in Northern China; was sent by the East India Company to China, to investigate the tea plant and in 1859 collected for the U. S. Government, the seeds of the tea shrub and other plants. Author of Three Years Wanderings in Northern China; Theo Visita to the Tea Countries of China, Yeddo and Peking, &c. Died April 16, 1880.

1880. Fortu'my, T Carbo Mariano, painter; born at Reus, Catalonia, Spain, June 11, 1838; atudied with Palan, Claudio Lorenzalez, and at the Barcelona Academy. Most of his life was spent in Rome. His pictures are sought for by collectors; many of his principal works are owned in the U. S. They include Camels at Reat; Arab Funtaria; Court Jester, &c. Died Nov. 21, 1874.

Forty Hours. In the R. C. church, a period of devotion lasting forty hours, in honor of the Blessed Sacrument

For'ty-min'er, s. One of the pioneer gold-seekers who went to California in 1849.

who went to California in 1849.

Fos'sil, s. By extension, a person of antiquated notions, or a thing entirely out of date.

Fos'sil Foot'prints, s. pl. Impressions of the feet of extinct animals made in mud which has become hardened into atone. The most interesting examples of these are those in the slaty rocks of the Connecticut valley, first observed in 1800, and thoroughly studied and described by Edward Hitchcock in 1836. These were at first suppressed to have been made by birds but and described by Edward Hitchcock in 1836. These were at first supposed to have been made by birds, but are now ascribed to the peculiar three-toed reptiles known as Dinosaurs, which existed in the Mesozoic period in great variety of form and size. In addition to these there have been found the foot-prints of marsupials, birds, batrachians, chelonians, &c., and impressions made by fish, insects, and other animal forms. Footprints have been found in other localities, with numerous other impressions made by animals, such as worm trails and burrows, crustacean tracks, fish and amphibian trails &c. trails, &c.

Memphis and St. L., Iron Mt. & S. R.Ra.; has cotton gina, a flour mill and a planing mill. Pop. (1890) 1,021.

Por rester, Alverd Hanny, artist and conic writer, born in London, England, 1805; educated at Islington; notary in the Royal Exchange; was a designer and modeler, and exhibited pen-and-ink drawings at the Royal Academy; engraved, on steel and wood, illustrations for his own writings. Author of Leores from my Memorandam-Book; Wanderings of a Pen and Practi; The Consic Arithmetic, &c.; contributor to several periodicals, including the Illustrated London News. Died May 25, 1872.

Porriver, John, an able historian, critic and biographer, born at Newcastle, Eng., in 1812. Originally a nember of the bar, he never practiced, but devoted himself to a career in literature. He conducted the London Examiner for nearly 20 years, during a great part of which period he also edited the Precips Grarterly Review. In 1861 he was appointed by government a commissioner of lunacy. As a historian his literary merits are of a high order, his principal works being graphkul and Historical Essays, and Debutes on the Grand Remonstrance. As a biographer he is distinguished by his Sir John Eliot: a Biography, 1509-1532; Life of Walter Savage Landor; The Life of Charles Dickens. F. was the lifetong friend of Dickens, and an executor of his will. Died in 1876.

Porréter, Willell, astronomer, born at Grünberg, in Silosis, Germany, December 16, 1832; studied at Berlin Silosis, Germany, December 16, 1832; studied at Berlin Silosis, Germany, December 16, 1832; studied at Berlin Othervatory, he was made professor extraordinary of astronomy in the University; editor of the Astronomisches Jakroback, and director of the committee for the introduction of the metric system of weights and measures into Germany. He has contributed scientific papers to various journals, and published the lives of distinguished struments. forest of buried trees exists in the southern Ohio drift deposits, whose wood is not mineralized; while at the Cascades of the Columbia a similar buried forest has been silicified, the latter region having been at one

been silicified, the latter region having been at one time actively volcanic.
Fost'ter, Birker, artist, born at North Shields, Eng., Feb. 4, 1825. He illustrated most of the standard English poets, and first attracted attention by his illustration of Longfellow's Evangeline. His first water-color, The Mill at Arandel, was exhibited at the Royal Academy, in 1859. Many of his pictures represent child-life and rural scenes. Died in 1893. Foster, Charles, statesman and fluancier, born near Tiffin, O., April 12, 1828; received a common-school and academic education, and entered mercantile life, becoming the head of a successful firm; was elected a (Republing the head of a successful firm; was elected a (Republic the contraction).

Tiffin, O., April 12, 1828; received a common-school and academic education, and entered mercantile life, becoming the head of a successful firm; was elected a (Republican) member of Cougress in 1870, and for three succeeding terms, serving continuously on the Ways and Means Committee, but was defeated in 1878; was governor of Ohio (1879-84), and on the death of William Windom was appointed (Feb. 7, 1891) U. S. Secretary of the Treasury, holding that office until March 4, 1833. Fonter, John Gax, soldier and engineer; born at Whitefield, Coos co., N. H., May 27, 1823; graduated from West Point, and entered the engineering corps, serving with Gen. Scott in Mexico; was chief engineer at Charleston Harbor (1861); made brigadier-general of volunteers and subsequently major-general. In the regular army he advanced to the position of lieutenant-colonel of engineers, with the brevet of major-general. Died Sept. 2, 1874.

Fonter, John Warnon, diplomat, born in Pike co., Ind., March 2, 1836; graduated from the State University of Indiana and Harvard Law School; practiced law at Evansville, Ind., until he entered the Federal army (1861); filled several official positions under Presidents Grant, Hayes, Cleveland and Harrison, being Minster to Russis, Spain and Mexico, and special agent of the U. S. in the Bering Sea arbitration with Great Britain (1892); was appointed Secretary of State by President Harrison in 1892. In 1894-5 he acted as arbitrator in the settlement of the difficulties between China and Japan, and has been entrusted with other delicate missions of a diplomatic claracter.

has been entrusted with other delicate missions of a diplomatic chracter. Foster, Lafatette Sabine, LL.D., statesman, born at Franklin, Conn., Nov. 22, 1806; graduated from Brown University with the highest honors; admitted to the bar; was Speaker of the Assembly of Connecticut, 1847–1848–1854, and in 1870; mayor of Norwich (1851–25), receiving every vote cast at his last election; became U.S. Senator in 1854 and was redected in 1860, acting for years as chairman of the committee on foreign relations. Upon the death of President Lincoln he became acting Vice-president of the U.S. Was appointed judge of the Supreme Court of Connecticut in 1870, and died Sept. 18, 1890. Sept. 18, 1890.

Sept. 18, 1890.

Tosater, STEPHEN COLLINS, song composer, born at Pittsburg, Pa., July 4, 1826; educated at Athens Academy and Jefferson College; was self-taught in music, French and German. Author of a number of popular songs of which he often wrote both words and music. They include: Nelly woss a Lady; Old Dog Troy; Come where my Lore lies Dreaming. His songs number almost two hundred, and for Old Folks at Home he received \$15,000. Died Jan. 13. 1864.

Died Jan. 13. 1864.

Fost'ter, in Missouri, a post-village of Bates co., 14 m. S.

W. of Butler, on Mo. Pac. R.R. Pop. (1890) 513.

Fost'ter, in North Dakota, an E. cen. co., area, 648 m.
Intersected by Pipsestem river. Surface, rolling prairie.

Products, wheat and oats. Cup. Carrington. Pop. (1890)

1,210.

Ouecault (foo-kö), Jean Bernard Léon; born in Paris, France, Sept. 18, 1819; was scientific editor of the Journal des Débais, and inventor of an apparatus by which electric light is—used in optical experiments.

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microscopic researches, &c.; was a member of the French Institute, and physicist to the Imperial Observatory; obtained the Copley Medal of the Royal Society for measuring the velocity of light. Died Feb. 11, 1868. Foul, a. (Sports.) A colliding or entanglement; a breach of rule or custom in any contest. In baseball, a stroke that sends the ball outside (or back of) the fouldings.

Foul. a. (Sports.) A colliding or entanglement; a breach of rule or custom in any contest. In baseball, a stroke that sends the ball outside (or back of) the foul-lines.

Foul Lines, s. pl. (Baseball.) Lines marked out, generally with lime or chalk powder, from the home plate through first and third bases.

Foulard (foo-litrd'), s. [Fr.] A thin, washable silk (or silk and cotton) dress-stuff, not dyed in the yarn.

Founda'tloms. (Engis.) The providing of suitable foundations for buildings and other structures is a subject which has called for much consideration of recent years, in view of the weight of the structures on we rected and the varying character of the soil on which they are built. This soil may vary from rock to gravel, and, or quicksand, each of which has its influence on the character of the foundation. A rock bottom needs simply to be levelled off, and its crevices filled with coment or concrete, or arched over where very wide and deep. Soft or disintegrated rock needs removal, and draining is requisite to prevent injury from surface water and springs. If the rock is not coutinuous, a part of the edifice has to be built on compressible soil, and some settling usually occurs, though this may be avoided at times by digging deeper until rock is again found. Hard gravel forms an excellent foundation bed, and is capable of sustaining a pressure of 5,000 lba per sq. foot, or much more than this if rock lies beneath it. In gravel the footings are spread much more than in the case of rock foundations, being usually made 50 per cent wider than the walls they are to sustain.—Sand foundations. Sharp sand, if constantly wet or dry, is practically incompressible if so confined as to prevent lateral motion. In laying foundations on this material, excavations must go below the frost line, and the trenches be thoroughly drained if there is danger of water infiltration. The footings need a 50 per cent. spread, and should be made to fill the whole width of the trench. There is danger that the heavier portions of th is first laid in successive courses at right angles to each other and bolted together, and the interstices filled with concrete. In either case water must be excluded while the concrete is settling, for fear it may wash it out before it has time to harden. The water is drained into a trench or well, and pumped out until the hardening is complete. The footings and lower walls in this case must be laid in strong hydraulic cement, and protected externally by a coating of asphalt or tar against the percolation of water. The problem is one of the greatest difficulty, subterranean springs having been known to break through a concrete bed two feet in thickness. The best solution of the problem, where available, is to dig down to solid bottom, or to reach it by driving piles. \*Pile Fossadations\*. These are of two kinds, and and timber piles. In moist or boggy soils, where not oft erough to cause the sand to work into the earth, sand piling may be employed. Holes 6 feet deep and 6 and 8 inches in diameter are bored in the bottom of the foundation trench and filled with damp sand, well rammed. This distributes the pressure of the load horizontally as well as vertically, while timber piles distribute it vertically only. It is therefore not necessry to penetrate to solid bottom, the sand pile having a broad bearing surface. In the case of the timber pile, all the pressure is transferred to the bottom of the piling, strength from the friction of its lateral surface against the oil. Piles need usually to be driven to solid bottom, and are from 20 to 40 feet in length, or even longer. They are driven in rows by the use of a "pile-driver," a heavy iron weight in vertical guides, dropleng on the top of the pile. Piles completely buried in sand or water may last for centuries, of which evidence exists in the cities of Venice and Amsterdam, which are largely built upon them. Their chief danger of decay arises from exposure to air; and piles in tidal water should be cut off below the low water mark. Disk piles, with broad flanges

an area much wider than that of the walls or footings, and also the prevention of one part of the building settling more than another. The platforms are of concrete, of masonry, of timber, and of iron and concrete. The concrete platform is made by mingling broken or crushed stone or coarse gravel with the proper proportion of hydraulic cement mixed with sand and water, the proportion varying to suit each individual case. The bottom of the excavation, being brought to a level, is covered with the concrete in layers of 9 to 18 inches thick, each layer being thoroughly rammed and allowed to set before the next one is laid. Such platforms are laid under structures of considerable weight and limited area, such as towers, chimneys, and bridge piers, or large buildings having many piers; also in the case of buildings to be erected on wet sands or soils, and where it is necessary to exclude water from the cellar.—Masonry Platforms. Masonry can be used for platform purposes only by the use of inverted arches. In the case of a lieavy building erected on isolated piers instead of continuous walls, a series of inverted arches. In the case of a lieavy building erected on isolated piers instead of continuous walls, a series of inverted arches. Unrued beneath the feet of the several piers, practically bind them into one, while if barred vaults be built between each line of renes, the loads are distributed over the whole area of the building.—Timber Platforms. What is known as a grillage, composed of squared or round timbers, is often employed. If in a constantly wet soil, or completely buried in sand, such a platform proposed in the sundant of the fundation walls, the platform needs to be completely buried. Timber platforms have been frequently used for foundations both for bridge piers and for tall buildings. The New Orleans custom-house, built upon a very soft and treacherous soil of sandy clay asturated with water, in which piling was not to be trusted, stands upon a timber grillage of logs 12 inches in diameter, laid clos an area much wider than that of the walls or footings, the new system a platform of timber or concrete is first formed over an area sufficient to reduce the pressure to between 3,000 and 4,000 lis. per sq. foot. On the concrete is laid a layer of steel rails, placed close together, and one or two more upon this, each at right angles to the one below. On top is a layer of 15- or 20-linch I-beams, which sustains the iron or masonry columns or walls. The whole is covered with concrete, and the ends of the beams are protected by a heavy plastering of company. SURAQUEOUS FOUNDATIONS.—Foundations for service

or wais. The whole is covered with concrete, and the ends of the beams are protected by a heavy plastering of cement.

Suraqueous Foundations.—Foundations for service under water are made by the use of three expedients—the confer-dam, the open crib, and the pueumatic caiseson. The cofer-dam is a temporary water-tight wall built around the space to be excavated, and enabling the latter to be kept dry by pumping while the foundations are being made. Two parallel rows of sheet piling are sunk and the space between filled with clay, or mixed clay and sand, thoroughly rammed. Rows of piling are also driven, with string pieces to which the sheet piles are spiked. The open crib or caiseon is used in water too deep for the use of the cofer-dam. It is a lox-like structure of timber or iron, open, except for a partial flooring or shelf, on which is laid a load sefficient to sink it, while it is made high enough for its top to stand above the water. The bottom of the area is then dredged out, the crib sinking, and new sections being added to it so as to keep its top above the water level. A cofer-dam is thus formed from which the water may be pumped, and the foundations built within it. Or, if it is sunk to a firm bottom, it may be filled with concrete and the piers built upon this material. The pneumatic caiseon is the device usually employed in water of considerable depth. In this the principle of the diving bell is used. An air-tight crib or caisson, in the form of an inverted box, with a cutting-edge at the bottom is floated out to the site of operation, and sunk by weights. The caisson, being filled with air under pressure, serves as a working chamber by the add of "air locks," or intermediate spaces between an outer chamber filled with air at atmospheric pressure, and the working chamber filled with outer door, which is then closed, and the lower door is opened, admitting the compressed air. These permit entraces and exit without change of pressure in the working chamber. The workmen enter the alr lock by its outer

tioned, and structures of great size and weight can now be erected in soils or in under-water situations where such erections would have been quite impossible under the methods of the past ages.

Foun' fain, Intermit' tent. (Physics.) The name given to those fountains the flow of which ceases and recommences at regular intervals. Near the lake of Como there is a fountain which, three times a day, increases and diminishes; Pliny the Younger makes mention of it in the 30th Epistle of his 4th Book. In Savoy, on the edge of the Lake of Bourget, exists the Foundais of Wonders, one which flows, stops, and reflows twice in an hour; when the flow is about to begin a bubbling noise is heard, and then the water excapes on three sides, forming jets, the height of which increases at first, and then successively diminishes. The water, after springing for seven or eight minutes, stops for the space of two. It would be easy to multiply similar examples. In order to explain such phenomena, let us suppose that a spring is reached by a pipe, or by any natural passage (o) to a reservoir (M), whence it can escape only by a passage (a, b, c) forming a siphon. The water accumulates in the reservoir until the level of the water reaches the curvature of the siphon; the fountain then commences to flow by the orifice (c), but if the siphon be allowed to let more water escape at



Fig. 2898.—THEORY OF AN INTERMITTENT FOUNTAIN.

one time than is received from the spring by the reservoir, the latter becomes exhausted, and the flow ceases until the level of the curvature is again reached. The intermittent fountain used in scientific laboratories is

altogether different from the natural ob-jects of the same name; it was invented different name; it was invented by Sturmius, and con-sists of a vessel (A), closed by a glass stop-ple, and cemested upon a piece of brass provided with three upon a piece of brass provided with three provided with three interal spouts, D D'. The whole is supported by a tube B, which opens into the interior part of the vessel A. This tube is terminated at its other extremity by a basil, and sustained by a tripod. The whole apparatus rests upon a basin, C, percolated by a little hole in its center. The vessel A being filled with water as far as the level of the pipe B, the efflux takes place by the spouts D D'; by the spouts D D'; the falling water becomes accumulated in the basin C, and is replaced by air brought by the tube B; but, if the little orifice bored in the basin be insufficient for its exhaustion, the water by increasing obstructs the inferior



Fig. 2899.-STURMIUS

obstructs the interior Fig. 2892.—STURRIUS
part of the pipe B,
and, as the air can no
longer enter in A, the efflux ceases until the extremity
of the pipe B is allowed to become disengaged from the
water, and the air again permitted to reënter.
Fouquet (fooks), Nicolas Marquis De Belle-Isle,
a celebrated French finance minister, born in Paris, 1616,
hearment of the Parliament of a celebrated French finance minister, born in Paris, 1615, became in 1650 Attorney-General of the Parliament of Paris, and two years afterward superintendent of the finances of the kingdom, in which capacity he dissipated millions of francs on himself and his favorites and pensioners—needy literary men, of whom Pelisson may be regarded as the type. Falling into diagrace with Louis XIV., on account of his prodigality and sumptuous mode of life, vieing in splendor with that of the court, F. was arrested in 1661 (at an instance, as has been supposed, of his rival Colbert); and, after a trial which lasted three years, was condemned to imprisonment for life. F's best trait was his patronage of letters, and constant fidelity to his friends and parasites. Died in 1680.

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Feurth Entate'. A designation originally applied, in England, to the lowest and unrepresented classes of society; the "Third Estate" being the commons, which came after nobility and royalty, constituting the second and first, respectively. Now humorously applied, in this country, to the newspaper fraternity, in recognition of its peculiar influence on public affairs.

Fow'lee, Charles Henra, D.D., Ll.D.; a clergyman of the M. E. Church, born in Canada, in 1837; graduated at Genesee College, Lima, N. Y. (1859) and at Garrett Biblical Institute, Evanston, Ill. (1861). The same year he was admitted into Rock River Conference and engaged in pastoral work in Chicago till 1872, when he was elected to the presidency of Northwestern University, at Evanston. In 1876 he became editor of the Christics Advocate, New York; from 1880 to 1884 he held the position of corresponding secretary of the Missionary Society of the M. E. Church, and in 1884 he was ordained a bishop. The degree of D.D. was conferred upon him by Northwestern University and that of Ll.D. by Syracuse University.

Fowler, Lorenzo Niles, phrenologist, born in Steuben co., N. Y., on June 23, 1811; educated at Amherst College, and became associated (1835) with his brother, Orson S. F., in opening an office in New York for the development of the new science of phrenology, publishing (1836) a book entitled Phrenology, publishing (1836) a book entitled Phrenology, published first in Philadelphia, then in New York, retaining the management until 1863. In that year Lorenzo F. removed to London, Eng. where he resided until August, 1896, when he returned to the U. 8, and died in New York on Sept. 2 of the same year.

the same year.

Fowler, Osson Squirs, phrenologist; born in Steuben co., N. Y., Oct. 11, 1809; graduated from Amherst College; as a writer, editor and publisher, devoted himself to the subjects of phrenology, self-culture, social reform, &c., and attained a wide reputation as a lecturer. Died Aug. 18, 1887.

Aug. 18, 1887.

Powler, PHILEMON H., D.D., an eminent clergyman of the Presbyterian Church, was born in New York in 1804 and died in Utica, N. Y., in December, 1879.

Powler, Sanuei, M.D., born near Newburg, N. Y., Oct. 30, 1799; studied medicine at Penn Medical College, Philadolphia; began practice at Hamburg, N. J. was a member of the 24th and succeeding Congresses, being an active politician. He ranked high as an expert in mineralogy and geology; and, among other services, made known to the naturalists of Europe the iron and zinc ore, franklinite. He was an honorary member of many learned societies, and his scientific writings were profuse and valuable. Died Feb. 20, 1844.

Fowl'er, in ladiana, a post-town, cap. of Benton co., 28

made known to the naturalists of Europe the iron and sinc ore, prossibilitie. He was an honorary member of many learned societies, and his scientific writings were profuse and valuable. Died Feb. 20, 1844.

Fowl'er, in Indiana, a post-town, cap. of Benton co., 28 m. N.W. of Lafayette, on C., C., C. & St. L. R.R.; has manufactures of farming implements, tiles and furniture. Pop. (1890) 1,285.

Fowl'er's Bolk'tlom. (Pharm.) An aqueous solution of potassium arsenite, containing one per ceut. of white arsenic; so called from an English physician, named Fowler, who first brought it into use. It is poisonous, but is a powerful tonic, and is used for neuralis, malarial fever, &c. Dose, I to 5 drops, well diluted. It should be taken only just after eating.

Fowl'ing, a. The act or practice of pursuing or killing wild fowl for food or game. This has been followed in all parts of the world since the time when man was given dominion over the fowls of the air. By some it is made a means of subsistence, while by others it is only pursued as a recreation. It is often attended with great toil and danger, as in the case of sea-birds, whose breeding places are the shelves and ledges of lafty precipices. Various methods are employed for capturing birds, according to their habits. Small birds intended for the table are often taken in nets. Bird lime (g. v.) is used also in the capture of them, especially in hot and dry weather when they congregate where they can get water. Traps, or suares, of different kinds are also employed. One of the most common is the tread or hair with a noose in which the bird is caught by the head or the feet. The modern sportaman generally employs the rife and shoots the bird either when on the wing or after it has alighted. Decoys are used, especially with wild ducks, to lead them within shot. Numerous kinds of ducks, geese and plover are sought after, ravealed by the census of 1890, that the annual value of the poultry product at that time was \$280,000,000 exceeding that of any one other agricultural

bearing upon this subject, as given herein, are based upon the best available authority. Those breeds classed as American are the result of crossing various breeds of domestic with imported stock. The Plymouth Rocks are among the best for general purposes, being superior layers and shapely for market. The Wyandottes are of more recent origin, alightly lighter, but scarcely inferior to the Plymouth Rocks in other respects. The Dominiques rank with the Wyandottes, and are the oldest American breed. It is believed that the Plymouth Rocks originated in a cross between these and a larger breed. Jusus and Jersey Blues complete the list of Americans; these have some physical peculiarities, but in a general way rank with the Plymouth Rocks. The Cochine are descendants of the old Shanghae, or Brakma-Pootra fowls (which came originally from Cochin-China), whose stilted legs and long necks have been reduced by intelligent crossing. The buff varieties are largely used for crossing with inferior stock to secure weight and firmness of flesh. These fowls are only moderately good layers, but they sit persistently and the hear marks model necks. are largely used for crossing with interior stock to secure weight and firmness of fiesh. These fowls are only moderately good layers, but they sit persistently and the hens make model mothers. Light Brahmas, the largest of all breeds, are, as they exist here to-day, practically an American variety, being the result of careful and long-continued breeding from the old Brahma-Pootra stock. They are the best layers among the large varieties, and make good "broilers" at 8 to 10 weeks. After the chicks are 12 weeks old they grow rapidly and become bony; therefore are not desirable for market from the time they are alout 3 months old until fully matured. The pencilled Hamburgs are supposed to have originated in Holland; the spangled varieties are of English nativity, and were once known as Lanconshire Mooneys and Yorkshire Pheasent Finels. The Andalusians, as the name indicates, came from the province of Andalusian, in Spain. Silkies, sometimes The Andalusians, as the name indicates, came from the province of Andalusia, in Spain. Silkies, sometimes called Negro Fools, are from India. Printed towls are found in all countries. The Legisorus are natives of Italy; but the white and brown varieties have been so greatly improved in this country as to be fairly classed as Americans. The name of the Polish breed probably comes from the word "pull," meaning "head;" the skull has a prominent bony cyst, above the orbits, not found in the uncrested breeds. The eggs and fowls of this breed are rather small; they are chiefly bred for fancy purposes, and had their origin in Holland. The Sullas fowls come from Constantinople. This breed is very rare, and it is difficult to secure pure-bred stock this breed are rather small; they are chiefly bred for fancy purposes, and had their origin in Holland. The Sulzas fewls come from Constantinople. This breed is very rare, and it is difficult to secure pure-bred stock from its native place, as it is there considered a sacred bird. The Sulzans are extremely showy, pure white, with a large crest and beard, and five toes. Their legs are feathered all around, as are all the toes. The sulzans were first owned and bred in this country by Mr. George O. Brown, of Baltimore. The Maleys are from India. The origin of the Game fewls is involved in some doubt, though England claims to be its native land. Contrary to a very common impression, these varieties are not largely raised for fightling, but almost wholly for practical purposes. They are hardy, and possess great muscular development about the breast; and are therefore valuable to cross with common stock or thoroughbred varieties. The Indian Game, when crossed with stocky breeds, produces excellent broilers at an early age. Sobright bankams were originated by Sir John Sebright, of England, about the year 1800. after a long period of patient breeding. The breed known as the Rampless are without tails, and the cauda appendage irreverently called "the parson's nose" is also lacking. Aldrovandus mentioned this breed two centuries ago. There is a breed in England, called Scotch Gross, that recembles our Plymouth Rocks in Jumage, but has pinkish-white instead of yellow legs. Guissen Jones are from the Cape Verde Islands and Jamaica, where they abound in a wild state.—Ducks. The Aglessur originated in Bucklughamshire, England. The Rosen, of French origin, is almost identical in plumage with the wild Mailard. The Capega breed originated on Cayuga Lake, New York.

Following are the standard breeds of domestic poultry in the United States, with the varieties of each breed, as recognized by the American Poultry Association:

[SECTION II.]

### AMERICAN.

PLYMOUTH ROCK: Varieties—BARRED; WHITE; BUFF; BARRED, PRA COMB. Plumage of the Barred varieties shows parallel bars of bluish-black and white; all have single combs except the Barred with pea comb; all have yellow legs.

WYANDOTTE: Varieties-SILVER; GOLDEN; WHITE; BUFF; BLACK.

All have rose combs and yellow legs, except the Black, which has black or greenish-black legs. Plumage of Silver is white in center of feather, laced with black; of the Golden, golden center laced with black.

JAVA: Varieties-Black; Mottled; White. All have single combs.

DOMINIQUE: Has rose comb.

JERSEY BLUE: Has single comb.

## ASIATIC.

BRAHMA: Varieties—Light; Dark.
Both have pea comb. The Light variety has white plumage, except the tail, which is black, slightly laced or edged with white; necks penciled with black; male and female marked alike. The Dark variety (male) has solid black breast and tail; neck is silvery-white has been black breast and tail; neck is silvery-white; and silvery-white feathers striped with black; the legs and outer and middle toes are well feathered.

The hens are beautifully marked, the elivery-gray color being distinctly pencilled with darker stripes.

COCHIN: Varieties—Parraider: White; Black; Buff. All have pea combs. The male Partridge has black breast and tail; neck, bright orange-red, with black pointed and striped centers in feathers; back, dark red-brown; saddle, marked very much like neck; wing-bows rich marcon-red. The hens are beautifully peacified, reddish-brown ground marked with darker shades; necks similar to males. All Cochins must be heavily feathered on legs and on middle and outer toes.

LANGSHAN: Varieties—Black; White.

Both have single comb; legs feathered to a medium degree, and the outer toes feathered to their extremities.

MEDITERRANEAN: Varieties—Brown, Single Come; Brown, Rose Come; White, Single Come; White, Bose Come; Blace, Single Come; Dominique, Single Come; Silver Duck-wing, Single Come.

MINORCA: Varieties-BLACK; WHITE. Both have single comb.

ANDALUSIAN: Variety-Blue, Single Comb.

SPANISH: Variety - WHITE-FACED BLACK, SINGLE COMB.

POLISH: Varieties—White Crested Black; Goldes; Silver; White; Buff Laced; Branded, Goldes; Branded, Silver; Branded, White.

HAMBURG: Varieties—Black; White; Golden Span-GLED; SILVER SPANGLED; GOLD PENCILLED; SILVER PENCILLED.

RED CAP: These have immense rose combs, whence their name

CAMPINE: Varieties-SILVER; GOLDEN.

Both have single combs.

### FRENCH.

HOUDAN: Black and white mottled plumage; five toes on each foot.

CRÈVECCEUR: Variety-Black.

LA FLECHE: Variety—BLACK.
All have combe shaped like the letter V.

## ENGLISH.

DORKING: Varieties—WHITE; SILVER; COLORED.
The White variety has a rose comb, the others a single comb; five toes on each foot.

GAME: Varieties—Black-Breasted Red; Brown Red; Golden Duck-wine; Silver Duck-wine; Red Ptle; White; Black; Birchen. The above list comprises the varieties of the Standard

Games.

GAME BANTAM: Varieties-Same as the Standard

INDIAN GAME: Variety-Cornish.

MALAY: Variety-Black-Breasted Red.

SEBRIGHT BANTAM: Varieties-Golden; SILVER. Both have a ruse comb.

ROSE-COMB BANTAMS: Varieties-White; Black. BOOTED BANTAM: Variety-WHITE, with single

COCHIN BANTAM: Varieties — BUFF; PARTRIDGE; WHITE; BLACK. These are, in all respects, the large Cochins in minis-

JAPANESE BANTAM: Varieties - BLACK-TAILED:

WHITE; BLACK.
All have single combs.

POLISH BANTAM: Variety-WRITE; has white crest.

## MISCELLANEOUS.

RUMPLESS: Various colors.

RUSSIAN: BLACK.

SUMATRA: BLACK, with immense long tails.

SILKIES: White, with webless, soft, fleecy plumage; five-toed feet, feathered; legs also feathered; head and skin dark purple.

SULTAN: WHITE; heavily creeted, muffled and bearded; feathers on legs and toe

FRIZZLE: Various colors.

In addition to the foregoing, there are bred in the United States the following that are classed as purbred fowls, viz.: SHERWOOD (white), Ancoma (mottled), WHITE WONDERS, and DARK BRAHMA BANTAMS.

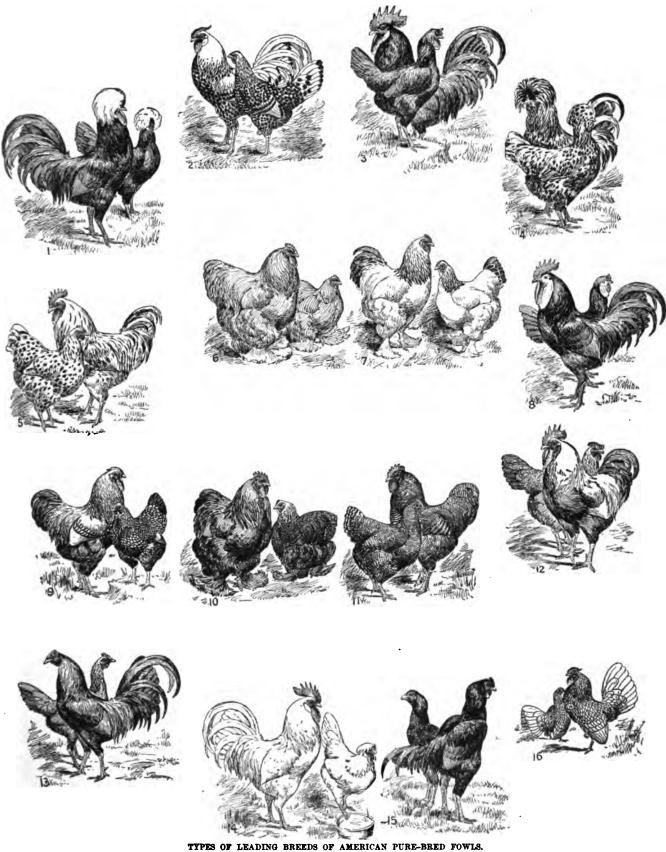
TURKETS.—The varieties are as follows: Broxes, NARRAGANSETT, BUFF, SLATE, WHITE and BLACK. All are considered of American origin. The Bronze variety was produced by crossing the domestic with the wild turkey.

DUCKS.—The varieties embrace the Perin, white in color, originating in China; the Aylebbury, a white English breed; the ROUEN, a parti-colored French variety; the black CAYUGA; the colored and the white MUSCOYY; the gray and the white CALL; the CRESTED WHITE; and the EAST INDIAN, black.

GERSE.—The gray breeds include the Toulous (French) and the Wild (Canada); the EGYPTIAN is a colored variety; the German breed, EMBLER, is white; the AFRICAN is gray; and of the CHIMES there are two varieties, the brown and the white.

GUINEA FOWIS.—There are two kinds—the well-known pearl, and the white.

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- WHITE-CRESTED BLACK POLISE.
   SILVER-SPANGLED HAMBURG.
   BLACK MINORCA.
   HOUDAN.

- 5. MOTTLED JAVA.
  6. BUFF COCHIN.
  7. LIGHT BRAHMA.
  8. WHITE-FACED BLACK SPANISH.
- 9. SILVER-LACED WYANDOTTE, 10. PARTRIDGE COCHIN. 11. BAHRED PLYMOUTH ROCK. 12. DORKING.

PIT GAME.
 WHITE LEGHORN.
 Indian Game.
 Silver Sebright Bantam.

STANDARD WEIGHTS.—The standard weights for fowls and chicks for the show-roun, as per the rules of the American Poultry Association (1897), are shown by the following table:

#### CHICKENS

Brood.	Cock.	Hon.	Cock'l.	Pullet.
	ibs.	lbs.	lbe.	lbs.
PLYMOUTH ROCK	91%	734	8	61%
WYANDOTTE	81/2	67	71%	51/2
JAVA	91/2	71/2	8	61/2
AMERICAN DOMINIQUE	81/2	61/2	71/2	51/2
JERSEY BLUE	10	8	.7	5
LIGHT BRAHMA	13	91/3 81/3	10	8
DARK BRAHMA	11	81/8	9	7
Cochin-		01.	ا ا	_
Buff	11	81/3	9	7
Partridge	11	873	9	7 7 7
White	101/2	273	9	4
COCHIN, BLACK	1072	7'9	8	6
LANGSHAN	8		61/4	61/
MINORCA	71/2	61/2	6	51/2
RED CAP	72	6	ĕ	5
CRÈVECEUR	ė	7	1 7	l a
La Fliche	81/	73%	7%	61/2
Dorking-	6/8	./3	./3	°/3
White	71/2	6	61/6	5
Silver-Gray	8/3	61/2	7 2	51%
Colored	9	7	ġ	e´ •
CORNISE INDIAN GAME	9	Ġ	734	51/4
MALAY	8	7	652	4'
RUSSIAN.	81/4	61/2	71%	51/6
				'
GAME BANTAMS	ozs. 22	0#s. 20	20	20
BLACK-BREASTED RED MA-		20	1 20	۳ ا
LAY GAME BANTAMS	26	24	24	22
BANTAMS—				
Sebright	26	22	22	20
Bose Comb	26	22	22	20
Booted White	26	22	22	20
Buff Cochin	28	24	24	22
Partridge Cochin	30	26	26	24
White Cochin	30	26	26	24
Black Cochin	30	26	26	24
Black-tailed Japanese	26	22	22	20
White Japanese	26	22	22	20
Disch Issues	26	22	22	l 20
Black Japanese White-crested Pollsh	26	22	22	20

### TURKEYS.

Variety.	Cock.	Hen.	Cock'l.	Pullet
	lbs.	lba.	lbs.	lbs.
BRONZE	35	20	24	15
NARRAGANSETT	32	22	22	14
Burr	27	18	18	12
SLATE	27	18	18	12
WHITE	26	16	16	10
BLACK	27	18	18	12

## DUCKS.

Variety.	Adult	Toung	Old	Toung	
	Drake.	Drake.	Duck.	Duck.	
PEKIN	23a. 8 9 9 8 10	20s. 7 8 8 7 8	the. 7 8 8 7 8	1be. 6 7 7 6	

## GEESE

Variety.	Old Gander.	Young Gander.	Old Gooss.	Toung Goose.
	lbs.	lbs.	lbs.	lbs.
TOULDUBE	20	18	20	15
EMBDEN	20	18	18	16
AFRICA	20	16	18	14
CHINA	14	10	12	8
WILD	16	1 12	14	10
EGYPTIAN	15	12	12	9

TECHNICAL TERMS.—We give below a glossary of technical terms referring to domestic fowls and their breeding; also a cut showing the points of a fowl as considered by the judges at a poultry show under the roles of the American Poultry Association. For much of this information we acknowledge our indebtedness to Mr. George O. Brown, former president of that Association.

bar'ring, marks or stripes across the feathers at right angles, or nearly so, to its length. beard, a bunch of feathers under the throat of some breeds of chickens, such as Houdan and Polish. breed, any race of fewls having distinctive charac-

vertex, any race of lows naving distinctive characteristics in common. Breed is a breader term than variety, and may include several varieties; for example, the Plymouth Rock has Single-combed Barred, Peacombed Barred, and White, as varieties of that breed, brood, the family of chicks belonging to a single methor.

empe, the feathers under and at the base of the hackle, shaped like a cape. The term is most frequently applied to the Light Brahma, whose cape is composed of black and white feathers.

car'riage, the attitude or "style" of a ldrd.

carum'culated, covered with small, fleshy protections as an the head and pack of a turk average.

(SECTION II.)

tuberances, as on the head and neck of a turkey-cock.

tulerances, as on the head and neck of a turkey-cock.

chick, a newly hatched fowl.

chicken, a term indefinitely applied to any age
under one year old.

clutch, a term applied both to the hatch of eggs
at upon by a fowl, and to the brood of chickens hatched therefrom.

therefrom.

cock, a male fowl over one year old.
cock/erel, a male fowl under one year old.
comb, the fiesh proturberance growing on the top
of a fowl's head. The four chief varieties of comb are
single, rose, pea, and leaf; all others being modifications
of and properly classed with them.

condition, the state of a fowl as regards health and beauty of plumage.

crest, a tuft of feathers on the head; of the same

errow, a turt of teatners on the mean; of the same significance as top-knot.
erop, the receptacle in which a fowl's food is stored before passing into the gizzard for digestion.
emsh'don, the mass of feathers over the rump of a hen, covering the tail; chiefly developed into Cochina.

hen, covering the tall; chiefly developed into Cochina.
dub'b'bing, cutting off the comb, wattles and earlobes, so as to leave the head smooth and clean.
duck'-foot, the carrying of the hinder toe forward.
ear'-lobes, the folds of bare skin hanging just below the ears—by many called deaf-cars. They vary in color, being red, white, blue and cream-colored.
face, the bare skin around the eye.
flights, the primary feathers of the wing, used in flying, but tucked under the wings out of sight when at rest.

finff, soft, downy feathers about the thighs and cov ering the posterior part of the bird—chiefly developed in Asiatics.



Fig. 2900.—POINTS OF A FOWL.

omb: 9, face; 8, watter; 4, ear-lober; 5, hackles; 6, breast, back; 8, saddle: 9, saddle-feathers; 10, sickles; 11, tall-coverts; 12, main tail-feathers; 13, wing-bow; 14, wing-coverts, forming wing-bar; 15, secondaries; wing-bay; 16, primaries or flight-feathers; wing-bay; 17, point of breast bone; 18, thighs; 19, hooks; 90, shanks or legs; 21, spur; 32, toos or claws.

fur'mished: when a cockerel has obtained his full

fur'mished: when a cockerel has obtained his full tail, comb, hackles, &c., he is said to be "furnished." gills, the same as wattles, which see. hack'les, the neck plumage of both sexes. hack'les, the peculiar, long, narrow feathers on the neck of fowls. hem'ny or hem'-feathered, the plumage of a cock resembling that of a hen from the absence of hackles and sickle-feathers, and in plumage generally. heek, the joint between the thigh and shank. keel, the breast-bone, so called from its resemblance to the keel of a boat.

Reel, the breast-bone, so called from its resemblance to the keel of a boat.

Remock'-k meed, a term used to express an inward turning of the bocks by which they are brought near together while the legs extend outward and are well spread at the feet.

apread at the feet.

leaf-comb, the two-pronged, V-shaped comb, such as is seen in crested breeds, so called from a fancied resemblance to the open leaves of a book.

leg, in a living foul, this is the scaly part usually denominated the shauk; in a dressed fowl it refers to the interleave.

the joint above.

leg'-feathers, feathers growing upon the outer

mon'sy, having confused or indistinct marking in the plumage.

nu b'-comb, an irregular pea-comb, but lacking in the true triple character, the longitudinal depressions or channels being grown up. It approaches in char-acter to a rose-comb, but is properly classed as a pea-comb, as it is produced only by pea-combed varieties.

pee'-comb, a triple comb, resembling three small single combs joined together at base and rear, lower and narrower at frout and rear than center, and distinctly divided, the largest and highest in the middle, each part slightly and evenly serrated.

pem'cilling, small markings or stripes over a feather. These may run straight across, when they are frequently called bors, or follow the outline of the feather, taking a crescent form.

poult, a young turkey.

pri'maries, the flight-feathers of the wings, hidden when the wing is closed, being tucked under the visible wing, composed of the secondary feathers. Usually the primaries contain the deepest color belonging to the fowl, except the tail, and great importance is attached to their color by breeders.

pro'file, a direct side view or illustration of a fowl.

pul'let, a female iout under one year old.

rose'-comb, a low, thick, solid comb, the upper surface of which is usually corrugated or covered with small points. It usually terminates in a well-developed spike, which may turn upward as in the Hamburgs, remain nearly level as in the Rose-comb Leghorus, or turn downward, as in the Wyandottes. In some varieties the spike is but slightly developed.

roose'-c, a term for cock or cocketed.

sad'dle, the posterior part of the back, reaching to the tail in a cock, and answering to the cushion in a hem—sushion, however, being restricted to a very considerable development, as in Cochina, while saddle may be applied to any breed.

sec'ondarles, the quill-feathers of the wings, which are visible when the wing is folded.

self-col'or, a uniform that over the feather, or a uniform hue to the plumage, in the latter sense being applied to all solid colored varieties, such as white, black, and buff.

shaft, the stem or quill part of a feather.

shamk, the lower and eachy joint of the leg.

black, and buff.

shaft, the stem or quill part of a feather.

shamk, the lower and scaly joint of the leg.

sick'les, the long, curved feathers of a cock's tall; properly applied only to the top pair, but sometimes used for one or two pairs beside.

single comb, an upright comb, varying in size and depth of serration, rising from the beak and generally extending back of the head for some distance, and consisting of a single, thin, fleshy mass.

spans'ling, the marking produced by a large spot or splash on each feather, differing from that of the ground color.

spur, the sharp defensive weapon of the cock. grow-

spur, the sharp defensive weapon of the cock, growing from the inner side of the shank.

squirel-tabled, the tail projecting over the back in front of a perpendicular line drawn from the

OBCK IN FORTO T A perpendicular line drawn from the roots of the tail.

stag, a term used for a young cock; chiefly employed by Game fanciers.

sta'tion, an ideal standard for Games, embedied in

station, an ideal standard for Gamea, embedded in style and symmetry.

straim, a race of fowls that has been carefully bred by one breeder, or his successors, for a number of years, and has acquired an individual character of its own.

surrface-color, the color of the plumage or feather which lies upon the surface of a fowl when in a normal position and condition.

symmetry, perfection of proportion; harmony of all the perts of a fowl, taken as a whole, and must be typical of the variety it represents.

tall-coverfs, the soft, glossy, curved feathers at the sides of the lower part of the tail, usually of the same color as the tail itself.

tall-feathers, the straight and stiff feathers of the tail only; the top pair are sometimes slightly curved, but they are, generally, nearly if not quite straight, and are contained inside the sickles and tail-coverts.

thighs, the joints above the shanks, the same as

are contained inside the sickles and tail-coverts.
thighs, the joints above the shanks, the same as
the drum-sticks in dressed fewls.
top'k not, the same as Carse.
tri'o, a cock or cockerel and two hens or pullets.
under-color, the color of the plumage not
exposed when the fewl is in a normal condition and
position, and seen when the surface has been lifted.
It is manifested chiefly in the down seen about the roots
of the fewthers.

of the feathers. wari'ety, a term used to denominate fowls possessing common characteristics, less wide in its application

ing common characteristics, less wide in its application than breed (g. v.).

veme'tiamed, lapping over, like the Venetian blinds used in houses. This term is frequently applied to the lapping of the tail feathers.

vul'ture-hock, stiff, projecting feathers at the hock joint. The feathers must be both-stiff and projecting to be thus truly called and condemned.

was'tles, the red, pendulous of the base of the beak, chiefly developed in males.

web: the web of a feather is the flat or plume portion; of the feet, the flat skin between the toes; of the wings, the triangular skin seen when the wings are extended. extended.

ing'-bar, a line of dark color across the middle

wing'-bar, a line of dark color across the middle of the wing, caused by the color or marking of the feathers known as the lower wing coverts. wing'-bary, the triangular section of the wing, below the wing-bar, formed by the exposed portion of the secondaries when the wing is folded. Used chiefly in reference to Gause fowis rence to Game fowls.

wing'-bow, the upper or shoulder part of the wing wing'-butts, the end of the primaries; also called

wing points.

wing -coverts, the broad feathers covering the roots of the secondary quills.

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wing'-fronts, the front edge of the wing at the shoulder. This section of the wing is sometimes erroneously called seing-buts; but, to avoid confusion, the latter term should be applied only to the ends of the

Printings.

Pox'fail, s. The tail of a fox.

(Bot.) The name of several kinds of grass, so called from the shape of the fruit or flower-lead.

(Motall.) The cinder obtained in the last stage of the charcoal-firing process—a more or less cylindrical piece, hollow in the center.

hollow in the center.

Fox-ter' Fier, s. A small, short-coated, parti-colored dog of the terrier kind, formerly used to unearth foxes.

Frack'ville, in Fenseylcasio, a post-borough of Schuylkill co., 12 m. N. of Pottsville, on Penna and P. & R. R.R. Coal is extensively mined in the vicinity. Pop. (1890) 2,520.

Fram'cis, John M., journalist and diplomat; born in Prattaburg, Steuben co., N. Y., March b, 1823; educated in the public schools, subsequently serving as apprentice in the printing business: edited newspapers in Palmyra, Rochester and Troy, N. Y.; was minister to Greece, under President Grant, to Portugal (1882), and to Austria-Hungary (1894-85). For several years before his death was chief owner and editor of the Troy (N. Y.) Times. Died June 18, 1897.

Fram'cis, Sir Phille, an eminent English statesman

Times. Died June 18, 1897.

Fram'cis, Sir Philar, an eminent English statesman and publicist, born in 1740; became a member of the Supreme Council of Bengal, and the leading opponent of the measures of the Governor-General, Warren Hassings. In 1785 he took a prominent part in the impeachment and trial of the latter, and was a zealous advocate of the abolition of slavery. Sir Philip is generally accredited with the authorship of the famous Letters of Jassics, and from the evidence which has been advanced in support of his claims to that honor, little doubt remains as to his having the facile and fearless pen which played so dominant a part in the political affairs of England during the closing half of the last century. Died in 1818.

in support of his claims to that honor, little doubt remains as to his having the facile and fearless pen which played so dominant a part in the political affairs of England during the closing half of the last century. Died in 1818.

Frang Pann's. ". [Marquis Frangipan's, the inventor.] A perfume derived from, or in imitation of, the flowers red jamin (Plessiever resolve), a West Indian tree.

Frank'ing Priv'lleges. (U.S. Logis.) The right of free carriage of letters or packages through the mails. Originally, only official communications were carried by the postal service, but subsequently, when private matter was permitted to be carried at a charge for transmission, the free use of the mails by government officers and others became regarded as a privilege. This right was claimed by the British House of Commons in 1660, but was altolished in 1839. In the U.S., the F.P. was given to soldiers in 1776. In subsequent years various changes were made in the use of this privilege by persons in public service and others, and in 1846 it was limited to the President, Vice-President, members of Congress, the third assistant Postmaster-General and postnasters, other officials being required to pay postage from their contingent funds. Afterward an appropriation was made for this purpose, and the free exchange of newspapers, which had formerly existed, was reestablished in 1851. In 1864 another act was passed modifying the preceding law; and in 1873, as it was found that the privilege given members of Congress of sending documents and other matter free through the mails, had been greatly abused, the F.P. was alsolished, the new law declaring that all official correspondence should be charged with postage at the legal rates. A special appropriation was made for the purchase of stamps by the executive, heavis of departments, secretary of the Senate, and the clerk and sergeant-at-arms of the House. In 1875 the P.P. was restored to members of Congress for public documents then printed or ordered, and for seeds from and reports o

engineering works, and has been a prominent figure in military circles. Was U. S. Commissioner General at the Paris Exposition of 1889, and was made a grand officer of the Legion of Honor.

ramklin, in Nobraska, a S. co.; area, 576 sq. m. It is

intersected by the Republican river. Surface, nearly level; extensive prairies but little timber. Soil, fertile.

level; extensive prairies out titue inner: Cop. Bloomington. Pop. (1890) 7,693.

A post-village of Frauklin co., 5 m. E. of Bloomington, on C., B. & Q. R.R.; has large flour mills, several grain elevators, creamery and woollen factory. Pop. (1890)

556.
Franklim, in Tezas, a N. E. co.; crea, 300 sq. m. Bounded on the N. by the Sulphur Fork of Red river and intersected by White Oak Bayou. Surface, undulating; soil, fertile. Products, cotton, corn, fruits, pork, cattle. Cap. Mount Vernon. Pop. (1890) 6,481.
Franklim, in Washington, a S.E. co.; area, 1,244 sq. m; is intersected by Snake river. Cap. Pasco. Pop. (1897) about 1,000.

about 1,000.

A post-town of King co., on Columbia & Puget Sound R. R. Pop. (1890) 647.

Frame, Robert, composer; born at Halle, June 28, 1815; studied under Schnieder at Dessau. His songs called forth the warmest praise from several of the greatest masters, including Mendelssohn and List. He

greatest masters, including Mendelssohn and Liszt. He published for single voices over \$20 songs; and his best compositions are thought to rank closely with those of Schubert and Schumann. Died in 1892.

Fraterimal Insur'ance Soci'eties. Societies founded for social and beneficial purposes are numerous in the U. S., including the Freemssons, Odd Fellows, Red Men, Druids, Knights of Pythias, and many others, the principal ones being treated in this work under their respective title headings. It is designed here to consider them solely from their beneficial aspect, their social features and secreey of organization calling for consider them solely from their beneficial aspect, their social features and secrecy of organization calling for no special treatment. Most of these societies possess a lodge organization, with ritual, special official designations, and other characteristics differing in each instance; but nearly all agree in one condition of organization—that of paying sick- and death-benefits, with more or less degree of insternal attention to sick members. As the methods employed by the strictly fraternal societies are closely similar, we need sueak here principles. bers. As the methods employed by the strictly fraternal societies are closely similar, we need speak here principally of those which are organized simply for insurance purposes, many of which lack the lodge and ritual system of organization. One method employed by these associations is that of death assessment. The purpose of these is to pay the heirs of each decreased member a fixed sum, as \$1,000, which is raised by an assessment on each member of \$1, or other specified sum. The amount paid annually by each member varies in accordance with the number of deaths. It may vary from \$1 of or each \$1.000 of insurance, or may be consideramount paid annually by each member varies in accordance with the number of deaths. It may vary from \$1 to \$10 for each \$1,000 of insurance, or may be considerably higher, the assessment rate increasing as the association grows older, unless the death ratio be kept down by a constant addition of young members. Most companies grade their assessments according to age at entrance, so that the young and vigorous shall not pay as heavily as the old; while many others, by a full assessment while the association is young, provide a reserve fund to prevent increase of assessments when it has grown old, though each company reserves the right to make such assessments as become necessary. One principal advantage of the fraternal over the business insurance societies (mutual or otherwise) is in the much lower ratio of expenses of management, office and agency expenses heing dispensed with, and the work largely performed without charge. Fraternal sick- and death-hemeft associations have existed in the U. S. since early in the 19th century, their usual "benefits" averaging about \$5 a week in case of sickness and from \$60 to \$100 in case of death. These become somewhat flourishing before the Civil War. The assessment plant did not come into existence until 1866, the first association of this kind being organized at Newark, N. J., Nov. (2th of that year, by some members of the Masonic fraternity. The plan was quickly followed by other Masonic and Odd Fellows lodges. These rapidly increased, partly lacking the lodge feature, and transacting all their business through a central office. By 1890 the total sum of insurance thus carried was about \$240,000,000. Off the central office societies may be named the Masonic Mutual Bessett Association of Consecticet, organized in their business through a contral office. By 1880 the total sum of insurance thus carried was about \$240,000,000. Of the central office societies may be mamed the Masonic Mutual Benefit Association of Connecticut, organized in 1867, and the Odd Fellows Mutual Aid Association of Connecticut, organized in 1891, each founded on the principle of death association with the Mutual Aid Association of Connecticut, organized in 1891, each founded on the principle of death association should be such associations apparently greatly preferring the social principle involved in lodge meetings and ceremonials. The Ascient Order of United Workmen, organized in 1868, though formed originally for trades-union purposes, soon became mainly a beneficial association. It is divided into subordinate and grand lodges and a supreme lodge, and was the first American society to establish a lodge system in which a stipulated sum was to be paid on the death of a member. The rapid growth of the order served to keep down its average mortality rate, which increased from 8:34 in 1879, to 984 in 1890, though considerably higher in some individual lodges. The success of the new method led to the founding of other societies on the same plan, the second in order being the Knights of Honor, founded in 1873, and which twenty years later had a membership was stationary and the death ratio rapidly increased, advancing from 11-1 in 1884 to 16-3 in 1892. Then, through a change in the method of assessment,

growth began again, with a consequent fall in the ratio. The insurance policies are for \$500, \$1.100, and \$2,000. The Knights of Pythias, Endowment Runk. organized in 1877, is conducted on the principle of graded assessments according to age at entry. Its death rations kept very constant at about 13:50. The Kopad Arcasum, founded in 1877, has had a rapid growth, and carries over \$400,000,000 insurance, the policies being for \$1,500 or \$3,000. The mortality ratio has remained low, on account of the rapid increase in membership. Its average has never been over 9. In this, as in fraternal organization in many cases, the sick and disabled may be aided by payment of their assessments by the lodges and in other ways. Other associations organized on this principle include the American Legion of Homor, founded in 1878; the Knights and Ladies of Homor, in 1878; the Equitable Aid Union, in 1879; the National Union, in 1881; the Cutholic Benevolent Legion, Catholic Mutual Benevolent Association, and Cutholic Knights of America; the Modern Woodmen of America; the Knights of America; the Modern Woodmen of America; the Knights of the Maccobees; the Independent Order of Foresters; the United Order of the Golden Cross, and numerous others. In addition to these fraternal societies, there are many business assessment companies, which in some cases confine their operations to members of a special order, as in the case of the Northeestern Massocia Aid, of Chicago, and the Knights Templur's and Massocia Life Indemsity Association, of the same city. One important statement concerning the fraternal organizations is, that none of them have ever failed, which cannot be said of the brasiness organizations; while the mutual aid and enjoy ment obtained through the lodge system have added greatly to their popularity and membership.

Freed'erfeek C'harlees, Nichotas, prince of the imperial house of Germany, eldest son of Prince Carl, 2d brother of the Emperor William L, was born on the 20th of March, 1828, and from early youth devoted himse

Army, effected his junction with his consin at the crisis of the day. Prince Frederick Charles had for many years previously ishored strenously, and with great success, to make the Prussian military system more elastic, allowing greater freedom to the officers, and relying more upon the moral means than upon the rule and method of dealing with the men. The unexpected suppleness and dash shown by the Prussians in 1866 was, in a great measure, the consequence of these reforms. The reputation acquired by the Prince in the Austro-Prussian war was heightened by his successes in the contest with France. At the close of July, 1870, he was on the Rhine frontier in command of the Second German Army, comprising the 2d, 4th, 7th, 9th, 10th

Austro-Prussian war was heightened by his successes in the contest with France. At the close of July, 1870, he was on the Rhine frontier in command of the Second German Army, comprising the 2d, 4th, 7th, 9th, 10th and 12th North German corps, estimated at 280,000 men, and 500 pieces of artilery. On Aug. 6, the Prince defeated Gen. Frussari at Speichern, and ten days later made a vigorous attack on he right of the French pasition held by Marshal Bazaine between Doncour and Viouville, driving the French troops back to Metz. The Prince then closely invested that fortress, which, after resisting a siege of 70 days, capitulated on Aug. 27th. Shortly afterward the Prince defeated Gen. Auselled de Paladines and the Army of the Loire (Nov. 28th), recaptured Orleans, Dec. 4th, and after a struggle protracted over six days he took Le Mans and compelled Gen. Chanzy to withdraw his forces northward, Jan. 13, 1871. The Prince was created a field-marshal, Oct. 28, 1870. Died June 16, 1885.

1870. Died June 16, 1885.

1870. Died June 16, 1885.

1870. The Prince was created a field-marshal, Oct. 28, 1870. The prince was created a field-marshal, Oct. 28, 1870. And ontering the army at an early age, rose to general rank. On the outbreak of the Austro-Prussian War of 1886, the Crown Prince had placed under his command three army corps, exclusive of the corps of the Guard under Prince Augustus of Würtemberg. He led his forces, composed of 125,000 men, from Silesia through the passes of the Sudetic Hills, an operation exposed to great difficulties and to considerable danger. By a series of brilliant operations the army pushed its way through the mountains, and, after fighting a series of evere actions, arrived on the field of Königgritt, July 3d, in the middle of the battle and at the proper moment, for, in so doing, the Crown Prince's reinforcements cut the heart of the Austrian position, and decided the fortunes of the day. His march from Miletin to the above able-field, and the series of victories following his entry into Bohemi

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it after a desporate struggle. Following up this important advantage, the Crown Prince attacked on the 6th the united army corps of Marshals MacMahon and Canrobert, drawn up in position at Würth. The French commander had under him a total force of 50,000 men, and the first of the 5th with an army of 130,000 men, and attacked the enemy at seven the next morning. The French line was turned at the color of the 3th with an army of 130,000 men, and attacked the enemy at seven the next morning. The French line was turned at two relates and their left and center. the 5th with an army of 130,000 men, and attacked the enemy at seven the next morning. The French line was turned at two points, and their left and center broken, notwithstanding a desperate charge of cavalry, which was ordered by MacMahon as a last resort. On the memorable day of Sedan, Sept. 1st, the troops of the rown Prince and those of his cousin, Prince Frederick Charles, were engaged against the greater part of MacMahon forces, and the Germans succeeded in crossing the Meuse, this hazardous operation being effected by



Fig. 2901.—PREDERICK WILLIAM III.

the Crown Prince with his Prussians and Würtembergers, supported by the Bavarians under Gen. von der Taun. He next advanced toward Paris, entered Versallies, Sept. 20th, commenced to throw additional troops sailes, Sept. 20th, commenced to throw additional troops round the capital, and remained near the invested city until after the conclusion of peace. On Oct. 28th, he was promoted to the rank of a field-marshal of Prussia, and on Nov. 8th was given the same high grade in the Russian army. By his wife Victoria, Princess-Royal of England, Frederick William had a family of three sons and three daughters. Upon the death of William I, his father, March 9, 1888, F. W. became King and Emperor, as Frederick William III. He died of a painful and lingering disease, June 16, 1888, and was succeeded by his son, Frederick William (born in 1859), who assumed the title William II. Frederick Prederick William Corn in 1859, who assumed the title William II.

ingering disease, June 15, 1888, and was succeeded by his son, Frederick William (born in 1859), who assumed the title William II.

Frede/mia, in Kansaa, a city, cap. of Wilson co., 32 m. S.W. of Humboldt, on Mo. Pac. and A., T. & S. Fé R. Re. Has line, fire-clay, building stone, sait springa, and excellent coal in abundance. Pop. (1865) 1,638.

Free Church of Scotland, sone, sait springa, and excellent coal in abundance. Pop. (1865) 1,638.

Free Church of Scotland, who differ from the principles of the Established Church, and who separated themselves from it at the disruption of 1843. They refuse to be called dissenters, because they contend that their principles are those of the Church of Scotland, and that it is the Established Church, and not they, that have departed from the principles of the Church as set forth in the Confession of Faith and the other standards. They are also known as Non-intrusionists, from the great principle against which they contend being the intrusion, or establishing, of a minister in a church by the patron, contrary to the wish of the people. It is a characteristic feature of Presbyterianism, especially in Scotland, that the people have a considerable voice in the affairs of the Church, and that a certain amount of deference is to be paid to the popular mind. They have, also, always been opposed to any interference of the citil powers in ecclesiastical matters. The disruption ministers met with much sympathy throughout the country, but the majority of the nobility and great landed proprietors went with the Established Church, and some of them were guilty of very cruel and oppressive acts towards the Non-intrusionists. Some of them, for a long time, refused to grant any sites on their lands for churches or other buildings, though nearly all have now conceded this favor. Indeed, people at a distance could scarcely conceive how high party feeling ran, and what bitterness existed between the two parties; and sarrely less remarkable is the degree to which it has passed away in so short

terial charges, besides numerous preaching-stations; it supports missionaries in all parts of the world; has established schools in almost every parish; built churches, manses, school houses, &c.; and has college or theological halls for the education of its ministers in Edinburgh, Glasgow, and Aberdeen. The tentes and government of the Free Church are identical, except in I the points already indicated, with those of the Church of Scotland.

-and-easy, a. Unrestrained; regardless of for

malities.

A club or resort whose members or patrons are free to drink, smoke, and indulge themselves without

free to drink, smoke, and indulge themselves without restraint.

Free'man, Edward Augustus, historian, born at Harborne, Straffordshire, Eng., Aug 2, 1823; entered Trinity College, Oxford, 1841; examiner in law and modern history at Oxford, 1857-58 and 1863-64; in modern history, 1884. He received the honorary degrees of D.C.L. from Oxford in 1870; LLD. from Cambridge in 1874 and from Edinburgh in 1894, and honorary membership in the University of St. Petersburg in 1877. Dr. Freeman's fame rests on his many notable historical productions and particularly on his History of the Norman Conquest (5 vols., 1867-76), which is one of the greatest monuments of English historical erudition, its one fault being, in the opinion of a critic, lack of condensation. His other historical works were very numerous, some of the principle once being: History and Conquests of the Saraceus; Groeth of the English Constitution; Comparative Politics; The Ottoman Power in Europe; Historical Geography of Europe; The Reign of William Hufus; Chief Periods of European History; William the Conqueror; and History of Sicily from the Earliest Times, on which he was engaged at his death, March 16, 1892. As a historian, F. showed great learning and accuracy, but his power of insight and breadth of view seem less declared than his knowledge, and his style was somewhat marred by undue pedantry and expansion.

Free-Soil Party. (U.S. Hist.) A former American political party, which grew out of the auti-alavery excitement of the years preceding the Civil War, its purpose being to oppose the extension of the institution of slavery into new States and territories. In 1846 David Wilmot, of Pennsylvania, offered an amendment to a bill presented to Congress for the appropriation of money to pay for Mexican territory, to the following

bill presented to Congress for the appropriation of money to pay for Mexican territory, to the following effect: "Provided that there shall be neither slavery effect: "Provided that there shall be neither alavery nor involuntary servitude in any territory on the continent of America which shall hereafter be acquired by or annexed to the U. S. by virtue of this appropriation or in any other manner, &c." This provise formed the basis of the principles of the F.S. P., which was made up of members of several former political organizations. The F.S. P. nominated Van Buren for the presidency in 1848, but received no electoral votes. In 1852 it nominated John P. Hale and George W. Julian, with similar lack of success. In 1856 the party was merged into the new Republican party.

Previment, in Washington, a post-town of King co., 3 m. from Seattle, on S., L. Sh. & E. R. R. Pop. (1897) about 800.

Fremont, in Wyoming, a W. central co.; area, 12,000 sq. m. Rivers. Sweetwater and Big Horn rivers. Surface, mountainous, with numerous elevated plains; soil,

face, mountainous, with numerous elevated plains; coil, fertile. Industries, mining and stock raising. Cap. Lander. Pop. (1890) 2,463.

Fremon time. (Bot.) A remarkable and beautiful California bush belonging to the Sterouliacese. Along with the hand-plant of Mexico (Cheirostemon), it differs from the others in that group in the flowers having no petals; and from the latter it is readily recognized by the bell-shaped calyx, which remains attached, and does not fall away when the flower withers. F. californica was first discovered

by Colonel Fremont (whose name it bears) in one of his Califorin one of his Califor-mian expeditions in the northern part of the Sierra Nevada. It forms a deciduous bush four to ten feet high, having much the aspect of an ordi-nary fig-tree. The rounded five-to sevenlobed leaves, however, are smaller than those



clothed sparsely with cinnamon-colored down outside; five stamens having their stalk united below into a cup; and an ovoid ovary surrounded by the staminal cup, and terminating in a simple style. The fruits are oval capsules, which when ripe, split into five woody portions, each of which contains a few black seeds.

Fremch, WILLIAM HENRY, soldier, born at Baltimore on Jan. 13, 1815; graduated from West Point (1837) and was assigned to the artillery; served in the Seminole War, and as an aide in the Mexican War; was appointed brigadier-general of volunteers in the Federal army in September, 1861, and served through the Penin-

sular campaign; commanded a division at Antietam and Frederickeburg; was made major-general of volunteers in October, 1882, and had command of the 3d army corps from November, 1883, to May, 1884, when he retired from the volunteer service. Was retired from the U. S. A. in July, 1880, and died May 20, 1881. French Roof, n. (Arch.) An American modification; of the manaard roof, having a nearly flat deck for the upper slope.

upper slope.
'rench'ville, in Maine, a post-town of Aroostook co.

upper alope.

Fremen's ville, in Maine, a post-town of Aroostook co.

Pop. (1890) 2,560.

Frere, Charles Theodore, French painter, born at Paris, June 24, 1816; studied with Colgnet and Requeplan. He took his subjects from Eastern life: had a studio in Cairo, and one in Paris. His pictures include: The Halt of the Arabs; A Harem at Cairo; Ruins of Kuruak, &c. Died May 29, 1884.

Frere, Sir Henry Barriz Edward, diplomatist, born in Wales on March 29, 1815; educated at the India College, Haileybury; entered the civil service in Bengal, serving with distinction during the Indian mutiny; was governor of Bombay (1862-67); member of the privy council (1873), and governor of Cape Colony (1873-80); was president of the Royal Geographical Society. Died at Wimbledon, May 29, 1884.

Frere, Pierre Edouard, painter, born at Paris, Jan. 10, 1819; pupil of Paul Delaroche. His specialty was child-life, and his paintings show much grace and depth of feeling. They include: The Little Gournand; The Road to School; Preparing for Church; The Orphan's First Prayer, &c. Died May 23, 1886.

Frere-Orbam, Hubert Joseph Walther, statesman, born in Liege, Belgium, April 24, 1812; called to the bar in 1832. He held successively the offices of Minister of Public Works, and of Finance, and was head of the Cabinet, with the portfolio of Foreign Affairs (1878-84). He was a leader in public improvements and of the Belgian liberals. Died Jan. 2, 1898.

of Public Works, and of Finance, and was head of the Cabinet, with the portfolio of Foreign Affairs (1878-84). He was a leader in public improvements and of the Belgian liberals. Died Jan. 2, 1896.

Free'-saw, m. A saw with a long narrow blade, and usually with fine teeth, for cutting frets, scrolls, etc.

Freyeimet, Charles Louis de Saulces, de, engineer and statesman, born at Foix, France, on Nov. 14, 1828; studied at the Polytechnic School and the School of Mines, and did valuable work in the development of the French railway system, but about 1874 entered politics, becoming Gambetta's assistant in the war department; senator (1876); minister of public works (1877); premier and minister of foreign affairs (1877), resigning in 1880, but formed a new ministry in 1882 and again in 1886; in 1889 was minister of war under M. Tirard, and in 1890, for the fourth time, became premier and minister of war, this last ministry resigning on Feb. 19, 1892. F. has written several important works on engineering, and his political administration was notable for its strength.

Friday, Black. A Friday marked by some public calamity; specifically (in the U. 8.) the Friday of Sept. 18, 1873, when a financial panic began in New York that had a disastrous effect upon business for a long time.

Friedemburg, in Pennsylvania, a village of Berks co.

Trie denburg, in Pennsylvania, a village of Berks co. 10 m. E.N.E. of Reading. Its post-office is OLEY. Pop. (1890) 514.

Fried Gem Durg, in Pennsylvania, a village of Berks co., 10 m. E.N.E. of Beading. Its post-office is Olex. Pop. (1880) 514.

Friemd, in Nebraska, a post-village of Saline co., 35 m. W. of Lincoln, on C., B. & Q. R.E.; has flour mills and elevators, and a fine shipping trade in grain and stock. Pop. (1890) 1.347.

Friemd'ly Soci'cties. The name given in Great Britain to associations similar to the fraternal societies of the U. S. These societies are organized on the lodge principle, have secret meetings and ceremonials, but are mainly based on the principle of mutual aid, their secrecy and ritualistic ceremonies being issues of minor importance. The term originally included societies organized mainly for purposes of good fellowship, but its beneficial principle has descended from ancient times, as in the burial societies of the Greeks, Romans and Chinese, and of medieval Europe. The modern F. S., while descending from the medieval organizations, seems traceable in England to the Huguenot emigration to that country after the revocation of the edict of Nantes, these frugal and provident people bringing their societies with them, some of which still survive. In 1793 an act was passed for the protection and encouragement of the F. S., of which at that time nearly 1,000 were enrolled in Middleese alone. Their organization was simple, principally providing for monthly meetings, an annual dinner, uniform contributions, and levies in case of death of a member or the wife of one. During the 19th century the system of social and beneficial organization grew largely, various acts were passed for its control, and numerous strong lodge societies arose, many of which extended to the U. S., where some of them have had as large a development as in the mother country. These associations comprise three successive stages: the lodge, which insures pay to the sick; the littic an agraration of the edict of the sick; the littic an agraration of the sick of the sic many of which extended to the C. S., where some of them have had as large a development as in the mother country. These associations comprise three successive stages: the lodge, which insures pay to the sick; the district, an aggregation of lodges, which insures funeral benefits; and the order, which unites the whole, but has no insurance feature. In a measure, these conform to the lodge, grand lodge, and supreme lodge of the American societies. At a recent date there were estimated to be in England and Wales about 1,600 lodges, with 1,750,000 members, and over \$60,000,000 in funds. In addition to these are the assessment insurance societies, for the collection of death benefits, which have had a large development in England, as in the U.S., their membership being nearly 3,500,000. These are not organized on the lodge system; collections are made by agents, and the expenses of management are very considerable. The custom of insuring children on this principle has obtained great extension, both in England

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and the U.S., and has in some instances given rise to serious abuses and frauds. In France the F.S. receive State aid, and in Germany they are closely affiliated with the State, through the development of legislation in favor of accident, sickness and old age insurance. Free'bel, Friezbuch, the father of the kindergarten, was born at Oberweissbach, Thuringia, April 21, 1782, and at thirteen was apprenticed to a forester, who taught him mathematics, for which he showed great talent. He afterward studied at Jena and Berlin, being particularly interested in pedagog, in connection with talent. He afterward studied at Jena and Berlin, being particularly interested in pedagogy, in connection with which he twice visited Pestalozzi, and in 1816 opened a school at Keilhau. This was continued until 1826, and gained the reputation of being a paradise for children, but was said to be in a chronic state of hankruptcy. The plan adopted was to educate the children by making them observe and work, with nature as their teacher. F. married while here, his wife being his former student in mineralogy and recycling a hanny heliument in his The plan adopted was to educate the children by making them observe and work, with nature as their teacher. F. married while here, his wife being his former student in mineralogy, and proving a happy helpmeet in his labors. Schools were opened at Wartensee, Burgdorf, and William, in Switzerland; and during this period in F. studied comparative philology at Göttingen, as an aid in his duties. His wife died in 1839, just two years after F. had founded his first practical kindergarten, at Blankenburg. The first indications of the method here established had been given by him twenty-three years before, in a work entitled Human Elucation. In this, however, he maintained that the child's education should be conducted by its mother until seven years of age (an opinion which fuller acquaintance with the multifarious duties of mothers caused him to change); and to conclude that between the ages of three and seven it would be a relief both to mothers and children to gather the latter into companies and at once amuse and instruct them by the methods of the kindergarten. During the following twelve years he was engaged in developing his new educational system, and in forming a corps of adepts in the method, dying at the end of this period, June 21, 1852, at Rudolstadt, where he had a training school for kindergartners. During this final period of his life he published his Die Mütter- und Kose-Lieder ("Mothers Cossetting Songs"), illustrated with plates and notes for the method, during its early years of mental development, by a proper directing of its spontaneous activities. The method established the principle of teaching the child, during its early years of mental development, by a proper directing of its spontaneous activities. The method established by him has since his day exercised an important and beneficial influence on all systems of education.

From belium, H. The kindergarten system. See Kindergarten, Erosen.

From teensten. Evokne, painter, born at La Rochelle, France, Oct. 24, 1820; studied with Remond and Cab

on K. C., P. & G., and A., T. & S. Fé R.Rs. Pop. (1890) 600.

Frontier', in Nebraska, a S.W. co.; area, 972 sq. m. Drained by Little Medicine creek. Surface is undulating and nearly destitute of timber. Stock raising is the leading industry. Cop. Stockville. Pop. (1890) 8,497.

Frossard, Charles Auguste, soldier, born in France, April 26, 1807; educated at the Ecole Polytechnique in Puris, and School of Artillery and Engineering in Metz; entered the army (1827) and won distinction in Algeria and the Crimea, where he commanded the second engineering corps; was chief of the engineering department in the Italian war (1859). During the Franco-German war he commanded the 2d army corps, and on the capitulation of Metz was captured by the Germans. Died Sept. 3, 1895.

Froth'inglasma, Octavius Brooks, author, born in Boston, Nov. 26, 1822; graduated born Harvard and studied theology at Cambridge; for many years was pastor of the Third Unitarian Society, which he established in New York; afterwards became a Free Religionist; was president and one of the founders of their association; was art-critic for the New York Tribune; contributor to the Index, an organ of free religion printed in Boston; and author of The Religion of Hummity; The Life of Theodore Purker; The Cradle of the Christ; Recollections and Impressions, &c. Died Nov. 27, 1895.

Fruit Cul'ture. (Agric.) Botanically, every flowering plant has its fruit, consisting of the seeds and seed

Christ: Recollections and Impressions, &c. Died Nov. 27, 1895.

Fruit Cul'ture. (Agric.) Botanically, every flowering plant has its fruit, consisting of the seeds and seed vessels with the associated parts. But commercially the name is applied only to the succulent fruits, those used for food by man, the edible seeds being thrown as nuts and grains. Of the fruits of the north temperate zone the best known are the apple, pear, peach, plum, cherry, quince, fig. melon, and grape, with the several familiarly known berries. To these may be added a number of fruits made very familiar to the north by commerce, the orange, lemon, banana, pineapple, olive, etc. Most of those from their native soil, being raised wherever the climate and soil render this profitable. In this outspreading the apple perhaps takes the lead, its range being very wide through latitude and longitude, while it gains added value from the fact that its varieties ripen from midsummer till late autum. The same may be said of the pear, but cannot be said of fruits in general, most of them having a limited period of ripening. The succulent fruits, as we know them, are largely a product of human intelligence. In their wild state most of them are small in size, and unpleasant or but

slightly attractive in tasts, their present great size and luacious flavor being due to persistent selection of the best varieties. This selection has been going on for ages; and we know that most of the fruits we now possess were in successful cultivation early in the Christian era, many varieties being then known, among which were 36 varieties of the pear. Selection probably proceeded in a somewhat haphazard fashion until about the beginning of the 19th century, with little increase in the varieties grown; but during that century the varieties in cultivation enormously increased, with, in many cases, great increase in size and improvement in flavor. Of marked development in size that of the strawberry is a striking example. Of the varieties now enumerated the U. S. is said to possess some 2,400 distinct kinds of apples, 1,300 of pears, and about 560 each of peaches, grapes, and strawberries. The total number of varieties of these fruits throughout the civilized world cannot be definitely enumerated. North America owes to the Freuch settlers, and particularly to the missionaries of the Roman church, most of its exotic fruits, these having been diligent in their introduction. owes to the French settlers, and particularly to the missioneries of the Roman church, most of its exotic fruits, these having been diligent in their introduction. The English also took some share in this work. Indigenous species of cherries, plums, apples, &c., were found in this country, but the cultivated orchards were early supplied with European varieties, little effort being made to cultivate the native species. The French gave special attention to the apple and pear, which were freely cultivated by 1610. Jesuit missionaries introduced the European grape into California and other warm regions of the country, but it proved unsuited to the colder north, and the native species of this fruit have been widely cultivated. Nurseries for the growth and sale of fruit trees were first known in America about 1798, at which date many varieties were known, especially of the apple. F. C. became an important agricultural industry early in the 19th century, and has had a steady and rapid development until the present time. present time.

and has had a steady and rapid development until the present time.

METHODE OF SELECTION.—The production of new varieties of fruit ranks among the most important operations of the farming industry. For this purpose the seeds of carefully selected fruits are sown. A valuable variety once obtained, it is preserved by continued grafting, it never being sure that a seed will yield a fruit resembling its parent form. Thus, in F. C., heredity is the result of grafting; variation, of seed planting. Variation is also attained by crossing, unlike trees being grown in propinquity that natural crossing may take place, and artificial crossing being produced by impregnating the stigma of one blossom with pollen taken from another. Natural impregnation is thought to yield the best results. Of operators in fruit selection, the names of Van Mous, of Relgium, and Knight, of England, are best known. For years Van Mous constantly selected the choicest seeds of the pear, beginning with the wild fruit and continuing through eight generations, by which time he had produced a great deviation from the original. In Knight's experiments the artificial crossing of varieties were pursued. To these two methods we owe most of our valuable modern fruits, but to them must be added the preservation of useful chance variations, termed "sports," such as that which yielded the nectarine from the peach. The soil and climate of the U.S. are well adapted to F. C., and it may be considerably extended with advantage. But it must be borne in mind that fruit-trees demand good soil as well as other vegetable products, and the poor bearing and indifferent fruit, for which many farmers blame be considerably extenses with savanage. But must be borne in mind that fruit-trees demand good soil as well as other regetable products, and the poor bearing and indifferent fruit, for which many farmers blame their trees, are really due to their own neglect. They hope for a generous yield from half-starved trees. Fertilization is a requisite of successful cultivation, but it must be conducted wisely. The peach, nectarine and apricot, for instance, must not be unduly stimulated, since this induces them to lear too late in the season and exposes them to danger from frost. Judicious thinning of the fruit in prolific seasons is another important process, rarely performed. If the tree be left crowded, the fruit will be small in size and deficient in flavor. If properly practiced it yields finer fruit, with no loss in total bulk, while permitting the removal of the insect-stung and otherwise defective fruit. A third requisite is a constant battle with innect enemies which, if left free to act, commit great ravages. All this suitals requisite is a constant battle with insect enemies which, if left free to act, commit great ravages. All this entails much labor, but it is a labor that pays. The apple, for instance, the most easily managed of fruit trees, which, yields under ordinary methods a return of \$50 to \$100 per acre, can be made to yield \$200 or \$300. Grapes and pears may be stimulated to a yield of \$500 per acre, and strawberries, with special care and skill, may be forced well up toward \$1,000 per acre.

FRUIT CHARACTERISTICS.—The apple has long held its own as the favorite fruit of temperate climates. While less luscious than the pear and peach, it surpasses them in hardihood, ease of culture, and long-continued bearing; and has also the advantage of keeping longer, with less

hardihood, ease of culture, and long-continued bearing; and has also the advantage of keeping longer, with less care, than other fruits, thus forming a valuable addition to the winter fruit-supply. This is difficult or impossible with most other fruits. None of the more juicy species will keep, with the exception of the grape. Another characteristic of the apple and pear is that they will continue to ripen after pulling. This is notably the case of the pear, many varieties of which ripen with a better flavor in the house than on the tree. It is a useful property of several of the important fruits, such as the orange, banana and pineapple, which can be plucked unripe and will ripen in the voyage. Fruits vary greatly in size, shape, color and general appearance, and also in degree of juiciness, sweetness or acidity, while in some instances they possess the unpleasant properties of bitterness, astringency, pun-

gency, &c. The aroma also varies greatly, being in many instances highly agreeable, in some decidedly unpleasant. The durian of Asia, for example, while one of the most luscious of fruits, has a diagusting odor. Kearly every fruit has some characteristic and distinguishable flavor, there being thus an adaptation in fruits to every variety of human taste. In consistency they vary from the firm flesh of the apple, through various degrees of growing juiciness, to the condition of fruits which are simply reservoirs of delicious juices. These juices vary through many grades of sweetness and tariness, many of the fruit acids being highly valuable as health preservatives, particularly those of the

various degrees of growing juiciness, to the condition of fruits which are simply reservoirs of delicious juices. These juices vary through many grades of sweetness and tartness, many of the fruit acids being highly valuable as health preservatives, particularly those of the the lemon and lime. As a rule, the fruits of summer and autumn form a store of food specially adapted to those seasons, and the health of every community is likely to be the better the more freely they consume these grateful gifts of nature. Within recent years, however, commerce and methods of preservation have rendered it easy to supply fruits without regard to season, soil or climate, and many of the fruits are obtainable the year round, a fact which will certainly prove far from detrimental to the health of the community. Fruit Preservations. The former methods of preserving fruit—in addition to that applicable to a few fruits, of keeping it in a fresh state—were two: the one being drying by the heat of the sun; the other the employment of preservative agents, such as acida, alcohol, sait, sugar, sattpetre, &c., each of which gave its particular flavor to the product. In this latter method were produced the pickles, brandiel fruits, marmalades, sugared or candied fruits, &c., of old housekeepera, now much less used than formerly. The drying, as of old practiced, was unsatisfactory in results, the aliced fruit, exposed to the sun and wind and also to dust and insects, yielding a blackened and hardened product that no amount of softening and cooking could restore to more than a suggestion of its original pelatableness. When the work was done with care and skill, a more satisfactory result appear, stustisfactory. With fruits dried whole, such as grapes, plums, &c., better results appear, though oven drying; is now to some extent employed in the production of currants, raisins, and prunes. Oven drying, now generally employed in the case of the apple, peach, &c., is far more rapid than solar heat in its effect, and yields a product much less is reduced in temperature and laden with the moisture which it has extracted from the fruit. Thus, at the top the fruit meets a warm moist air, and the process of dessication begins slowly, increasing as it descends into a dryer and hotter air; while at the bottom the last remnant of moisture is extracted, and the fruit issues with little change in color and induration of surface. This method has been applied to many fruits and vegetables with very favorable results, the dried fruit, when soaked in water, regaining much of its original condition. Yet many look upon heat as an injurious curative agent—one which causes a partial loss of flavor and tends to cause a degree of formentative change. To avoid these results the cold blast system has been resorted to, the fruit being exposed to a dry air current at a temperature of from 32° to 60° F. This process has a considerable advantage in economy over the former, while the dried fruit is said to retair its native qualities almost perfectly and to remain good indefinitely. But a considerable advantage in economy over the former, while the dried fruit is said to retain its native qualities almost perfectly and to remain good indefinitely. But the drying, and more fully the curing, processes of F. P. have been largely set saids of late years by the canning methods, in which the fruit is kept in air-tight in cans or glass jera. This method is applicable to every kind of perishable food, and requires that sufficient heat should be applied to destroy all germs or microbes capable of setting up fermentation or putrefaction. The can being closed and rendered air-tight while the heated state continues, the usual causes of change are effectually removed, and the food may be kept unchanged for an indefinite period. It is, of course, partly cooked by the heat applied, but its natural qualities are well retained, and if cooked or emoval from the can it closely resembles fresh cooked fruits or vegetables. In this process sugar is generally added to fruit, but only sufficient to impart an agreeable flavor.—Cold Storage. The most recent method of P. P. is that known as cold storage, one applicable not only to fruit but to food of all kinds. In this the substance preserved is kept constantly at or near the freeing temperature, which checks all change in its constitution, and yields it when warmed in its original state. Some change, however, appears to have taken place, since the food thus kept is found to decay, when restored to ordinary temperature, much more quickly than the unforzen substance. The various processes named have since the food thus kept is found to decay, when restored to ordinary temperature, much more quickly than the unfrozen substance. The various processes named have enabled man to keep for use vast quantities of food Digitized by

stuffs which formerly went to waste, to supply fruit in a more or less fresh condition throughout the year, to send fruits unchanged to distant regions, and to supply tressles with a much greater variety of palatable food than they could formerly possess.

Fry. Janes B., soldier, born at Carrollton, Ill., Feb. 22, b-27; graduated from West Point, and served in the Mexican War; was assistant adjutant-general in 1861, and chief of stuff to Gen. McDowell; his chief service was in 1863-66, during which period he was provostmarshal-general of the U.S. Under his direction more than a million men were enlisted or drafted into the Federal army, and over 76,000 deserters captured and returned. Was afterward adjutant-general of the divisions of the Pacific, the South, and the Atlantic; retired in 1841, with the rank of brevet-major-general, and died July 11, 1884.

in 1891, with the rank of brevet-major-general, and died July 11, 1884.

Frye. William Pierce, LLD., statesman; born in Lewiston, Me., Sept. 2, 1831; graduated at Bowdoin College; practiced law. He held various public positions including that of attorney-general of Maine; was representative in the 421 and five succeeding Congresses, and elected United States Senator (March, 1881) to fill the unexpired term of James G. Blaine; was re-elected in 1881 1893 and 1895.

in 1863, 1889 and 1895.

in 1883, 1889 and 1885.

Fryx'ell, Andras, Swedish historian; born at Hesselskog, in Dalsland, Feb. 7, 1795; studied at Upsala; was ordained as a priest, but from 1847 till the close of his life gave his attention to literary pursuits. Author of Narratices from Succelish History (Stockholm, 1832-80), which numbered 46 volumes many of them have been translated into the European languages. He also wrote Compiracies of the Succelish Aristocracy. Died March 21, 1831

led!

Fu'gitive Slave Law. (Amer. Hist.) A law enacted by the Congress of the U. S., in 1793, or one passed in 1850, tassed on a clause of Art. IV of the Constitution, providing that a slave escaping from his master into another State was to be seized and restored to his owner, and any person aiding in his flight was to be deemed guilty of committing a penal offence. There was much opposition to this law in the Northern free States.

States.
Full'-back, n. See Foor-Ball.
Full-blood'ed, a. Having a large supply of blood.
—of pure blood or extraction; thoroughbred.
Full-dress', a. Requiring the wearing of full-dress; as a full-dress excasion.
—a. The conventional style of dress for court receptions

or formal social gatherings.
Ful'ler, Andrew S., horticulturist, born at Utica, N. Y.

Fuller, Andrew S., horticulturist, born at Utica, N. Y., in 1829; was for many years a popular contributor to the New York Weekly Tribane and Weekly Sus on horticultural topics, and wrote several books on the culture of small fruits. Died May 4, 1896.
Fuller, Geneg, figure and portrait painter; born in Derfield, Mass., 1822; studied in Boston, New York London, and on the Continent. His Romany Girl was ethildted in New York in 1879, and later the Quadroon; Winirad Dysart: Psyche: Fedina, &c. His work was rich in tone, and attracted much attention from connoiseurs though not appealing to the popular taste. Died March 21, 1884.

March 21, 1884.

Fuller, MELVILLE WESTON, jurist, born at Augusta, Me

March 21, 1884.

Faller, Menville Wesrox, jurist, born at Augusta, Me., Fel. 11, 1833; graduated from Bowdoin College (1853), studied law at Bangor and at the Harvard Law School, and began practice at Augusta in 1855; became city adictor and president of the council the following year, but resigned these positions and removed to Chiago, where he soon attained a leading position at the bar. Was appointed Chief-Justice of the U. S. Supreme Court by President Cleveland (1888), succeeding Morrison R. Waite.

Faller, Saram Margarer, (Marchioness D'Ossoil), reformer and litterateur, born at Cambridgeport, Mass., May 23, 1810; studied with her distinguished father, Timothy P., after whose death she aided in the support of the family by teaching. She was exceedingly precochos; philosophy, history and sethetics were her favorits studies. She edited The Dial from 1839 to 1844, and in the latter year went to New York and contributed a long series of articles on literature and art to the Tribrae. Her Womans is the Ninteenth Century appeared in 1845; the following year she went to Europe, visiting Thomas Carlyle, and later proceeding to Rome, where the met and married Count D'Ossoil in 1847; salled for America with her husband and infant, May 17, 1860; and on the morning of July 16, when off Fire Island, a hurricane burst upon the ship and the three perished in besurf.

the surf.

Full-jew elled, a. (Horol.) Having all the pivotboke-13 in number—supplied with jewelled bearings
(applied to watches.)

Fur brimger, MAX, anatomist; born at Wittenburg,
Saxony, Jan. 30, 1846; educated at the Universities of
Jena and Berlin; made a special study of zollogy and
anatomy, and became professor extraordinary of
anatomy at Heddelberg, and later director of the Anatomical Institute of Amsterdam; since 1888 has filled
similar positions at Jena. His most important work
is: Intersuchangen sur Morphologie und Systematik der
Voyel.

Fur'mas, in Nebraska, a S. co.; area, 720 sq. m. It is intersected by the Republican river. The surface is undulating, and well timbered; the soil fertile and

adapted for grazing. Cap. Beaver City. Pop. (1890)

\*\*GRANGE HORACE HOWARD, critic and litterateur, son of Rev. William H. F.; born in Philadelphia on Nov. 2, 1833; graduated from Harvard (1854), studied law, and was admitted to the Philadelphia bar in 1858. Mr.

of Rev. William H. F.; born in Philadelphis on Nov. 2, 1833; graduated from Harvard (1864), studied law, and was admitted to the Philadelphis bar in 1859. Mr. F. has contributed somewhat largely to legal literature, but his chief work has been the preparation and editing of a variorum edition of Shakespeare, of which several volumes have been published.

Farmess, William Henry, Unitarian clergyman and author; born at Boston on April 20, 1802; studied at Boston Latin School, and graduated from Harvard College (1820), and Harvard Divinity School (1823); became pastor of the First Unitarian Church, Philadelphia, in 1825, a charge which he held until 1875, being pastor emeritus thereafter until his death, Jan. 30, 1896. Dr. F. was the associate and close friend of Emerson, Summer, Garrison, at d Lucretia Mott, and an earnest abolitonist; in addition to his pastoral work, he wrote extensively, his favorite theme being the life and character of Jesus. He was a man of singular purity and strength of character, universally beloved and respected by his associates.

Furmess, William Henry, Jr., artist, born in Philadelphia on May 21, 1822; studied in Dusseldorf, Munich, Dresden, and Venice, and established a studio first in Philadelphia and then in Boston, achieving fame as a portrait painter. Died March 4, 1867.

Furmess, William Henry, Jr., artist, born in Philadelphia on the his pied March 4, 1867.

Furmess, William Henry, Jr., artist, born in Philadelphia for the Workingmen's College, where he taught for ten years; student in philologist; born at Egham, Surrey, England, Feb. 4, 1825; student of University College, London, and Trinity Hall, Cambridge, receiving the degree of B.A. in 1846 and M.A. in 1849; (under of the Workingmen's College, where he taught for ten years; student in philology and organizer of numerous societies for the publication of English texts; honorary secretary of the Philological Society. His works number about thirty editions of classical English texts, several Shakespeare quartus in fac-simile



Fig. 2903.—FUSUS ANTIQUUS (as used by the Zetlanders

generally about six inches long, is used for a lamp, being suspended horizontally by a cord, its cavity containing the oil, and the wick passing through the canal. This moliuse is often dredged up with oysters. It is eaten by the poor, but is more generally used as bait for cod, skates, &c. This genus makes its first appearance in the Colite, in which 10 species have been noticed. The numbers increase to 35 in the Cretaceous rocka, to 100 in the Eocene, and to 150 in the Miocene and Pilocene. Finnee, s. A device to produce explosion at a distance, and insure safety from its effects. The fuzes for this purpose differ widely in character, in accordance with the moving or stationary condition of the explosive, and the immediate or protracted time designed for the explosion. The fuzes employed in projectiles are of three classes, designated as time, percussions and combinations. The first of these, the time F., is a case of paper, wood, or metal, containing the ingredients of gunpowder, combined in a manner to produced combustion at a desired rate. These, being made of proper length, are inserted in the F. hole of the projectile, are ignited by a match or by the fiame of discharge, and reach the charge of the shell, explosive bullet, or whatever it may, be at a fixed time in its flight. This arrangement sufficed for smooth-bore guns, but proved inapplicable to rifled guns, the rotating device cutting off the flame of discharge from the F. and preventing its ignition. In these guns the shock in the bore is utilized to kindle the F. In the "M'Evoy attachment" a hollow cylinder of wood was fixed to the outer end of a time F, it containing a gun primer loaded with lead, which was ignited by the shock of the discharge, and fired the F. Many other inventions have appeared, some mechanical in operation, some employing fulminates, and using in some cases the shock of translation, in others that of rotation, to fire the igniter. The

greater time of flight due to the long range of recent guns, has increased the difficulty of exactly estimating the time of explosion, and researches are still kept up. One F. is designed to have the explosion take place after the fall of the shell. A small bottle of sulphuric acid is broken by the shock, the escaping acid soaking through several thicknesses of slowly absorbing paper before reaching a mixture of chlorate of potash and sugar placed within, and detonating it by contact.—Percussion Fuses. These are designed to produce explosion by the shock of contact between the projectile and the object. This is difficult to effect unless contact is made at a particular point on the projectile, and therefore is of little utility except with riffed arms or with grenades whose motion is guided by some device. An ordinary form of this class of fuses is a percussion cap on a gun-one placed within a plug at the point of the projectile, and igniting by impact. The fire F. used in the Civil War for incendiary shells, embraced a small vial of fulminate left after the shock of discharge, by an ingenious device, unprotected among some loose shot. The slightest impact caused this to detonate. Ordinarily it is aimost impossible to-produce explosion by percussion until the projectile has buried itself to some distance in the earth, thus greatly reducing its destructive effect. This is, however, of advantage in treaching a masonry wall or penetrating an iron-plated ship, since it adds to the effect of the explosion. In the latter case it has been found best to dispense with fuzes and place the bursting charge in a financial, so as to retard the explosion until it can produce lag greatest effect on the iron plating.—Combisation Fuse. This consists of a time F, to which is added a device to cause explosion upon impact. The Splingard Fuse. This consists of a time F, to which is added a device to cause explosion upon impact. The Splingard Fuse. This consists of a time F, to which is added a device to cause explosion of this class

arms.

Fyffe, Joseph, U. S. N., born in Ohio on July 26, 1832; became midshipman in the U. S. navy in 1847, and reached the rank of rear-admiral on July 10, 1894, more than half of this time being passed at sea, including distinguished services during the Civil War, as lieutenant-commander and commander. Betired July 20, 1894, and died February 25, 1896.

The seventh letter, and the fifth consonant of the English alphabet, is the third letter in those of all the Oriential languages, and also of the Greek. The form of our G is borrowed from the Roman alphabet, in which, as in all the modern European languages, it stood seventh in order of priority. G in English has two sounds—guttural and sibilasi; before a, a, and u, and occasionally before i and e, it is the medial letter of the guttural order, as in gare, gare, gusto, and (in an exceptional sense) in gild, get. The other sound, which it possesses only before e and i, is one of the medials of the sibilant series, having the same sound, in fact, as j, as in gem, gis. G in its proper power, belongs to the order of gutturals k or c, g, ch, gh; of the two "bare" gutturals g is the fad (or medial), and k the sharp; while ch and gh are the corresponding aspirates.—G as a Roman abbreviation is used for gratia, gens, gendium, &c. G.V. signifies genio wrbis, G.L. genio loci, and G.P.R. gloria populi Romani.—As a numeral it denoted 400, and with a dash over it, 40,000. On the French coins, G indicates the city of Poitiers, and in chronology it is the seventh Dominical letter.

(Mus.) G is the fifth sound of the chromatic scale. It stands in proportion to C as 2 to 3; is a perfect fifth above C, and the second harmonic arising from C as a fundamental note. In the solmisation of Guido Aretinus the hexachord began with C, F, or G. G major as a key has one sharp at its signature, viz., F sharp. G minor has two flats at its signature, viz., F sharp. G minor has two flats at its signature, viz., F sharp. G minor has two flats at its signature, viz., F sharp. G minor has two flats at its signature, viz., F sharp. G minor has two flats at its signature, viz., F sharp. G minor has two flats at its signature, viz., F sharp. G minor has two flats at its signature, viz., F sharp. G minor has two flats at its signature, viz., F sharp. G minor has two flats at its signature, viz., F sharp. G minor has two flats are grained work.

Gas

crowd without.

Gab'ble, v. n. [Du. gabberen, to jabber.] To talk fast, or to talk without meaning; to utter inarticulate sounds with rapidity; to jabber.

"To gabble like tinkers in an ale-house."—Sh

a. Loud or rapid talk without meaning; inarticulate sounds rapidly uttered, as of fowls.

Gab'bler, s. A noisy talker; a prater; one who utters inarticulate sounds.

inarticulate sounds.

Gab'bling, n. The making of a confused noise; rapid, indistinct utterance.

Gab'bronite, n. [Gabbro, the Italian name of a rock composed of dialize and feldspar.] (Min.) A variety of altered Scapolite. See Werneritz.

Ga'bel, n. [A. S. gafel, gaful, from gafan, to give; Fr. gabelle; It. gabella. See Gavel.] An excise; a tax; an impost.

The gabele of Naples are very high."—Addis

"The public of Naples are very high."—Addison.

tiatheler, m. A collector of taxes; an exciseman.

tiabelle, (ga-bel',) n. [Fr., probably from the Teut. geben,
to give.] In France, this term was originally applied to
any tax or impost laid upon commodities, but which
afterwards came to be specially applied to a duty upon
sait. This sait-tax was first established toward the end
of the 18th century, in the reign of Philip IV. It was
very anequally distributed, some parts of the country
being altogether free, and others more or less heavily
taxed; and hence it was very unpopular, and frequently
gave rise to disturbances. It was finally abolished in 1789.
Chab'erdine, n. Seme as Gabardher, q. v.
Gabberlum'sie, n. [Scot.] A beggar; one who has
no money to pay his expenses.

Gabii, (gai'be-i.) a city of the Volsci, taken, about 500
a. c., by the artifice of Extua, the son of Tarquin, who
gained the confidence of the inhabitants by deserting to
them, and pretending that his father had ill-treated him.

Sab'ilam Moemutains, in California, a branch of

the Coast Range extending S. through San Mateo and Santa Crux cos., into Monterey co.

Gabin'lus, a Roman consul, who made war in Judsa, and refeatablished tranquillity there. He suffered himself to be bribed, and replaced Ptolemy Auletes on the throne of Egypt. On his return, he was accused of receiving bribes. Cicero, at the request of Pompey, ably defended him. He was banished, however, and D. at Salona, about 40 B. C.

Ga'biom, s. [Fr.; It. gabbione, aug. of gabbia, a cage, from L. Lat. gabia, Lat. carea, an enclosure, from careas, hollow.] (Mil.) A basket or cylinder made of wickerwork, open at both ends, used in the construction of earthworks. These baskets, which are 2 ft. 9in. in height, and 2 ft. in diameter, are thus made: A number of stakes, varying from about 21 to 27, according to the flexibility of the osiers or brushwood that are used in making the G, are driven into the ground at equal intervals round

of the esters or brushwood that are used in making the G, are driven into the ground at equal intervals round the circumference of a circle traced thereon, with a radius of 11 in., that the outer diameter of the G. may not exceed 2 ft. when it is completed. The willow rods, or any other material that can be obtained which is suitable for the purpose, are then twisted between and about the stakes, each successive layer of rods being tightly pressed against the one below it, until the basket-work has attained the requisite height. The G. is then pulled up, the osiers at the top and bottom are secured to prevent them from coming out of place, and the ends of the stakes are cut off about 3 in. from the basket-work at either end and sharpened. Gabions are used in



of place, and the ends of the stakes are CARION. cut off about 3 in. from the basketwork at either end and sharpened. Gabions are used in making earthworks. They are placed on end and filled with earth taken from the ditch dug out in front of the rampart. They add considerably to the strength of the mound, by affording support to the earth that is thrown over and against them. When one line of gabions is placed on top of another, a row of fascines is generally placed between them.

Garbionnade, n. [Fr. See Suppa.] (Mil.) A bulwark, or parapet, chiefly made of gabions.

Garbie, n. [Ger. giebel; Dan. gavi; Lat. gabulus, a pointed roof. Cf. Gr. kephale, the head.] (Arch.) The upper part of the end-wall of a building, the sides of which meet in an angle and afford support to the ends of the rafters of the roof. The angle thus formed corresponds to the shape of the roof; it attains the greatest degree of acuteness in

gree of acuteness in Gothic architecture. (Fig. 1096.) The gables of the different styles (Fig. 1096.) The gables of the different styles of Gothic architecture were often richly ornamented, the wall being raised above the roof and finished with a coping and fluial, which generally assumed the form of a cross in churches and buildings designed for ecclesiastical purposes. In Elizabethan architecture, the outline of the gable was outline of the gable was composed of curves and angles variously com-bined, that known as the ogee-gable being the most common. It often richly ornamented with open stonework



Fig. 1096. STANTON HARCOURT. (England, 18th century.)

with open stonework.

The sloping sides, particularly in old Scotch, Dutch, and German buildings, were sometimes finished in the form of a series of steps, which, in Scotland, were termed "corbie steps." In domestic Gothic architecture, the roof generally projects beyond the face of the gablewall, and an ornamental barge-board is attached to the end of the rafters. The end of a house terminating in a gable is indifferently called the gable or gable-end of the building.

Ga'ble-roof, n. (Arch.) A roof converging to an

Ga'ble-root, n. (Arch.) A root converging to an apex in the manner of a gable.
 Ga'ble-window, n. (Arch.) A window having its upper end shaped like a gable. — A window in the gable of a building.
 Ga'blet, n. (Arch.) A small ornamental gable or

Gablet, n. (Arch.) A small ornamental gable or canopy, formed over a tabernacle, niche, &c. Gab'-locks, n. pl. False spurs placed on game-cocks

Gaboom', a bay on the coast of W. Africa, in about Lat. 0° 30' N., and Lon. 9° 20' E. In 1843, the French established there a fortified factory, whose pop. in 1874 was about 5,000. Here resides a French bishop, as well as American, English, and Portuguese missionaries. Gabriele, (gat'bre-l.) [Heb., atrength of God.] An ancel of high bonor in the service of God. He was sent to the prophet Daniel to explain his visions; also to Zacharias, to announce to him the future birth of John the Baptist (Dan. viii. 16; ix. 21; Luke i. 11-19). Six months afterwards he was sent to Nazareth, to the Virgin Mary (Luke 1. 26-38). Ga'briel Chanmel, a strait of Terra del Preço, between Dawson Island and the mainland. This remarkable channel is about 2½ m. wide at either end, but the shores approach towards the middle, and rise to an almost perpendicular height of 1,500 ft. The hurricane squalis, or willwosses, so common in this region, sweep the channel with such violence as to carry everything before them. Lat. 54° 20' 8., Lon. 70° 40' W. Gabrielle d'Estrées, B. 1571, was the daughter of Antoine d'Estrées, 40 years grand-master of artillery in France. Henry 17., visiting her father's château in 1890, fell in love with her, and she became his mistress, retaining his affection for many years, and enjoying the honors though not the title of queen. She received the title of durece of Besufort. Anxious to legitimate the children she had borne to the king, she presed for a marriage. But Margaret of Valois had not consented to a divorce, and Sully, the chief minister, opposed the marriage of Gabrielle sas sent to Paria, the king observing the Easter ceremonies at Fontainebleau. She was there seized with a fit of apoplexy or paralysis, and before the king ould arrive she was dead. Whether she was poisoned is a question which remains unanswered. Negotiations for the king's marriage with Marie de Medicis quickly followed the death of Gabrielle.

soned is a question which remains unanswered. Negotiations for the king's marriage with Marie de Medicis quickly followed the death of Gabrielle.

Gaby, Gawby, n. Asilly person; a dunce. (Colloq.)

Gad, n. [A. S. gad, a club, a sting.] A sharp-pointed rod or pricking instrument; a goad, as for driving oxen.—A wedge or ingot of steel or iron—A style

or graver.

"To write with a gad of steel."—Shake.

Any rod or stick, as a fishing-rod; particularly a rod cut and trimmed of its branchiets for the purpose of whipping children or of driving cattle. (Prov. Eng., and local U. S.)

—To be exuberant in growth; to shoot forth branches and tendrils in every direction, as the vine, the ivy. &c. Gad. [Heb., band or troop.] A son of Jacob and Zilpah, Leah's servant (Gen. xxx. 11), who gave his name to one of the twelve tribes of Israel, which was located E. of the Jordan.

—A prophet and faithful friend of David.

Gad'about, n. One who runs much abroad without business.

Gada'mes, an oasis of the great African desert, con

Gada'mes, an oasis of the great African desert, containing numerous villages, S. of the main chain of the Atlas. It is in the ceutre of the caravan routes which lead to Tunis, Tripoli, and several cases.

Gada'ra. (Anc. Grog.) A city of Decapolis, Palestine, of considerable importance in the time of Christ, and having many Greek inhabitants. It lay S. of the river Hieromax, 7 m. S.E. of the Sea of Galilee, upon the level summit of a steep limestone hill. A few ruins are found on the top of the hill, and many excavated tomlared its sides, still partly occupied as residences, and warm springs at its base. The country of the Gaderenes extended to the Jordan and the Sea of Galilee; and in the part of it bordering on the lake occurred the miracle recorded by Matt. viii. 28, ix. 1, Mark v. 1-20, Lake viii. 20-39.

recorded by Matt. vill. 23, ix. 1, Mark v. 1-20, Lake vill. 26-39.

Gad'di., n. A rambler; one who roves about idly.
Gad'di. [Heb., my troop.] One of the spies sent by Moses from Manasseh to explore Canaan.
Gad'diel. [Heb., God is my happiness.] One of the spies sent from Zenubon to explore Canaan.
Gad'dissl., a. Disposed to wander about idly.
Gad'dissl., a. Disposed to ramble about idly.
Gad'dissl., a. Disposed to wander about idly.
Gad'dissl., a. Disposed to family a family.
Names common to many insects of the family Gatridx, q. v., the genus Gatrius of Linnsens; divided by others into the two families Pubanidx, or Horse-fly, and
Catrida, or Bot-fly. The name bot is sometimes restricted to the larvae, the other names being given to the perfect insects. The insects of this family are now supposed not to be those which were called Catrius by the ancients, although, like them, extremely troublesome to cattle. They belong to the sub-order Diptera,

and are nearly allied to the *Mucida*, with small 3-jointed antennes, and mouth destitute of a probescis. The Gadfiy, or Horse-bot of the horse (*Gasterophilus*, or *Gastrus*, or *Gastrus*, for *Gastrus*, and the Breeze, the Horse-fly, or Horse-bee, occurs chiefly in elevated, healthy districts. It is not suite half-anish in the horse-bee. or Horse-bee,occurs chiefly in elevated, healthy
It is not quite half an inch in length, woolly, districts. It is not quite half an inch in length, woolly, with yellowish-gray head, rusty thorax, abdomen, and the wings whitish, with brownish-gray spots. The abdomen of the female terminates in a blackish horny tube. In the latter part of summer, the female hovers about horses, and deposits her eggs on their hairs, where they remain attached by a glutinous substance until they, or the larver just emerging from them, are licked off by the tongue of the horse, their destined place being its stomach. It is believed that the fly deposits her eggs only on those parts which are accessible to the horse. only on those parts which are accessible to the hors only on those parts which are accessible to the horse's tongue, seeming to prefer the back of the knee-joint, where they may sometimes be found in hundreds. The lara is yellowish, without feet, short, thick, soft, composed of rings which have a double row of short teeth surrounding them; it is somewhat acuminated at one end—the head; and the month is furnished with two posed of rings which have a double row of short teeth surrounding them; it is somewhat acuminated at one end—the head; and the month is furnished with two hooks, one on each side, for taking hold of the inner cost of the horse's stomach, to which the Bot attaches itself, and from which it derives its subsistence, hanging in clusters sometimes of three or four, sometimes of more than one hundred. Here it spends the winter; and in the following summer it disengages itself, and heling carried through the horse's intestines, burrows in the ground, and changes into an oval black pups with spiny rings, from which, in a few weeks, the perfect insect comes forth.—The Ox-bot, or Ox-gadily (Extrus Hypederma Boriz,) also called Bull-bee or Burrel-fly, is more troublesome than any species of Horse-bot. It is a beautiful insect, not quite half an inch long, and thicker in proportion than the Horse-bots; it has brown, unspotted wings; the face is whitish, the crown of the head brown, the thorax black, the abdomen whitish, with a broad black band around the middle, and yellow hairs at the extremity, where also the female has an oripositor,—a remarkable organ, formed of a horny substance, and consisting of four tubes, retractile within one another, like the pieces of a telescope, and the last of them terminating in five points, three of which are longer than the others, and hooked. By means of this organ a small round hole is pierced in the hide of an ox's back, in which an egg is deposited. The fly is very quick in depositing her egg, not remaining upon the back of the animal more than a few seconds. Cattle cithibit great alarm and excitement at the presence of the Gad-fly, and rush widely about, with head stretched forward, and tail stuck out, to escape from their tormetor. The further injury done by this insect is not, however, usually great; the larve, a little pearl-white maggot (warble or wormal), feeding upon the juices breath the skins, causes a swelling, called a worble, forming a sort of sac, within which it lives an

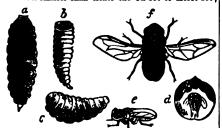


Fig. 1097. -SHEEP GAD-PLY, OR BOT-PLY. s, larva, full-grown; b. larva, younger; c, pupa; d, the face of the perfect insect, magnified; s, perfect insect, natural size; f, perfect insect, magnified.

It is of a grayish color, with a large head and yellow face, and is most abundant in damp situations and woody districts. It is to be seen chiefly in the months of June and July. Sheep exhibit great alarm when it approaches them, and seem to seek, by keeping their noses close to the ground, and by incessant motion of their feet, to keep it from entering their nostrils. It is in the nostrils of the sheep that this fly deposits its eggs; and the larve, when hatched, make their way into the maxillary and frontal sinuses, causing great irritation in their progress, and feeding upon the juices there until they are ready to change into the pups state, in April or May of the following year, when they find their way again through the nostrils to the ground.

Cad 'fly, in Missouri, a post-office of Barry co.

Ca 'dlear, n. pl. [Lat. gadus, a cod-fish.] (2001.) A family of malacopterygious fishes, including the Cod and its allies. They are easily known by the position of the ventral fins under the throat, and the pointed character of those fins. The body is long, rather compressed, and covered with small soft scales. The head is scaleless; eyes lateral; jaws and anterior part of the vomer furnished with several ranges of unequal teeth; the it is of a grayish color, with a large head and yellow face

gills large, 7-rayed, and opening laterally; a small beard at the tip of the lower jaw. Most of the species have the dorsal fin contained in two or three bundles; they have also fins behind the vent, and a distinct caudal beard at the tip of the lower law. Most of the species have the dorsal fin contained in two or three bundles; they have also fine behind the vent, and a distinct caudai fin. The greater number of the species live in cold or temperate seas, and furnish the greater portion of the fish obtained in England and America. Their productive powers are very great; and the numbers in which they exist in some parts of the ocean is perfectly incalculable. The principal genera are Gadus, or Morrhua, the Cods; Merlangus, the Pollacks, including the Cudden or Coalmir, Meriucius, the Whitings; and Lota, the Burbots. Gadita'miam, a. [Lat. gaditanus, from Gades, Cadiz.] Of or belonging to Cadiz in Andalusia, Spain.

—a. Anative or inhabitant of Cadis.
Gad'ling, n. [A. 8. gad, a goad or sting.] A gadder — A boss on the knuckle of a gauntlet. (Also called gad.) Ga'dold, n. (Zod.) A name of the family Gadde. Gad'lingte, n. (Zod.) A name of the family Gadde. Gad'dinite, n. (Min.) A mineral varying widely in its crystals, and physical and chemical characters, found principally near Fahlun, Sweden. It has a vitreous lustre, black to greenish-black color, and sp. gr. 4-45. Comp. Silica, oxides of beryllium, iron, yttrium, and cirium, and lime.
Ga'dor, (Sierra de.) a mountain-chain of Spain, in Andalusia, ranging nearly parallel with the Sierra Nevada. Its highest point is nearly 7,000 ft. above sea-level. Gadis'dem, in Ma, a thriving town, cap. of Etowah co., 63 m. N. E. of Birmingham. Pop. (1897) about 60,000. Gadsden, in Florida, a W. co., bordering on Georgia. Area, about 550 sq. miles. Rivers. Apalachicola, Ock-lockonee, and Little rivers. Surface, uneven; soil, fertile. Cop. Quincy. Pop. (1890) 11,894.
Gadsdem, in Tenasses, a post-village of Crockett co., 76 miles N.E. of Memphis.
Gad's "Hill, an eminence of England, co. Kent, 3 m. W. of Rochester. It has been immortalized by Shakspeare.

Gadsden, in South Carolina, a post-village of Richland co., 20 miles E.S.E. of Columbia.

Gadsden, in Tounessee, a post-village of Crockett co., 76 miles N.E. of Memphis.

Gad's Hills, an eminence of England, co. Kent, 3 m. W. of Rochester. It has been immortalized by Shakspeare, who, in the 2d act of his Henry IV., makes it the scene of a famous rencontre between Prince Henry and Falstaff. Mr. Charles Dickens, the novelist, had a country-seat here, where he died, in 1870.

Gad'sus, n. [L. Lat., codfish.] (2001.) See GADIDE.

Gad'sus, n. [L. Lat., codfish.] (2001.) The Anas strepera, a duck which inhabits the N. and E. parts of Europe.

Gael, (gallc.) n. sing. 2 pl. A Scottish Celt or Highlander. — An Irish Celt.

Gaelic (or Erwe) Language and Literature, (gail'lik.) The language spoken by the Highlanders of Scotland is termed by them the Gaelic; but the name frequently given to it by the Lewlanders is Erse, or Ersh, evidently a corruption of Irish. It is a dialect of that great branch of the Celtic languages termed the Gryddelian or Gaelic, and to which belong also the Irish and Manx, or that spoken in the Isle of Man. According to Dr. Prichard, the Celts are of eastern origin, belonging to the great Indo-European family. They arrived before the Teutons from the regions on the Oxus, and from Media, and penetrated through the Allophylic races along the southern shores of the Baltic Sea, at a time of which we have no historic data. At the time of the Roman invasion, Celtic was the language generally spoken in W. Europe. The dialects of the Celtic still spoken, besides the three already mentioned, are the Welsh, and the language of Brittany; while the Cornish, another dialect, though not now spoken, is preserved in books. The three dialects, the Irish, the Scottish-Gaelic, and the Manx, approach each other so nearly as to form, in fact, but one language, th races, and an intinaté connection subsisted between the two countries. For nearly four centuries, from about the middle of the 12th to nearly the middle of the 12th cent., according to Mr. Skene, "there was not only a close political connection between the W. Highlands and islands and Ireland, but the literary influence was equally close and strong; the Irish sennachies and bards were heads of a school which included the W. Highlands, and the Highland sennachies were either of Irish descent, or, if of native origin, resorted to bardle schools in Ireland for instruction in the language and the accomplishments of their art." A powerful influence must thus have been exercised upon the language and literature of the Highlands, which must have become literature of the Highlands, which must have become by degrees more and more assimilated to that of Ire-

land. The written and cultivated language of the Highlands thus came to be lientical with that of Ireland; but, according to Mr. Skene, we have no reason to conclude, on that account, that there was not a vernacular Gaelic which preserved many of the independent features of a native language, and existed among the people as a spoken dialect. The introduction, however, of the Reformation, in the 16th cent., gave rise to a religious literature, which, commencing in the written, or Irish-Gaelic, gradually approached nearer and nearer to the spoken dialect of the country, and, accompanied by the preaching of the clergy in the vernacular dialect, tended to preserve and stereotype the language spoken in the Highlands in its native form and idiom. The first printed book in Gaelic was a trunslation of the forms of prayer issued by John Knox, and printed at Edinburgh, 1567. The second was a trunslation of Calvin's Catechism, published along with an English edition, in 1630. In 1650 the Presbyterian synod of Argyle took up the work of issuing translations into Gaelic of the metrical Pasims and of the Scriptures. In 1690 the first Bible was published for the use of the Highlands. All these works were in the Irish orthography and Irish dialect, the last being simply an edition of the Irish version of the Bible, with a short vocabulary. The first work published in Scottish-Gaelic was Baxter's Call to the Unconverted, translated by the Rev. Alexander Macfarlane in 1750, who in 1753 also published the Paslms in Scottish-Gaelic. In 1767 the first translation of the New Testament was published in 1877. In 1816 a committee of the best Gaelic scholars was appointed by the General Assembly of the Church of Scotland not effect an improved translation of the Scriptures, the whole being published in 1826. The sarliest specimens of Scottish-Gaelic poetry are preserved in a collection made in the beginning of the 16th cent., by Sir James Macgregor, Vicar of Fortingall and Dean of Lismore, and now preserved in the Advocate's Library in which the one or the other harms product which the one of no mean literary value, as throwing some light upon the much controverted subject of Ossian's poems. "It contains no fewer than twenty-eight Ossianic poems, extending to upwards of 2500 lines: nine directly attributed to Ossian, two to Farris, or Fergus Filldh, and one to Caolte McRonau, the three bards of the Feine; two to Allan McRuadrig, and one to Gillie Callum Mac an Olla, bards hitherto unknown: and eleven poems, Ossianic in their style and subject, to which no author's name is attached." It is thus clear, "that the characters introduced into Macpherson's poems were not invented, but were really the subjects of tradition in the other of the other o characters introduced into Macpherson's poems were not invented, but were really the subjects of tradition in the Highlands, and that poems certainly existed which might be called Ossianic, as relating to the persons and events of that mythic age;" and "that Macpherson had used many such poems in his work, but by joining separate pieces together, and by adding a connecting narrative of his own, had woven them into longer poems, and into the so-called epics." The Dean's collection affords a fair specimen of the poetic literature in the Highlands of Scotland before the fall of the Lords of the late, and the introduction of the principles of the Reformation. Ref. The Highlanders of Scot-

GAFF

1285

in the Highlands of Scotland before the fall of the Lords of the Liels, and the introduction of the principles of the Reformation.—Ref. The Highlanders of Scotland; their History, Origin, and Antiquities, by W. F. Skene, 1837. Also, Mr. Skene's Introduction to the Book of the Dean of Lismore, 1862.

Gasta, gad-ai'(a), a fortified seaport-town of S. Italy, prov. Caserta, at the end of a peninsula, on the W. shore of the kingdom, forming the N. W. houndary of the guif to which it gives its name; 4 m. S. W. of Mola di Gasta, 41 N.W. of Naples, and 72 S.E. of Rome. The town is regarded as one of the keys of S. Italy, being strong from its natural position, which art has taken advantage of. Its port, which has 7 fathoms water, though not the largest, is one of the safest and best in Italy. G., situated in a beautiful tract of country, is the centre of a considerable trade. This place is very ancient. It became the residence of many Roman patrician families; and Cicero was put to death, by order of Anthony, in its immediate vicinity. After the fall of the W. empire, it had a republican form of government, at the head of which, however, was placed a duke, acknowledging the temporal suzerainty of the Pope. In 1435, it was taken by Alfonso V. of Aragon; and since then belonged to the crown of Naples until 1860. In modern times G. has been repeatedly besieged; the last siege of note was in 1806, when it fell into the hands of the French. In Nov., 1860, it withstood a siege of several weeks (as the last steroghold of Francis II. king of Naples, who had

in 1806, when it fell into the hands of the French. In Nov., 1800, it withstood a siege of several weeks (as the last stronghold of Francis II., king of Naples, who had sought refuge within its walls) by the national troops commanded by Gen. Claidini. Pop. 17.978.

Gaëta. (Guif of.) an inlet of the Mediterranean Sea, lying in Lat. 41° N., Lon. 13° 40° E.

Gaffer, n. [A. 8. gefer, a companion; possibly by abbreviation for god/ather, or grandfather.] A term of respect anciently applied to an elderly person in humble life, which seems to have degenerated into a term of familiarity or contempt.

"For gafer Treadwell told us, by the bye.

"For gaffer Treadwell told us, by the bre,
Excessive sorrow is exceeding dry."—Gay.

Gaffle, n. [A. S. gafeiuc; Dan. gaffel; Ger. gabel. Cf.
W. gaft, a fork.] An artificial spur with which cocks are
heeled when set to fight a match or main. — A steel contrivance for bending crossbows.

Digitized by GOOGIC

pole with a barbed iron head, used for spearing fish; as, a salmon-- An argaff.— Lificial tificial spur put on a cock when set to

fight. (Naut.) kind of boom (Figure 1098) employed in small ships, as yachta, cutters, &c., to extend the upper edges of those saliswhich are secured to the masts by b y ings, and which are

usually ex-

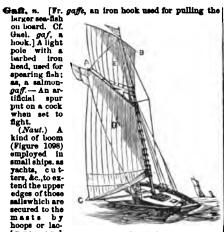


Fig. 1098. A, Gaff; B, Gaff-topsail-yard; C, Boom; D, Sheet; E, Gaff-topsail.

tended by a boom below; such, for instance, as the mainsails of sloops,

brigs, and schooners.

Gasfi-top'sail, n. (Naut.) A light sail set over a gaff, the sail being spread by it; (see Fig. 1098.)

Gasg, v. a. [A.8. ceggian, to lock, shut fast, from ceg, a key.] To stop the mouth of, by thrusting into the throat something that shall allow breathing, but prevent speaking; to silence; not to allow freedom of speech to.

To cause to retch with nauses; to superinduce an

To heave with nausea

a. Something thrust into the mouth and throat to hin-der speaking; a muzzle.— Any mouthful that causes the stomach to heave in an effort to vomit.

the stomach to heave in an effort to vomit.

Gages, or Gieas, an African tribe. See BERGUELA.

Gage, (gaij,) n. [Fr. gage; Eng. wage; L. Lat. gadium, for Lat. vadium, from vat, vadit, ball, surety.] A pledge or pawn; something laid down or given as security.

"Nor without gages to the needy lend."—Sandys.

Something thrown down as a challenge to combat, to be taken up by the one who accepts the challenge.

"There is my gage, the manual seal of death."—She Any instrument used to measure. See GAUGE.

(Naut.) The number of feet that a ship sinks in water.

—also, the position of one ship in regard to another;

as, "to have the weather-gape, or the lee-gape." Worcaster.

-e. a. [Fr. gager.] To bind by pledge, caution, or security; to engage.

To measure. See GAUGE.

—To measure. See GAUGE.

Gage, THOMAS, general, commander-in-chief of the British troops of North America, and the last governor of
Massachusetts for the English government. Shut up
in Boston after the battle of Lexington, G., whom Congress had declared a public enemy, caused martial law
to be proclaimed. After the affair at Bunker Hill, he
was forced to embark for England, where he D. 1787.

Gage, in Nebraska, a S.E. co., bordering on Kansas;
area, 864 aq. m. Ricers. Big Blue river, and some smaller
streams. Surface, diversified; soil, fertile. Cap. Beatrice.
Prop. (1887) about 44,000.

streams. Surface, diversified; soil, fertile. Cap. Beatrice. Pop. (1887) about 44,000.

Gag\*er, n. A Gaugen (q. v.).

Gag\*town, a function, a post-village of Tuscola co.

Gag\*town, a town of New Brunswick, cap. of Queen's
co., on the St. John's River, about 28 m. S.E. of Fredericton

Gagger, n. One who gags.
Gaggle, v. n. [Dut. gagelen; Ger. gackern. See Cackle.] To make a noise like a goose.

"May fat geese gaggle with melodious voice."

Gag'tooth, n. A tooth that projects.
Gag'toothed, a. Having projecting teeth.
Gah'nite, n. (Min.) A zinc spinel. Lustre, vitreous;
color, dark green to black; sp. gr. 4-4-6. Comp. Alumina 61-3, oxide of zinc 38-7. The name automolite

mina 613, oxide of zinc 387. The name audomolite was first given to this mineral from the Greek automalos, a deserter, from the fact of the zinc occurring in an unexpected place. Occurs at Franklin, N. J. Gai'ety, n. Same as Garrat, v. Gaillace, (pal'yak.) a town of France, dep. Tarn, cap. arrond. on the Tarn, 12 m. S.S.W. of Alby. Manf. Casks, hats, leather, brandy. Exp. Wines, of which good, strong-bodied, deep-colored growths are produced in the neighborhood. Pop. 8,617.

borhood. Pop. 8,617.

Gailliarde, (gal'yard,) n. [Fr. gaillarde; It. gagliarde,] A lively dance, of Italian origin. See Galliarde.

Gaily, adv. Same as Gayly, q. v.

Gailn, v. a. [A.S. gynan, gewinnan; Fr. gagner, to win, to acquire; der gewinnen.] To get as profit or advantage; to acquire; to obtain; as, to gain a livelihood.—

To obtain by superiority or success; to procure; as, to gain a name.—To receive, as honor.—To obtain or receive, as anything good or bad.—To draw into one's interest or party; to win to one's side; to conciliate.—

To reach; to attain.

"To gain the timely inn."—Sagre

" To gain the timely inn." - Shake

v. n. To have advantage or profit; to grow rich; to advance in interest or happiness. — To encreach; to ad-

vance on; to come nearer by degrees; to advance closer; to get ground.

"So on the land, while here the cosan gains.

prevail against, or have the advantage. - To obtain influence with.

"My behavior had gained on the emp

"My behavior had geissed on the emperor."—Swift.

—s. [Fr.] Profit; interest; lucre; emolument; benefit; overplus in computation; anything opposed to loss.

—[W. gan, a mortise.] (Arch.) The beveiling shoulder of a joist or other timber.

(Sailm'able, a. [Fr. gagnable.] That may be procured, attained, or reached.

(Sailmas, (gai'i-nas.) a Goth, who became a general in the Roman army under Arcadius. He put Eutropius. the favorite of that emperor, to death, also the prefect Rufinus. Causing himself to be appointed commander of the cavalry and Roman infantry, he governed the weak Arcadius. At length declared an enemy of the state, he took up arms, was defeated, and perished by the hands of the Huns, with whom he had sought an asylum, 400. lum, 400.

Gain'er, n. One who obtains profit, interest, or ad-

vantage.

vantage.

Gaines, in New York, a post-town and township of Orleans co. Pop. (1890) 2,070.

Gaines, in Pennsylcania, a post-township of Tioga co. Pop. (1890) 1,187.

Gaines/boro., in Virginia. See Bio Lick.

Gaines/borough, in Tennessee, a post-village, cap. of Jackson co., on the Cumberland river, about 73 m. E. N. E of Nashville. Pop. (1897) about 500.

Gaines/borough, in Virginia, a post-village of Frederick co., about 150 m. N. N. W. of Richmond.

Gaines Cross Roads, in Virginia, a post-village of Rappahannock co., about 120 m. N. N. W. of Richmond.

Gaines' Landing, in Arkansa, a post-village of Chicot county.

Chicot county.

Gaines' Mill (Battle or). See Chickahominy River.

Gaines' Station, in Michigan, a post-village of Genesee county.

Genesee county.

Gaimes'town, in Alabama, a post-village of Clarke co.

Gaimes'tille, in Alabama, a post-village of Sunter
co., on the Tombighee river, about 54 m. W. S. W. of
Tuscaloous. Pop. (1880) 1,017.

Gaimes'ville, in Arkansas, a post-village of Green co.,
about 105 m. N. E. of Little Rock.

Gaimes'ville, in Florida, a city, cap. of Alachua co.,
70 m. S. S. W. of Jacksonville. Pop. (1880) 2,790.

Gaimes'ville, in Georgia, a city, cap. of Hall co., on
the Chattahoochee river, 53 m. N. E. of Atlanta. Pop.
(1890) 3,202.

the Chattahoochee river, 53 m. N. E. of Atlanton (1890) 3,202.

Gaines'ville, in Kentucky, a post-office of Allen co.

Gaines'ville, in Mississippi, a post-town, cap. of Ozark co., about 70 m. E. E. of Springfield.

Gaines'ville, in New York, a post-town and township of Wyoming county, about 45 miles E. S. E. of the city of Buffalo. Pop. (1890) 2,160.

Gaines'ville, in Tezas, a city, cap. of Polk co., on M. K. & T. and G., C. & S. F. R. Rs., 285 m. N. E. of Austin; has brick and ice factories, flour and planing mills, foundry, soap and broom works, &c. Pop. (1897)

mills, foundry, soap and broom works, &c. rop. (1991) about 7,900.

Gaimes/ville, in Virginia, a post-village of Prince William co., about 35 m. W. of Alexandria.

Gainfull, & Profitable; advantageous; advancing interest or happiness; lucrative; adding to wealth or established to the prophete of the principle of of th

tate; as, a gainful purchase, gainful care.

advantageously.
Gain'fulness, n. Profit; advantage Gain ings, n. pl. Acquisitions made by labor or successful enterprise; gains.

Gain less, a. Unprofitable; not bringing advantage Gain lessness, n. Unprofitableness; want of ad vantage.

vantage.

Gain'-pain, n. [Fr. gagner, to gain, and pain, bread.]

A term formerly applied to the sword of a mercenary;

a term formerly applied to the sword of a mercenary; a bread-ginner, a bread-winner.

laimsay', v. a. [A.S. gean, ongean, against, and seggan, seegan, to say.] To contradict; to oppose in words to deny or declare untrue what another says; to controvert; to dispute. Gainsay

Speeches which gainegy one another."

Gain'sayer, n. One who denies what is alleged; an

Gains'borough, Thomas, an English landscape and poposer.

Gains'borough, Thomas, an English landscape and portrait painter, was n. at Sudbury, in Suffolk, 1727.

He grew up a lover of nature, and began early to draw and paint. About 1741 he went to London, received some instruction from Gravelot, an engraver, and Hayman, the painter, and after four years married and settled at Ipswich. In 1774 he removed to London, where he rose to the highest reputation as a portrait-painter, and was the friend and rival of Sir Joshua Reynolds. He was one of the first members of the Royal Academy. He was one of the first members of the Royal Academy. He was often careless in his drawing, and produced some of his finest effects in landscape by rough scratches and suggestions which look like chance-work. But his pieces charm by their truth to nature, their simplicity pleces charm by their truth to nature, their simplicity and purity. Among his most pleasing landscapes are, the Cottage Door, Market Cart. Two Boys and Fighting Dogs, and the Woodman. D. 1788.

Gains borough, a seaport-town of England, in Lincolnshire, on the Trent, 117 m. N. by W. of London. It is a place of considerable trade.

Gainst, prep. Contr. of Against, q. v.
Gair fowl, n. A large bird; the author penguin.

Gair fowl, n. A large bird; the suk or penguin.

Gair fah, Gar fah, a. [A.S. pedro, ready, yare, from gegyrian, to clothe, to adorn; Ger. gar, done, dressed,

ready.] Gaudy; showy; fine; affectedly fine; tawdy.
"A gairish flag." (Shake.) — Extravagantly gay; flighty.
Gair'ishly, Gar'ishly, adv. Gaudily; in a showy

manner.

Gair'ishness, Gar'ishness, n. Gaudiness; fluery;
ostentatious show.—Flighty or extravagant joy, or ostentation.

Gait, n. [A.S. gan, to go; gal, a gate or door.] A walk:
a march; a way.

"Toy kept on their gett."—Spenser.

Manner of walking or stepping.

"Great June comes, I know her by her geit." - Shale

—Manner of walking or stepping.

"Great Juno comes, I know her by her geit."—Shaks.

Gait'er, n. [Fr. gullre, a spatterdash.] A covering of cloth or leather for the lower portion of the leg and ankle, fitting closely to the shoe.—A sort of high shoe covering the ankle-joint.

—e. a. To dress with gaiters.

Gains, or Carus, (gai'yus) an eminent Roman lawyer, author of a valuable body of legal institutes, which formed the basis of the more celebrated Institutes of Justinian. The work of Caius was long lost, but a mutilated manuscript copy was discovered in 1816 by Niebuhr, and by the patient labor of several German echolars the difficult task of deciphering it was accomplished, and the work was published in 1820. Caius is supposed to have lived in the latter half of the second century.

Gains. (Script.) I. A Macedonian who accompanied Paul in his travels, and whose life was in danger at Ephesus, (Acts xix. 29.)—II. A Corinthian convert of Paul, who hospitably entertained the apostie while ishoring at Corinth, (Rom. xvi. 23; 1 Cor. i. 14.)—III. Of Derbe; an attendant of Paul from Corinth, in his last journey to Jerusalem, (Acts xx. 4.)—The third epistic of John is addressed 'to the well-beloved Gaius," whose character for hospitality comports well with that of II. above. The name was a common one wherever the Romans lived; and yet it is not certain that more than one or two different individuals of this name are spoken of in Scripture.

Gaila, Gailla. Abbreviations for gallon, or gallons.

Gaila, Gailla. Abbreviations for gallon, or gallons.

Gaila, or Galla Water, a river of Scotland, rising in the control of the service of the se

finery; Sp. court-dress, court-day. The word was introduced into Sp. from the Arab. chalaah, festive dress, a robe of honor.] A show; pomp: festivity: a fete.

Ga'la, or GALA WATER, a river of Scotland, rising in the S. of Midlothian, or Edinburghabire, and emptying into the Tweed near Galashiels.

Galac'tic, a. [Gr. gala, galaktos, milk.] Of or belonging to milk; lacteal.—Obtained from milk; lactic.—Of, or belonging to, the galaxy, or milky way; as, the galactic circle, galactic poles.

Galac'tine, n. [See Supea.] (Chem.) A milky and waxy substance obtained from the sap of the Brosmum galactodendron, or Cow-tree, of S. America.

Galac'tite, n. (Min.) [Gr. gala, milk, from its milky color when immersed in water.] Same as NATROLIVE, q.r.

Galactoden'dron, n. [Gr. gala, galaktos, and dendron, a tree.] (Bot.) See Brosmum.

Galactoph'agist, n. [Gr. gala, milk, and phagein, to est.] One who lives upon milk.

Galactoph'agous, a. Living on milk.

Galactoph'orous, a. [From Gr. gala, and pherein, to produce.] Tending to increase the secretion of milk; milk-producing.

Galactoph'orous, a. [From Gr. gala, and pointikes, capable of producing, from posien, to make, or produce.] Increasing the flow of milk.

—n. A substance that increases the secretion or flow of milk.

Galac'ga, an island in the Indian Ocean, belonging to

proportionate length; and a long and tufted tail. The best known



tail. The best known species are the Great Fig. 1099.—SENEGAL GALAGO. Galago crassicaudatus), which is as large as a rabbit; and the Senegal that Galago Senegalensis), or gum animal of Senegal, the size of a rat. They make nests in the branches of trees, and are a favorite article of food in

Senegal.

Galan'ga, Gaian'gal, n. See Maranta.

Galan'this. (Myth.) A servan'-maid of Alcmena, whose sagacity saved her mistrees great pain at the birth of Hercules, and defeated the plots of Juno. She was changed by Lucina into a weasel, and condemned to bring forth her young by the mouth, in great suffering. See ALCMENA.

Goldana Goldana or Gallinagos, a group of islands in the Pacific Ocean, abt. 200 m. W. of the coast of Peru, consisting of 7 small and 6 large islands, of which Albertana the largest, has a length of 80 m. by a breadth of 15. The whole are of volcanic formation, and abound of 15. The whole are of volcanic tormation, and account in lava deposits, interspersed with fertile cases. Tortoises and turties abound, and the islands are frequented by immense flocks of sea-birds. They are, for the most part, uninhabited, and were discovered by the Spaniards. The G. lie near the equator, between Long 89° and 92° W.

Digitized by GOOGIG

Galam'thus, s. [Gr., The Snowdrope, a gen. of plants, order Assaryllidaces. The species G. sivalis, the Snowdrop(fg. 100), is much cultivated in borders for the sake of its early and pretty blosoms. It is a bulbous plant: the flower is solitary, white, and drooping, the inner segments being greenish. It is singular that no varieties have been developed from this knowledged from this knowledged the control of the control of

Cal'antine, s. [Fr., from galantis, a bean, from galant, p l e asing.] (Ookery.) A dish of veal, or other white meat, freed from bones, tied up, boiled, and served cold.



Fig. 1100. — THE SNOWDROP.

and served cold.

Galashiels, (gdi-a-shēij',) a manufacturing town of Scotland, situated partly in the co. Selkirk, and partly in that of Royburgh, on both sides of the Gala. 27 m. S.S. E. of Edinburgh, and 5 from Melrose. It is picturesquely located, and has manufactures of woollens, flannels, blankets, plaids, stockings, shawls, and leather. Pop. (1855) 10,850.

(1895) 10,590.

Galatta, a suburb of Constantinople, q. v.

Galatta, or Galathaea, (gal'a-tc'a.) (Myth.) A seanymph, daughter of Nereus and Doris. She was pasionately loved by the Cyclop Polyphemus, whom she treated with disdain, while Acis, a shepherd of Sicily, enjoyed her unbounded affection. The happiness of these two lovers was disturbed by the jealousy of the Cyclop, who crushed his rival to atoms with a piece of rock, while he sat in the bosom of Galatsea. Galatsea was inconsolable for the loss of Acis, and as she could not restore him to life, changed him into a fountain.—

See Acis.

Calatia, (ga-la'she-a,) a country of Asia Minor, between Phryria, the Euxine. Cappadocia, and Bithynia. It received its name from the Gauls, who migrated there under Brennus, some time after the sacking of Rome. Here St. Paul's labors were successful in preaching the

Christian religion.

Here St. Paul's labors were successful in preaching the Christian religion.

Gala'siama, a. Of or belonging to Galatia, in Asia Minor.

An inhabitant or native of Galatia.

Gala'siamas, (Sr. Paul's Eristle for the New Testament, written, as is generally supposed, about the year A. D. St. It is said at the end to have been written from Rome, but this is generally believed to be incorrect. The authenticity of the epistle itself has never been called in question, and is frequently cited by the apostolic and other sarly fathers. Two journeys of the apostole and other sarly fathers. Two journeys of the apostole of Galatia are mentioned in the Acts of the Apostles, and it was probably after the second of these that the epistle was written. Shortly after his departure, Judaizing leachers appear to have come among them, preaching "another gospel" than that of Christ, and to whom they were giving heed. These teachers also endeavored to subvert the apostle's authority, by attacking his character, and asserting that he was not divinely appointed. Paul, therefore, in his epistles proceeds to controvert these errors. He vindicates his character, and asserts his drine appointment and the truth of what he had taught them, declaring that, "though we, or an angel from headen, and a headen and a few consellation to you than that which Paul, therefore, in his epistles proceeds to controvert these errors. He vindicates his character, and asserts his divine appointment and the truth of what he had taught them, declaring that, "though we, or an angel from heaven, preach any ether gospel unto you than that which we have preached unto you, let him be accursed." He then proceeds to point out the relationship of Judaism to Christianity, that they are now no longer under the law but under faith, being made the children of God through faith in Jesus Christ; and exhorts them to "stand fast, therefore, in the liberty wherewith Christ hath made us free," and not to be "entangled again with the yoke of bondage." He also exhorts them not to full the lost of the flesh; but to be led of the spirit, the fruit of which is love, joy, peace, &c. The number of commentaries on this epistle are very numerous—among which may be mentioned those of Luther, Winer, Rückert, De Wette, and Alford.

Galatima, or St. Pittro in Galatima, a town of S. Italy, prov. Otranto, 13 m. S. of Lecce; pop. 9,118.

Galatim, or Galancim, as assport-town of Moldavia, on the N. bank of the Danube, between the confluence of the Sereth and the Prath with that river, 80 miles W. of its Salina mouth; Lat. 450 247 N., Lon. 289 E. It is an ill-built, equalid place, but posseesee a good harbor, and since the opening of the trade of the Danube in 129 has become an important commercial emporium; and with Ibrail (q. v.) is the chief entrepôt of the vast; wine, skina, &c. Manuf. Soap, candies, smoked meats, flour, &c. G. has regular steam communication both with Constantinople and Vienna. Pop. estimated (127) at 80,811.

Galaxy, n. [Fr. polance; Gr. kuklois galaxas, the milky circle, from each of the part of the stand of the soul of the control of the stand of the polance of the milky circle, from each of the milky circle from each of the milky circle from each of the milk circle.

(1937) at #0,00m.
Cal'axy, s. [Fr. galaxie; Gr. kuklois galaxias, the milky circle, from gala galaktos, milk.] (Astron.) See

-An assemblage of splendid persons or things; as, a gulary of beauty or wit.

Galan'thus, n. [Gr. gala, milk, anthos, flower.] (Bot.)

The Snowdrops, a gen.

of plants, order Amaryllidaces. The species

G. nivalis, the Snowdrop(fig.1100), is much
cultivated in borders

for the sake of its
early and pretty blossome. It is a bulbous

to the surplication.

Galan'thus, SERVIUS SULPICIUS, a Roman emperor, who
was descended from the ancient family of the Sulpicii.

He was successively pratur, pro-consul of Africa, and
general of the Roman armies in Germany and Spain.

He retired to avoid the jealousy of Nero; but the
tyrant having issued an order for his death, Galba revolted against the emperor in 68, and Galba gave himself up to
the government of favorites, and he was slain by the
prestorian band, who had proclaimed Otho in his stead,
A. b. 69.

the government of involves, and no was stated, A. D. 69.

Gaiba's nums, s. [Lat.] A fetid gum-resin used in medicine, internally as an anti-spasmodic, and externally as a stimulant and discutient application to tumors and chronic awellings. It is imported from Turkey and the East Indies, and is usually met with in masses of a brownish-yellow color, more or less translucent and shining. It has a peculiar balsamic odor, and an acrid, bitter taste. It is uncertain from what plant it is derived. Species of at least 4 different genera have been suggested as its source by different writers. It is supposed to be the chelmanh of the Scriptures, and is translated gaibanum in the English Bible.

Galle, s. [A.S. gyllan, to roar; Ger. jüh, jühlings, hasty, sudden. Of. Kree, gad, a blast of wind.] A wind not tempestuous, yet stronger than a breeze; a strong current of air; a gust.

Blows you from Padua here to old Verona?"—Shaks.

—A breeze; a light current of air.

Blows you from Padua here to old Yerona ?" — Sheke.

—A breeze; a light current of air.

"Winds of gentlest gale."—Mitton.

(Nast.) When used without qualification, it signifies a vehement, tempestuous, or destructive wind; a storm of wind.

(Bot.) See Myrica.

—v. n. (Nast.) To sail rapidly; to bowl along.

Galle, in Wisconsin, a township of Trempealeau co. Pop.

(1895) 1 346.

(1895) 1,816.

(1895) 1,816.

Gaflea, n. [Lat., a helmet.] (Antiq.) A Greek helmet (Fig. 194); a light casque or head-piece; a morion coming down to the shoulders, the lower part of which was called the buccola, and the upper part the crista or crest. It was originally made of skins, though in more advanced ages, of brase or polished from.

(Bot.) The upper lip of a labrate flower (Fig. 194).

(Bot.) A genus of Echinites; same as Galeries, q.v. (Anal.) The innermost of the enveloping membranes of the fostus.

(Surp.) A kind of bandage.

Garleas, n. Same as Galleass, q.v.

Garlease, Garleare, g. [Lat. galeatus, pp. of galeare, to cover with a helmet, from galea, helmet.] Covered as with a helmet.

as with a helmet.

(Bot.) Having a flower like a helmet, as aconite.
(Zoil.) Furnished with feathers on the head, which in

ape appear as a helmet.

(20%). Furnished with feathers on the head, which in shape appear as a helmet.
Galle'ga, n. (Bot.) Same as Tephrosia, q.v.
Ga'lem, or Gale'mus, Claudius, one of the most celebrated physicians of ancient times, was born at Pergamus, in Asia, in 181. After studying philosophy and general literature, he travelled through Egypt and other countries in the Kast for the purpose of acquiring medical and anatomical knowledge. On his return, he practised four years in his native city, and then went to Rome, but was driven from thence by the intrigues of his jealous rivals, who attributed his success to magic. From Rome he returned to Pergamus; but was recalled by a special mandate of the Emperor Marcus Aurelius, who, on quitting Rome to make war on the Germans, confided to Galen the care of the health of his son Commodus. The place and time of his desth are uncertain; but he is supposed to have died at Rome, in about the 70th year of his age. A part only of his very numerous writings has been preserved; but even that part forms 5 folio volumes, and affords undoubted proofs of his practical and theoretical skill. The system of Galen, which was the first theoretical system of Medical was based on the physical decirines of Arie. proofs of his practical and theoretical skill. The sys-tem of Galen, which was the first theoretical system of medicine, was based on the physical doctrines of Aris-totle: it admitted no chemical preparations as medi-cines, but only organic substances. "The views of totle: it admitted no chemical preparations as medi-cines, but only organic substances. "The views of Galen," says Liebig, "in regard to the cause of disease and the action of remedies, were regarded during thir-teen centuries as impregnable truths, and had acquired the entire infallibility of the articles of a religious creed. Their authority only cassed when chemical sci-ence advancing made them no longer tenable. Soon after Luther burnt the papal bulls, Paracelsus burnt, at Basle the works of Galen." D. abt. 206. Galem, in New York, a township of Wayne coun-ty.

Galem, in New York, a township of Wayne county.

Gale'ma, Galemite, n. [Fr. galéne; Lat. galéne; from Gr. galénè, tranquillity.] (Min.) Native sulphide of lead crystallizes in the form of the cube and its secondaries. Lustre, metallic; color, pure lead-gray. Sp. gr. 7:26-77. Comp. When pure, sulphur 13-4, lead 80-6. It is the most abundant ore of lead, and occurs in veins and beds both in crystalline and uncrystalline rocks. Immense deposits of it exist in Missouri, Illinois, Iowa and Wisconsin. All G. contains more or less silver, and sometimes it is so rich in silver that it is worked almost entirely as an ore of that metal. Gale'ma, in Illinois, a city, the cap. of Jo Daviess co., on Fevre River, about 6 miles above its entrance into the Mississippi, and 133 miles W.N.W of Chicago. G is peculiarly built upon the slope rising from the river, many of the streets communicating with each other by flights of stairs. The city owed its former remarkable prosperity to the rich mines of lead found in the vicinity. Pop. (1890) 5,635.

Galema, in Indiana, a post-village of Floyd co., about 8 miles W.N.W. of New Albany.

—A township of La Porte co.

Gale'ma, in Maryland, a post-town of Kent co., about 30 miles E. of Baltimore.

Galema, in Missouri, a post-village, cap. of Stone co., on the James river, about 35 miles S. by W. of Springfield.

Galema, in Nebruska, a post-village of Hayes co.

Galema, in Nebruska, a post-village of Lander co., about 70 miles N. of Austin. Gold, silver, and lead are mined here.

Galema, in Ohio a post-village of Dalaware co. about 60 Galema.

here.

Galema, in Ohio, a post-village of Delaware co., about
20 miles N.N.E. of Columbus.

—A village of Scioto co. The P. O. is Rarden.

Galem'ie, Galem'ietal, a. Pertaining to, containing
or consisting of galena.—Having reference to Galen,
the physicia or to his theories as to the treatment of

diseases.
Gailenism, n. The doctrines put forth by Galen.
Gailenists, n. pl. (Eccl. Hist.) A religious sect, a
branch of Waterlandians, Mennonites, or Annhaptists,
which arose in the 17th century. Their founder was
Galen Abraham Haan, pastor of a Mennonite congregation in Amsterdam, a man of great penetration and
eloquence, who was disposed to lay much more stress
upon practice than faith, and held that all who acknowledged the divine origin of the Old and New Testament,
and led holy and virtuous lives, ought to be received into
their communion.
(Med. Hist.) A term applied to those who adhered to
the system of Galen, more particularly as opposed to
the chemical school. The former ran much upon multiplying herbs and roots in the same composition, which

(Med. Hist.) A term applied to those who achered to
the system of Galen, more particularly as opposed to
the chemical school. The former ran much upon multiplying herbs and roots in the same composition, which
they usually prescribed in the form of tinctures or extracts; while the latter dealt chiefly with mineral substances, and professed, by means of various chemical
processes or operations, to extract the virtues or essences
out of them into a very small compass.

Galemoce'ratite, n. (Min.) Same as PROSCHITE, q. v.
Galemop'sis, n. [Lat., from Gr. galiopsis.] (Bot.) A
genus of plants, order Lamiacze, including the lizar
NETILS, q. v.
Galeo'ta Point, the S.E. extremity of the island of
Trinidad, W. Indies; Lat. 10° 9' N. Lon. 60° 59' W.
Gale'ra, a river of Brazil, in the prov. of Matto-Grosso,
unites with the Guapore about 50 miles N.N.W. of Villabella. Now called the MATTO-GROSSO.

Galera, a peninsula and cape on the N.W. coast of C. J.
ombia, 28 m. N.E. of Carthagena; Lat. 10° 51' N., Lon.
75° 25' W. It bounds a small hay of the same name.

Galericulate, a. [Lat. galericulum,] Being covered,
as with a hat or other head-dress.

Gal'erites, n. [Lat. galer, a heimet.] (Geol.) A genus
of fossil sea-urchins, abounding in the chalk formation,
and from their shape popularly known as "sugar-loaves."
The shell is high more or less conical, and oblong-oval
at the buse, narrowing towards the hinder part. These
helmet-haped echinites can be found in the chalk cliffs
near Margate, England, with little trouble.

Gale'rius, Caus Valerius Maximianus, a Roman emperor. Entering the army as a common soldier, he rose
to the highest ranks by his bravery, and was adopted by
Diocletian, who gave him his daughter in marriage. He
ascended the imperial throne in 306, and p. in 311. He
was naturally of a cruel disposition, and during his
reign the Cristians suffered great persecution.

Galee, in South Dakota, a flourishing township of Aurora
county.

Galee's burgs, in Ulinois, a city, cap of Knox co. abt. 165
wits W. S. of C

Gales, in South Dakota, a flourishing township of Aurora county.

Gales' burg, in Illisois, a city, cap. of Knox co. abt. 165 miles W.S.W. of Chicago. It is the seat of two excellent colleges, and contains some handsome edifices; has a fine local trade. Pop. (1897) about 18,000.

Galesburg, in Inco., a post-village of Jasper co.

Gales's Ferry, in Consecticut, a post-village of Knian azoo co., about 130 m. W. of Detroit. Pop. (1894) 702.

Gales's Ferry, in Consecticut, a post-village of New London co., about 45 miles S.E. of Hartford.

Gales'wille, in Maryland, a small village of Anne Arundel co., on West river, about 12 miles S. by W. of Annapolis.

Gales'wille, in New York, a post-village of Washington

Annapolia.
Galesville, in New York, a post-village of Washington co., 37 miles N.E. of Albany. Now Middle Falls.
Galesville, in Oregon, a post-village of Douglas co., about 32 miles S. of Roseburg.
Galesville, in Wiccossis, a post-village of Trempealeau co., about 16 miles E. by N. of Winoma. Pop. (1895) 874.
Gale/ville, in New York, a P. O. of Ulster co.

Galia'cese, n. pl. (Bot.) An order of plants, alliance Cinchonates, consisting of 10 genera and 320 species; common weeds in the northern parts of the northern hemisphere, and also in the high mountainous districts of Peru, Chili, and Australia. The order has the followhemisphere, and also in the high mountainous districts of Peru, Chill, and Australia. The order has the following characters:— Herbaceous plants with whorled exstipulate leaves and angular stems. Calyx superior, with the limb 4-6-lobed or obsolete; corolia menopetalous, 4-6-lobed, regular; stamens epipetalous, equal in number to the lobes of corolla, and alternate with them ovary inferior, 2-celled, with one solitary erect ovule in each cell; styles two; fruit 2-celled, indehiscent, with one erect seed in each cell; albumen horny. The Galiace are chiefly remarkable for the presence of a coloring-matter in their roots. (See RUBLA.) Some have valuable medicinal properties.— See Galium.

Galiacino, an island of British N. America, in Queen Charlotte's Sound, Lat. 519 '9 N., Lon. 1280 '2 W.

Galicino, a prov. of Spain, at the N.W. extremity of the Iberian peninsula, lying between Lat. 41° 52' and 42° 41' N., and between Lon. 7° 11' and 9° 14' W. It is bounded N. and W. by the Atlantic, S. by Portugal, and E. by the Spanish provs. of Leon and Asturias. Area, 15,897 sq. m. Desc. The country is in general very moundification.



tainous, being intersected by the branches of the Asturian mountains, which separate at the Sierra de Peñamarella, and form three ranges running W.S.W. and S.S.W. and S.S.W. and S.S.W. and S.S.W. and there are serviced here and there. Rivers. Minho, Sil, and Ulla. The coast of G., especially on the W. side, is abrupt and much indented, forming numerous capes and bays. Of the former, capee Ortegal and Finisterre are best known; of the latter, the bays of Ferrol, Corunna, Betanzoa, Pontevedra, and Vigo. Ciss. Moist, but healthy. Prod. Wine, wheat, maize, barley, flax, and potatoes. The sweet chestnut grows abundantly, and may be justly called the bread of the Galicians, as it constitutes their common and favorite food. Min. Copper, lead, tin, animony, white marble, and jasper. Mans. Coarse woolens, lineus, and sail-cloth. Anchovy fishing is extensively engaged in. The Galicians are esteemed the most obnest and industrious of the Spanish peoples, and make tainous, being intersected by the branches of the Asturian sively engaged in. The Galicians are esteemed the most honest and industrious of the Spanish peoples, and make the best soldiers in the Spanish army. Language. Old Castillan, mixed with Low Latin. Ph. Div. G. is subdided into 4 provs. viz., Lugo, Corunna, Orense, and Pontevedra. Chief Towns. Corunna (the cap.), Santiago de Compostela (the ancient cap.) Pro. (1895) 2.001.500. Fallicia and Lodomeria, (pa-lish'ya.) (Kingsom or,) a province of the Austrian empire, forming its N.E. portion, between 47° 10′ and 50° 50′ N. Lat., and 18° 50′ and 26° 30′ E. Lon. The name Galicia is derived from the Polish Halicz, as Lodomeria is from Wladimir, both being ancient principalities, forming a part of the presented.

and 26° 36' E. Lon. The name Galicia is derived from the Polish Halicz, as Ledomeria is from Wladimir, both being ancient principalities, forming a part of the present prov., which also includes the territories of Poland which fell to Austria in the various partitions of that country, and the Bukowina, ceded by the Turks in 1774. This prov. Hes to the N. of the Carpathian Mountains, which separates it from Hungary; on the N W. it is separated from Prussla, the State of Cracow, and a part of the kingdom of Poland, by the Vistula; on the N. and N.E. it is open, and has no well-defined boundary; the east frontier towards Volhynia is formed by the river Podhorce, emptying into the Dniester. A range of heights divide the Bukowina from the Turkish part of Moldavia. Area, Including the Bukowina, 34.367, sq. m. Surface. Mountainous in the S., hilly in the centre, and in the N., and most extensive portion, a continuous plain. Rivers, &c. Vistula, San, Bug, Pruth, Dniester, &c.; innumerable ponds or small sheets of water chequer the face of the country. Soil. On the whole, very fertile. Prod. Cereals, polatoes, fax, and hemp. Agriculture is the principal source of wealth, and cattle-breeding is also extensively pursued. Min. Gold, silver, irou, coal, lead, zinc, marble and alubaster, rock-crystal, and several varieties of precious stones. Sult is found in almost inexhaustible quantities. Manuf. Woollens, cottons, glass, salt, &c. Unief towns. Lemberg (cap. of Galicia), Czerowite (cap. of Bukowina), Samborz, Wismeiz, Stanislawów, &c. Prop., including the Bukowina, 6,548,844.

Galiefan, (pa-lish'yan,) a. [Sp. paliciano.] (Geog.) Pertaining to Galicia, a prov. of Spain, or to Galicia, a kingdom of the Austrian empire.

—n. A native of Spanish Galicia. (Galligan is also used.)

Galligmeri, Josh Anymony, and William, brothers, were E. in London in 1796 and 1798 respectively. They are well known as the proprietors and directors of the English dvily newspaper issued at Paris under the title of Galignani's Messenger, and as the being ancient principalities, forming a part of the pres

at Paris in 1800. After his decease, in 1821, the Messer, ger assumed, under the management of his sons, a more important position. The principal object of this well-known journal is the advocacy of cordial relations be-tween France on the one hand, and the English-speaking nationalities on the other. The brothers G. support at their own expense an hospital in Paris for distressed and invalid Englishmen. John died 1873; William died 1882.

invalid Englishmen. John died 1873; William died 1882. Genille'am, n. [Lat. Galilsus.] (Geog.). A native or inhabitant of Galile, a city of Judea.

(Eccl. Hist.) One of an ancient Jewish sect named after Judas the Gaulonite, who resisted the Roman tax established by Quirinus, and rebelled at various intervals, till Jerusslem was destroyed by Titus, A. D. 70. Eliazar, the grandson of Judas, after the capture of Jerusalem, retired with 960 followers to a strong fortress, where they were exterminated.—Christ and his disciples were also called Galileans. (Matt. xxvi. 69, and Mark xiv. 70.) xiv. 70.)

Belonging or having reference to Galilee.

—a. Belonging or having reference to Galilee. Galilean telescope. See Talkscope. Galilee, (gdl\*etč.) [Heb. galil, a circle or circuit.] The name originally applied to a district in the N.E. of Palestine, and N. of Samaria, divided into Upper and Lower Galilee. The former, which included the half-tribe of Manassoh, bore the name of "Galilee of the Gentiles." so called, it is presumed, because it contained the descendants of many of the natives whom the tribe had saved from the savord when taking possession of their country. The other half was situated on the farthest northern verge of Judea, was flat, fertile, and productive, yielding corn, oil, and fruits, and was peopled by the tribes of Asher, Zebulun, Naphtali, and Issachar. G. was bounded on the N. by Syria, and the mountains of Lebanon; on the S. by Sumaria; on the E., by the Jordan; and W., by Phenicia and the Mediterranean. As the cradle of Christianity, this is perhaps the most interesting spot in the East, if not in all the world. Here was situated Nazarcth, where Jesus was reared and educated; the Jordan, where he received baptism, and on so called, it is presumed, because it contained the

whose banks he began his ministry; here lay Cana, where the first miracle was performed; there nestled Capernaum, in a little bay of the Lake Tiberias, where he raised the young man to life; farther, the hills on whose side he delivered the exhortation called the Sermon on the Mount. Various Tables when his distributions is a simple of the Mount. there newtled mon on the Mount. Yonder, Tabor, where his disciples saw the mystery of his Transfiguration. In fact, every mile of its land and coast bears the deathless footprints of the Redeemer's journey on earth. The natives of this somewhat remote prov. were held in great contempt by the Jews of the rest of the country, both of Judea and Israel, on account of their ignorance and simplicity— being, in fact, a colony of fishermen, simple in their na-ture, and hardy and honest in their lives; indeed, to mark ture, and hardy and honest in their lives; indeed, to mark their contempt of the new devotion, the Jews called all the followers of Christ, and of his doctrine, by the contemptuous name of Galileans. Galilea, at the present day, forms a part of the govt. or pashalik of Daniascus, and is infested by Bedouins and hordes of robbers. Galfilee, (Sza or.) or Lake of Tiberias, a lake of Palestine, formed by the kiver Jordau, which flows into it. It was early renowned for the sweetness and coolness of its water, and is described by Josephus as being



 $m{K}g$ . 1101. — Sea of Galilee, from the n.w. coast. (With Magdala and Tiberias.)

100 furlongs in length by 40 in width; it is also called in Scripture the Sea and Lake of Kinnaeth, and the Lake of Genesareth.—See TIBERIAS.

"The Assyrian came down like the wolf on the fold, And his cohorts were gleaming in purple and gold; And the sheen of their spears was like stars on the sea, When the blue wave rolls nightly on deep Gattes."—By:

Gal'ilee, n. (Arch.) A porch or chapel at the entrance of an abbey church, designed for the congregation of religious bodies after a ceremony or procession; for the reception of the dead previous to interment; and, in some cases, for the use of women, who were not allowed to advance further into the church than the second pillar

advance further into the church than the second pillar of the nave.

Gal'ilee, in Fennsylvania, a post-office of Wayne co.

Gal'ile'i, Galleo, the illustrious astronomer, mathematician, and philosopher, was the son of a Florentine nobleman, and was s. at Piss, in 1564. He was intended by his father for the medical profession; but his love for mathematical studies was so decided, and his aversion for medical studies so strong, that he was allowed to pursue the former, which he did with such unwearied diligence, that at the age of 24 he was appointed mathematical professor at Piss. There he was constantly engaged in asserting the laws of nature against the scholastic philosophy, which raised up such a host of enemies against him, that, in 1592, he was obliged to resign his professorship. He then went to Padua, where he lecprofessorship. He then went to Padua, where he lectured with unparalleled success, and students flocked to hear him from all parts of Europe. After remaining there 18 years, Cosmo III. invited him back to Piss, and soon after called him to Florence, with the title of prin-cipal mathematician and philosopher to the grand-duke. G. had heard of the invention of the telescope by Jansen; and making one for himself, a series of most important astronomical discoveries followed. He found that the moon, like the earth, has an uneven surface; and he moon, like the earth, has an uneven surface; and he taught his scholars to measure the height of its mountains by their shadow. A particular nebula he resolved into individual stars; but his most remarkable discoveries were Jupiter's satellites, Saturn's ring, the sun's spots, and the starry nature of the Milky Way. The result of his discoveries was his decided conviction of the suit of his discoveries was his decided conviction of the truth of the Copernican system; though the blind and furious bigotry of the monks charged him with heresy for it, and he was twice persecuted by the Inquisition, first in 1615, and again in 1633. On both occasions he was compelled to abjure the system of Copernicus; but it is said that in the legislations when he had repeated was compelled to adjure the system of Copernicus; our it is said that, in the last instance, when he had repeated the abjuration, he stamped his foot on the earth, indignantly muttering, Yet it moves! In the following year, when he was 70 years old, and his health was declining, a very heavy blow fell on him by the death of his beloved daughter, Maria, who would have sweetly soothed him in his coforced retirement. Two years later he he him in his enforced retirement. Two years later he be nim in his chiorcea retirement. Two years later he be-came blind. He bore this affliction, to him of unusual severity, with great patience. His latter years were spent near Florence, devoting himself to the perfecting

of his telescope. He died in 1642, aged 78, the year in which Newton was born. The greatest work of G. is the Dialogue on the Operation and Ptolematic Systems. Among his others are Dialogues on Mation, Systems. Nuncius, Treatise on the Sphere, &c. See G. and the Roman Curia, von Gebler, translated by Sturge, (Lon. 1879.) islimantians, (gali-matient), "Fr. Silly talk; non-sense; gibberish; a medley of unmeaning language.

"Her dress, like her talk, is a galimatics of several countries

Gal'ingale, n. [See Galangal.] (Bot.) A name often applied to the tubers of the whole plant. Gal'ion, in Ohio, a the tubers of Cyperus longus, and sometimes

fine city of Crawford co., about 58 m. N. by E. of Columbus.

by E. of Columbus Pop. (1897) 7,200. Gal'iot, n. [Fr. gali-ote, dim. of galère, a galley.] (Naut.) A Dutch vessel (Fig. 1102), carrying a main and a mizzen mast, and a large gaff-mainsail. — A gan-mainsail. — A small sort of brigan-

small sort of origan-tine, built for chase. Galipe'a, n. (Bot.) A genus of plants, order Rutaces. The species G. officinalis and cusparia yield the drug known as Quina de la Guayna, Angostura or Cus-paria Bark. They are natives of South



Fig. 1102. - DUTCH GALLOT. (Beating to windward.)

America.

Gal'ipot., n. [Fr.] (Chem.) A white semi-solid substance. It is resinous, and found as an exudation upon the pine and fir trees, especially on the maritime fir, and is found, chiefly in winter, incrusting the wounds and abrasions of the tree. It consists almost entirely of a coloriess crystallisable resin called pimelic acid.

Galita. (ga-lê'ta) an island in the Mediterranean, lying off the N. coast of Tunis; Lat. 37° 31' N., Lon. 8° 55' E. Galit'sim, Basil, a Russian nobleman, who was B. 1633, and in 1650 became minister of the Car. Eddor. Alayon.

and in 1680 became minister of the Czar Fédor Alexowitz, whom he persuaded to abolish the titles of nobility, and to let his subjects rise

and to let his subjects rise to dignities by merit. He was in great favor with the regent, Princess So-phia, sister of the czars Peter I. and Ivan, and dur-Peter I. and Ivan, and during her regency possessed supreme power. The intrigues of the regent, however, against her brother Peter being discovered, she was confined in a monastery, and Galitzin exiled. D. 1713. See Gallitzin. Gallitzin, n. [Gr. pala, milk—the flowers of one species being used for

milk—the flowers of one species being used for curding milk.] (Bot.) The typical genus of the order Galtaces. The species G. aparine is the common Goose-grass or Cleavers. The inspissated juice or extract of this plant has been used with success in been used with success in lepra and other cutaneous diseases. The extracts of G. rigidum and G. mollugo have been employed in epilepsy. G. verum (Fig. 1103), the Yellow Bedstraw, rare in New Eng. Fig. 1103.—YELLOW MEDSTRAW. land, has a slender, erect stem, 1-2 feet high, with a top of stem, showing leaves and short, opposite, leafy, un-flowers; b, c, 2 views of a flower. equal branches. The foots dye red. The flowers are used in England to curdle milk.



Gal'ivant's Ferry, in South Carolina, a post-town-Gal'Ivant's Ferry, in Soula Curotina, a post-township of Horry co.
Gall, n. [Lat. galla — probably by syncope from Gr.
baldnos, an acorn.] The Oak-apple, or Gall-Nut., q. r.
—A. S. galla; Ger. and Fr. galle.] Anything extremely
bitter.—Rancor; malignity; bitterness of mind.
(Phyriol.) The bile.—See Bile and Gall-Bladden.
—A wound caused by abrasion of the skin.
—e. a. To exceriate; to fret and wear away by friction:

-v. a. 10 excornate; to fret and wear away by friction: to hurt or break the skin or surface of anything by rubbing; as, to gall a mast.

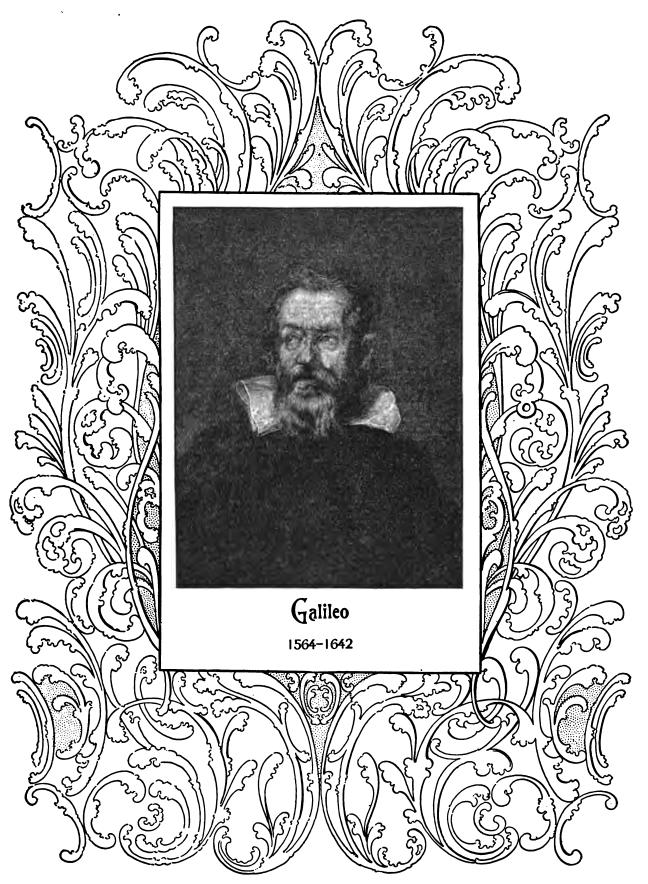
"Tyrant, I well deserv'd thy galling chain."-Pope.

To tease; to fret; to vex; to chagrin; as, a galling reply. To harass; to annoy; to injure; as, the troops advanced under a galling fire.

(Dyeing.) To steep in a decoction of the gall-nut.
n. To fret.

"I have seen you galling at this gentleman twice or thrice." Shake Gall. Francis Joseph, the founder of that celebrated intellectual or cerebral physiology known as Phrenology, B. at Tiefenbronn, in Baden, 1758. The incidents of G.'s life were not numerous, and recemble those of many other

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ropounders of new moral and intellectual doctrines in propounders of new moral and intellectual ucustimes in Germany: allenced by one government, harbored for a time by another, he became through compulsion a peri-patetic. His longest residence was in Paris, where, in conjunction with his disciple Spurzheim, he published

time by another, he became through compulsion a perjastetic. His longest residence was in Paris, where, in conjunction with his disciple Spurzheim, he published his chief works. D. 1828.—See Phernology.

Gall, (Sa.,) an Irish monk of the 6th and 7th cent., B. of a noble family, and educated at the monastery of Bangor, accompanied St. Columbs to France about 585, and took part with him in all his missionary labors. Banished from France, they went together into the wilder regions of Switzerland, and near the Lake of Constance they founded the monastery which bore the name of St. G. and gave name to the town which grew around it, and also to the canton. After a few years Columbs retired to Italy, leaving his companion abbot of the new house. St. G. D. about 646. The monastery was burnt by Hungarians in the 10th cent.

Gall, (St.,) a canton of Switzerland, in the E part of which it is situated, occupying the 14th place in the Swiss Confederation. It has E the Vorariberg and Lichtenstein (belonging to the Austrian dominious), from which it is separated by the Rhine; S.E. and S. the Grisons; W. the cantons Glarus, Schwytz, and Zurich, with its lake; and N. Thurgau and the Lake of Constance. Length, N. to S., about 40 m.; breadth varying from 11 to nearly 35 m. Area, 747 aq. m. Sarfac, greatly diversified. In the N. there is an inconsiderable porticol of plain country; but the central and S. parts are almost wholly covered with Alpine ranges, the summits of some of which rise above the anow-limitz. Mt. Schelbe, at the S.W. extremity, is estimated to be 10.188 feet above sea-level. There are, however, several extensive and fertile valleys, as that of Toggenburg (watered by the Thur, 36 m. in length), those of the Rhine, and others noted for their wild and picturesque character. Rivers, dec. Next to the Rhine, the chief rivers are the Thur, Sitter, Sers, &c.; Wallenstadt is the principal lake. Extensive forests cover the S. portion of the canton. Soil, moderately fertile. Prod. Corn, maize, hemp, and flax, fruit, &c. Ca

Gallagher, (gal'la-her,) in Pennsylvania, a township

Gallagher, (gal·la-her,) in Pennsylvania, a township of Clinton co.

Sallagherwille, in Pennsylvania, a village of Cheeter co., about 36 m. W. of Philadelphia.

Galland, Antoine, a French antiquary and Oriental scholar, s. 1646. In 1709 he was appointed professor of Arabic in the Royal College of France. G. was the first to introduce to the western world the famous Arabian Nights Entertainments, his translation of which appeared in Paris, in 12 vols., 1704-17. D. 1715.

Galland, in Lossa, a post-village of Lee co., on St. L., K. & N.W. R. R.

Galland, a. [Fr. galant; It. galante, from gala, gayety, festivity.] Manifesting intropidity or bravery; magnanimous; noble-minded; brave; daring; valorous; frank; as, a gallant soldier. — Gay; well-dressed; show; splendid: magnificent in aspect or appearance; as, a gallant show.

"The gay, the wise, the gallant, and the grave."-Waller.

"The gay, the wise, the pallant, and the grave."—Waller.

Chivairona; deferential to the fair sex; showing politeness and attention to women; as, a pallant wooer.

Gallant', s. A gay, sprightly man; a courtly or fashionable man; a man who is chivairous, polite, and attentive to ladies; one who is punctilious on the nicer points
of etiquette; one who attends upon ladies at parties or
places of public amusement; as, "travell'd gallants."

(Shakz.)—A wooer; a lover; a suitor; one who addresses
honorable court to a lady; and, in a bad sense, a paramour; a seducer; one who pays court to a woman for
base purposes.

base purposes.

"She had left the good man at home, and brought away!

-v. a. To attend or wait on, as a lady. — To manipulate with an airy, graceful manner; as, to gallant a fan. Gal'lantly, adv. Bravely; nobly; heroically; gally;

"We fought the battle gallantly."-

"We fought the battle pallantly."—Hrs. Notion.

In the manner of a woose or gallant.

Gallantmess, n. State or quality of being gallant;
gayety; chivalrousness; bravery.

Gallant, (Ports.) a harbor in the Straits of Magellan,
W. coast of Brunswick Peninsula.

Gallantry, n. [Sp. pallanteria.] Pr. galanteria.] Bravety; heroism; valor; intrepidity; boldness; courageousness; daring; ss, thanks were voted to the army for its
gallantry.

gallastry.

-Civility or courtly attention to ladies; (used in a good sense;) and, correlatively, vicious love or pretensions to

love; intrigue; lewdness; debauchery; as, a man noted for his gallasiry.

Gall'as, (Country of the,) a territory of Africa, whose savage inhabitants have occupied all the region to the 8. of Abyasinia, and seized on some of the finest provs. of that country. This territory is comparatively unknown to geographers.

Gall'atta, in Illinois, a post-office of Saline co.

Gall'attim, Alexer, an American statesman, B. in Geneva, Switzerland, in 1761, where his father was a councillor of state. His parents numbered among their connections the French finance minister Necker, and his daughter, the celeptrated Madame de Staël. In 1780 he set out for this country to assist the Americans in their struggle for independence. Boon after his arrival he was appointed to command Fort Passamaquoddy. In 1783 he, for a short time, taught French at Harvard College, and in the following year he invested his patrimonial inheritance in a large tract of land in W. Virginia. Here he formed the acquaintance of Gen. Washington. In 1780, purchasing land in Fayette co., Penna, he settled there, breame naturalized, and devoted himself to agri-culture. In 1790-1. G. became a neutre of the State. there, breame naturalised, and devoted himself to agri-culture. In 1790-1, G. became a member of the State legislature, and in 1793 U. S. senator, but some question arising as to his eligibility for senatorial honors at that time, the election was annulled. He ultimately entered Congress in Dec., 1795, and at once took up a high posi-tion, becoming the recognized leader of the (then) Rearising as to his eligibility for senatorial bonors at that time, the election was annulled. He ultimately entered Congress in Dec. 1795, and at once took up a high position, becoming the recognized leader of the (then) here publican or Democratio party. He carly took a prominent part in all questions touching the finances, and was the first to bring about the organization of the Committee of Ways and Means as a standing committee of the House. In 1801 he was appointed by President Jefferson Becretary of the Treasury, which office he held through three presidential terms, under Jefferson and Madison, till 1813. He was eminently successful in his conduct of the affairs of the treasury, and soon attained a reputation as one of the first financiers of the age. He also exercised great influence on the other departments of the government, and on the politics of the country generally. G. was opposed to the war with Great Britain in 1812, and as a member of the cabinet exerted himself strenuously to restore anincable relations with the British government. In 1813 he was one of the three commissioners appointed to negotiate peace with that power, which was effected by the treaty of Ghent, Dec. 24, 1814. In 1815 he was appointed U. S. minister to France, where he remained until 1823. In 1826 G. was appointed by President Adams envoy-extraordinary to Great Britain, where he successfully negotiated several important commercial treaties, and, returning to the United States in 18.7, took up his residence in New York city. In 1830 he was chosen president of the council of the University of New York, and, in 1831, published Congress. He passed his remaining years in retirement, devoting his time to literature, especially in its historical and ethnological Society on the Semi-civilized Nations of Mexiculary, Yucadan, and Carbrat America, with Conjectures on the Origin of Semi-civilisation in America, 1845. Died at Autoria, N. Y. 1849. See Adam's Life of G. Gal'latin, in Missenipa, a post-village of Copiah co., on Bayou Pierre,

2,235 sq. m. reserve. Jenerson, manison, Gallatin and Tellowstone rivers, besides numerous smaller streams, albeing the headwaters of the Missouri river. Surface much diversified; soil, in some parts fertile. Moun Gallatin, in this county, is about 10,000 feet high. Gol and silver are found in this county. County-town, Bozeman. Pop. (1890) 6,246.

Gal/latin, in New York, a township of Columbia co. Mount

Gallatin, in New York, a township of Columbia co.
Gallatin, in North Dakota, a post-office of Griggs co.
Gallatin, in Tennessee, a post-town, cap. of Summer co.,
about 25 m. N. E. of Nashville. Pop. (1890) 2,078.
Gallatin River, in Montana, one of the three rivers
which unite and form the Missouri; rises about Lat. 44°
N. Lon. 110° W., and after a general N. and W. course,
joins the Jefferson river at Gallatin.
Gallandet. Towns Hopkins. Lt. D., founder of the
Gallandet. Towns Hopkins. Lt. D., founder of the

Gallau'det. Thomas Hopenss, LL.D., founder of the first institution established in the U. States for the instruction of the deaf and dumb, was B. in Philadelphia in 1787. He was of Huguenot descent, and graduated at Yale College in 1805. Having been trained for the ministry, he received a license to preach in 1814, but

becoming interested in the education of eaf mutes, he was appointed to superintend the formation of an institution at Hartford, Conn., for that purpose. To prepare for this object, G. visited Europe in 1818, and after inspecting the various systems in operation among its peoples, returned to this country, bringing with him a highly-trained teacher from the Paris institution. The asylum at Hartford commenced operations in 1817, and Dr. G. continued to direct its successful course until Dr. G. continued to direct its successful course until 1830, when ill health occasioned his resignation of active duty. More than 1,000 persons were instructed under his auspices, and the Hartford institution became the his aurpices, and the Hartford institution became the parent of similar establishments throughout the country. In 1888, Dr. G. became chaplain of the Connecticut Retreat for the Insane at Hartford, which office he held till his death in 1851. Dr. G. was the author of several religious and children's books, and also edited the Annals of the Deaf and Dumb, published at Hartford in 6 vols.

nate of the best and Damo, published at Hartoru in 6 vols.

Gallaudet', or Gallaudett', in Indiana, a postvillage of Marion co., about 8 m. S. E. of Indianapolis.

Gallaway's Station, in Missouri, a former postoffice of Owage co.

Gall'-bladder, n. (Anat.) An oblong membranous receptacle attached to the under part of the liver. (Fig. 356.) It is about the size of a small hen's egg, and resembles a pear in shape. It serves as a reservoir for the 
bile, which is retained in it for future use when digestion is not going on. The cystic duct connects the gallbladder with the hepatic duct which proceeds from the 
liver, and the two united form the ductius communis 
choledochus which conveys the bile to the duodenum 
Gall-stones of the ox generally contain a peculiar yellow 
coloring-matter valued by painters. — See Bilz, and 
Gallarons.

Galle, (pdl.) in Ceylon. See Point de Galle.

Galle, (pdl.) in Ceylon. See Point de Galle.
Galleass, n. (Naut.) See Galley.
Galle'gam, Galle'go, n. (Geog.) Same as Gall-

Galle gam, traine gu, m. (1997).

Gallegos, (gal-yd'gose,) a river of Patagonia, enters the Atlantic Ocean opposite the Falkland Islands; Lat. 519 33' S., Lon. 60' W. It is small but very rapid, and at its mouth or setuary the tide rises 46 feet.

Galleom, n. [Sp. galear; It galeone. See Galler.]

(Naut.) A name given by the Spaniards to a very large kind of vessel, with three masts and three or four decks,



Fig. 1104. -- GALLEON.

such as those used by them in their commerce with 8. America, to transport the precious metals. They were large, clumsy, square-sterned vessels, having bulwarks three or four feet thick, all of which were so encumbered with top-hamper, and so overweighted in proportion to their draught of water, that they could bear very little canvas, even with smooth seas and light winds. See Molley's History of the United Netherlands.

Gal'lery, n. [Fr. galerie; L. Lat. galeria; probably



Fig. 1105. — Gallery in exeter cathedral, (england.) (Beginning of the 16th century.)
Digitized by

from A.S. vealli-ra, Ger. wallen, to walk.] (Arch.) A passage open or closed on one side, and having on the other side the doors of a series of apartments which open into it. In this sense it is synonymous with the term "corridor."—In ecclesiastical architecture, the name is given to a floor midway between the ground-floor of the building and the roof, used to obtain additional accommodation, and projecting from the walls on either side, or at the W. end, and supported on a series of columns, or on cantalevers. The G. at the W. end of a church is usually set apart for the organ and choir.—In theatres, the G. is the range of seats above the upper boxes; it affords the worst view of the stage, on account of the great height at which it is placed above account of the great height at which it is placed above it, and the sum charged for admission is, consequently, low.—The term is also applied to a large room devote to the reception of paintings, sculpture, and other works

(Nut.) The name given to the balcony that is made utside the sterns of men-of-war, and vessels of large size (Must.) The name given to the balcony that is made outside the sterns of men-of-war, and vessels of large size.

(Mil.) A covered passage, cut through the earth or masonry in a fortification, either as a means of communication, or as a position whence a muskery-fire can be maintained through loopholes. For the latter purpose, galleries are found occasionally in the counterscarpe of dry ditches, where their defenders exercise a flanking fire upon the ditch.

fire upon the ditch.

Galles, (galis) (Geog.) The French name for Wales, q. o.

Galles, (palis) (Geog.) The French name for Wales, q. o.

Galley, n.; pl. Gal'Lurs. [Fr. galère; Sp. galera; It.

galéa; L. Lat. galera, from Lat. galea, a helmet, because
formerly the prows of such vessels were decorated with
helmets.] (Naut.) A low, flat-built vessel, much used
in the Mediterranean Sea before the introduction of
steamboats. They were long and narrow, fitted with
two masts and lateen suils; and being propelled by oars
as well as by salls, they were of great use in those long
calms so frequent in the above-mentioned sea. The
largest of the common G. were about 166 feet long, 32
wide, and contained 52 oars. In the Spanish Armada,

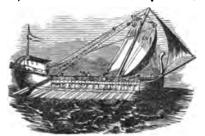


Fig. 1106. - GALLEY.

Fig. 1108.—GALLEY.

In 1588, four vessels, called galeases, were employed, which were about one-third larger than the ordinary G, and were each of them rowed by 300 galley-slaves. "They consisted," says Motley in his History of the United Netherlands, "of an enormous towering fortness at the stern, a castellated structure almost equally massive in front, with seats for the rowers amidships. At stem and stern, and between each of the slaves' benches, were heavy cannon. They were gorgeously decorated. There were splendid state apartments, cabins, chapels, and pulpits in each; and they were amply provided with awnings, cushions, streamers, standards, gilded saints, and bands of music. To take part in an ostentatious pageant, nothing could be better devised; to fulfil the great objects of a war-vessel, to sail and to fight, they were the worst machines ever launched upon fight, they were the worst machines ever launched upon the ocean." — G. (the Corinthian triremes and the dromonds of the Byzantine empire) were used during the Middle Ages by the Venetians and Genose, by whom they were introduced into France about the reign of Charles VI. (1380-1422). The first document referring to the punishment of the G. called in French Bagnes, is an ordinance of the French parliament in 1532; but criminals were most probably condemned to row in them at an earlier period. In 1564, the minmum duration of punishment at the G. was limited to 10 years. The office of captain of the G. was abolished by an ordinance of Louis XV., 1748, when the slaves were removed to work in the docks and arsenals.—The caboose or cook-house on board ship.

(Chem.) An oblong reverberatory furnace with a row fight, they were the worst machines ever launched upon the ocean." — G. (the Corinthian triremes and the dro-

retorts.
(Print.) A frame which receives the types from the composing-stick

Gal'ley Head, a headland on the S.E. coast of Ireland in Munster. co. Cork, between Ross and Clonakity bays.

Gal'ley-slave, n. A person condemned, for some crime, to work at the oar on board of a galley.

Gal'li, n.pl. [Lat.; Fr. Gaulois.] The inhabitants of

Sal'li, n. pl. [Lat.; Fr. Gaulois.] The inhabitants of Gullia, q.v.

Tal'lia, or Gaul, [Fr. Gaule.] (Anc. Geog.) A large country of Europe, of which the inhabitants were called Galli (or Gauls). (Vilia, Cilisreri, and Cilio-Scytha. Ancient Gaul was divided by the Romans into four different provs. called Gallia Belgica, Narbmennis, Aquitania, and Cilica. Besides these grand divisions, there is often mention made of Gallia Cialpina, or Cilerior; Transalpina, or Ulterior, which refers to that part of Italy which was conquered by some of the Gauls who crossed the Alps. By G. Cialpina the Romans understood that part of Gaul which lies in Italy; and by Transalpina, that which lies beyond the Alps, in regard only to the inhabitants of Rome, and now called France. G. Cispadana

and Transpadana is applied to a part of Italy con-quered by some of the Gauls, and then it means the country on the W. side of the Po, or beyond the Po, with respect to Rome. — The Gauls of the Gallia Transand Transpadara is applied to a part of Many country on the W. side of the Gauls, and then it means the country on the W. side of the Po, or beyond the Po, with respect to Rome. — The Gauls of the Gallia Transalpina seised Rome and invaded Greece at different ages. Casear has given a full account of them, and was ten years in their country before he could totally subdue them. — (For an admirable sketch of the Gauls, see the introduction to Motley's Rise of the Dutch Republic.) (Gallian in Osio, a S. co., bordering on West Virgini; area, sbt. 420 sq. m. Rivers. Ohio River, and Raccon, Symmes, and Leading creeks. Surface, hilly; soil, fertile. Min. Coal. (np. Gallipolis.
Gallians, n. See Galler.
Gallians, n. See Galler.
Gallians, n. See Galler. Of the hymenopterous insects forming the genus Cynips of Linnseus, and now the family ('ynipide. "It comprises small insects which have the head short and broad, thorax thick and oval, abdomen much compressed and attached to the thorax by a men much compressed and attached to the thorax by a

GALL

These punctures plants. cause excrescences called galls, the form and solidity galls, the form and solidity of which vary according to the nature of the plant or parts of the plant that receive the wounds, and according to the species of gall-fly that make them. The eggs introduced into the punctures increase in size, and at length hatch, and the larves feed upon the vegetable matter in which they find the meselves imbedded. With some exceptions, they unseives imbedded. With some exceptions, they un-dergo their transforma-tions within the galls, and,

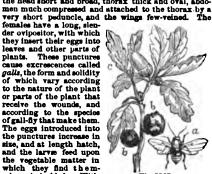


Fig. 1107. a, gall-fly; bb, gall-nuts;

dergo their transforms.

c. quawas systems.

tions within the galls, and,
gnawing through the shell, fly away. Some species
gnaw through at the end of their larval life, and enter
the ground to go into the pups state. There are members of this family which produce no galls themselves,
but are parasitic in galls produced by others; and they
are called Guest Gall-Fites." (Tinney.)—" Probably."

asys Mr. Westwood, "no insect has been of greater
benefit to mankind than the Cysips Galls tinctories,
(Fig. 1107.) the galls of which are the common gall-nuts
of commerce, growing upon the Quercus infectoria in
the Levant, and which are employed in the manufacture
of ink. The galls are of the size of a boy's marble, very
hard and round, with various tubercles on the surface;
they contain but a single inhabitant, which may often
be found in the interior on breaking the galls. Those
galls which are gathered before the insect has escaped
(and which consequently contain most astringent matter) are known in trade under the name of blace or blue
galls and green galls; but those from which the insect

(and which consequently contain most astringent mater) are known in trade under the name of black or blue galls and green galls; but those from which the insect has escaped are called white galls."

Gal'lia Furmace, in Ohio, a post-village of Gallia co., abt. 30 m. W. of Gallipolis.

Galliam'bic, a. [Lat. galliambicus, from Galli, Gallorum, a name applied to the priests of Cybele, and iambus, a foot consisting of a short and a long syllable.] (Pros.) Noting a kind of Latin and Greek verse consisting of two iambic dimeters catalectic, the last of which wants the final syllable.

Gal'liard, n. [Fr. gaillard, from gai, cheerful, lively. Allied to A. S. gapol, geagle, wanton.] A gay, brisk, lively man; a fine fellow. (o.)—A lively, brisk dance, formerly in vogue.

Gal'lic Aedd, n. [Fr. Gallique, from gall-nuts, sumach, tes, valonia, and other astringent vegetables. It is generally obtained by exposing powdered gall-nuts in a moist state to the action of the air for some weeks, in a warm place, when oxygen is absorbed and carbonic acid evolved, and the powder becomes covered with crystals of Gallic obtained by exposing powdered gall-nuts in a moist state to the action of the air for some weeks, in a warm place, when oxygen is absorbed and carbonic acid evolved, and the powder becomes covered with crystals of Gallic acid. By boiling the mass in water the G. A. is extracted, and since it is sparingly soluble in cold water, the greater portion of it crystallizes out, as the solution cools, in long silky needles. It is freely soluble in alcohol. It dissolves in sulphuric acid with a red color, and when the solution is poured into water, a red-brown precipitate is formed called rufagallic acid, used in dyeing calico red, if previously mordanted with alum. Heated to about 420°, G. A. is resolved into carbonic acid and pyr-gallic acid; the latter acid being largely used in photography.

Gallican Gallican, a. [Lat. Gallicus, or Gallicanus, from Gallus, a Gaul, from Gallia, Gaul, q. v.] Pertaining to ancient Gaul, or modern France.

Gallican Church, n. (Eccl. Hist.) The name given to the Roman Catholic Church in France, which, although in communion with the see at Rome, maintains, in some respects, an independent position. It has, from the earliest times, enjoyed certain liberties and immunities, not as grants from the popes, but as forming part of her original constitution, which she has always striven to maintain. When the Church of Rome was grasuing after temporal power, their efforts in France

of her original constitution, which she has always striven to maintain. When the Church of Rome was grasping after temporal power, their efforts in France were frequently opposed by the sovereigns, and more than one conflict was the consequence. There thus arose two parties in the French Church—those who were opposed to the encroachments of the see of Rome, and were known as the Gallican party, while the sup-porters of the Roman see were known as the Roman,

Papal, or Ultramoniane party. The earliest important manifestation of this opposition appears in the pragmatic sanction of Louis IX., issued in 1968, which made the paying of taxes to the Pope dependent on the consent of the king and the national clergy, and forbade the interference of a foreign power in the affairs of the national Church. The spirit of independence was strengthened by the decrees of the councils of Constance and Basie, which were adopted by France at the assembly of estates at Bourges in 1438, and promulgated in the pragmatic sanction of Charles VII., the fundamental law of the G. C. This placed the general council above the Pope, forbade the paying of taxes to him for appointing bishops and prelates, and abolished the annates after the death of the then living Pope. This sanction was repealed by Louis XI. in 1461, but restored by Charles VIII., and by Louis XII. through the edict of 1496. It was superseded, however, by the concordat entered into by Francis I. with Leo X., who had promised to confer upon the king greater power in ecclesiastical matters than he had hitherto enjoyed. This paction gave great dissatisfaction both to the French clears. ised to confer upon the king greater power in ecclesiastical matters than he had hitherto enjoyed. This paction gave great dissatisfaction both to the French people and the French clergy. In the reign of Louis XIV. a contest arose between that monarch and Pope Innocent XI. regarding the ecclesiastical rights of the crown, which led to the drawing up of the well-known declaration of the French clergy in 1682, which has since been regarded as the charter of Gallicanism. It was drawn up by Boseuet by order of Louis XIV., and contained the four following articles:—(1) Kings and princes are in temporal matters subject to no spiritual power, and the latter can never absolve subjects from their oath of obedience; (2) the Pope is subject to the decisions of an occumenical council; (3) the power of the Pope is further limited, as far as France is concerned, by the established prescriptions and usages of the Gallican Church; and (4) in matters of faith, also, the decisions of the Pope are not infallible when not confirmed by the consent of the whole Church. This "Declaration" was strenuously enforced by Louis XIV. It was imposed upon the universities and all public ecclesiastical bodies, and its acceptance was made a condition of appointment to offices in the Church; but it was in the same proportion distasteful to the popes. If was condamned by Alexander VIII is 1800 by Clement VI I is tical bodies, and its acceptance was made a condition of appointment to offices in the Church; but it was in the same proportion distasteful to the popes. It was condemned by Alexander VIII. in 1690, by Clement XI. in 1706, and again by Pius VI. in 1794; but both the acceptance of the articles by the French clergy, and the condemnation of them by the Roman pontiffs, are understood to be with certain reservations as to the particular doctrines. The G. C. underwent very extensive modifications at the close of the 18th and the beginning of the present century, not merely by the enactment of what was called the Civil Constitution of the Clergy, and which introduced into the constitution of the Church a large infusion of the presbyterian, and even the democratic element, but by the concordat of Plus VII., with Bonaparte as First Consul, which reduced the number of sees, brought the ecclesiastical divisions of the country into harmony with its new political distribution into departments, diminished the number of festivals, and confirmed the suppression of the ancient religious establishments, and the confiscation of the church property throughout France.

Gallice Haites, Gallicismete, n. [Ger. Gallicism. Sees.]

ITE, q. v. isal'licisme, n. [Fr. Gallicisme, from Lat. Gallicus. See SUFRA.] A French idiom; a mode of speech peculiar to the French language; as, to deliver battle, instead of to give battle; to make a walk, instead of to take a walk.

"In English, I would have Gallicisms avoided." - Felice

"In English, I would have Gallicieus avoided." — Poissa.
Galliciee, v. a. To cause to conform to the idiomatic peculiarities of the French language.
Gallicieus, Puntus Lucinus, (gall-licieus), a Roman emperor, who reigned coujointly with his father, Valerianus, for the space of seven years, and with general approval; upon the death of his father, however, A. D. 200, he gave himself up to indolence and luxury; indeed, so infatuated had he become, so wedded to a life of voluptuous case and pleasure, that the revolt of Egypt, the insurrection of the Gauls, and the irruption of the Scythians, could not rouse him from his ignoble idleness; and it was only when Posthumus assumed the purple in the West, and Ingeneus laid claim to the empire of the East, and each threatened his very existence with hostile arms, that he threw off the bonds of enervating pleasure, and, taking the field, led his legions to crush the nearest danger. The defeat and death of Posthumus, however, only increased his perplexities: new competitors arose, not only in Gaul, but in other quarters of the overgrown empire. Even the coadjutor he had adopted as the Casar, Aureolua, conspired to overthrow his patron and grasp the disputed power of sovereignty, and collecting a powerful army, shut himself up in Milan, assuming all the arrogance of sole mastery. Stung with the ingratitude of this act, C. marched at oncupon the Lombard capital, and in A. D. 288 closely invested the city, but before he could effect any perma-

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sequently passed into France, and established themselves in Aquitaine, under the title of Gascoigns, or Gascons. Gallimatia, (gal-c-ma-she'aw, n. [Fr. galimatias.] Talk without meaning; nonsense. (a.)
Gallimau'fry, n. [Fr. galima'rée, a hash composed of several different meats.] (Ookery.) A hotch-potch, or hash of several sorts of broken meat.—A medley; a jumble. jumble.

allimaufry of all other speeches." Sp "Our English tongue is a gallimenfry of all other s
—Any inconsistent or ridiculous mixture.

" A dance which the wenches say, is a galliencufry of gambols."

Gallina'ceam, n. [See above.] (Zoöl.) One of the

Gallina Ceenn, n. [See above.] (Zoöl.) One of the Gallina Ceeous, a. [Fr. gallinact; Lat. gallinaceus, from gallina, a hen, gallins, a cock.] (Zoöl.) Pertaining to the sub-order of birds Gallina.

Gallinae, n. pl. [See Sura.] (Zoöl.) A sub-order of birds, order Rusores, including all those which constitute what are commonly termed poultry, and furnishing us with the greater number of our farm-yard fowls, and with much excellent game. The name Gallinae is applied to them from their affinity to the Domestic Cock, in common with which they have generally the under mapsfills were less than the sub-order of the subing us with the greater number of our farm-yard fowls, and with much excellent game. The name Galline is applied to them from their affinity to the Domestic Cock, in common with which they have generally the upper mandible vaulted, the nostrile pierced in a large membranous space at the base of the beak, and covered by a cartilaginous scale. Their wings are short, their carriage heavy, and their flight laborious. They have an extremely muscular gizzard, and generally a large globular crop. In general they lay and incubate on the ground, on a few carelessly arranged stems of straw or grass. Some species are polygamous, and some monogamous; in the former the male is always larger and more gaily-colored than the female; in the latter the serse nearly or quite resemble both in size and color. There are four families, viz., Penclopidz, or Curassow; Myupodidz, or Mound-bird; Phasianidz, or Pheasant; and Predicidz, or Quail.
Galliam'go, n. (Zool.) See Suip.
Galliam'go, n. (Zool.) See Suip.
Gallimgper, n. A large kind of mosquito.
Gallinipper, n. A large kind of mosquito.
Gallinipper, n. A large kind of mosquito.
Gallinipper, n. (Zool.) See Rallina.
Galling'eii, (anc. Callipolis,) a fortified seaport-town of S. Italy, prov. Lecce, on a rocky islet on the E. coast of the Gulf of Tarento, 49 m. 8.E. of Tarento, and 28 W.S.W. of Otranto. G. is connected by a bridge with the mainland, on which is its suburb Lizza. G. displays an air of great industry, if not of affinence, and is the most frequented of all the ports on the S.E. coast of Walch, a seaport-town of Turkey in Europe, prov. Rounella, cap. of a sandjak, on a headland called the Braccio di Gallipoli, at a point where the Hellespont unites with the sea of Marnora, 90 m. 8. of Adrianople, and 128 W. by 8. of Constantinople; Lat. 40° 24′ 30″ N., Lon. 20° 39′ 45″ E. Its harbor is frequently a rendezvous of the imperial facet, and is the chief station of the capitan-pasha. Mansaf. Cottons, silk, earthenware, and the best Morocco leather made in Turkey. In 1854 a portion

stationed here.

Gallip'eli-eil, n. (Com.) The name given to an inferior clive-oil of Apulia, from its being mostly shipped

ferfor olive-oil of Apulia, from its being mostly snipped at Gallipoli.

Gallipoli, (Peminsula of.) a tongue of land separating the Hellespont from the Egeau Sea and the fulf of Saros, 62 m. long, by a varying breath of from 4 to 12 m. Lat. between 40° 38 and 40° 38′ N., Lon. between 20° 10° and 27° E.

Gallipolis (gall-poliss'), in Ohio, a flourishing city, capital of Gallia co., on the Ohio river, about 108 m. S.S.E. of Columbias. Pop. (1897) about 5,000.

Gal'lipot, s. [Du. klei, clay, and pol, pot.] A small vessel of potter's clay, painted and glazed, used for containing medicines. (Spolled also Galipor.)

Gall'litain, Galitzin, Galizin, or Goltzin, the patro-

vessel of potter's clay, painted and glazed, used for containing medicines. (Spelled also Galifor.)

Gal'litzim, Galifizin, Galifizin, or Golifizin, the patrophysic of a princely Russian family, of whose more eminent members were the following: — Vasili III., surnamed the Grazi, B. 1633. After fighting against the Turks, Crim Tartars, and Cossucks, of which latter people he was made hetman, he assisted in bringing about the great reforms of the Czar Feodor Alexievitch, and promoted after his death the ambitious designs of Sophia against her brother, Peter the Great, fell with her, and was banished to Siberia in 1633, where he died.—

MERLI, B. 1675, served under Peter the Great in his various campaigns, defeated the Swedes at Dobry, in lithuanis, in 1708, and fought at Pultowa, obliging the remnants of the Swedish army to surrender a few days afterwards, (1709.) He was then made governor-general of Finland, appointed a field-marshal by Catherine I., and D. in Moscow, 1730.—ALEXANDER, son of the above, 1:118. served under Prince Eugene on the Rhine, 1733, fought in the Seven Years' War, commanded a Russian army on the Dniester in 1768, took Khotin, and D. 1788, Gallit'zim, in Pennsylcania, a post-borough of Cambria co. 3 m. N.E. of Cresson. Pop. (1891) alout 2,450. Gal'liwat, a. [Du. galei, a galley, and vat, a vessel.] (Nust.) A small vessel used on the Malabar coast.

Gall'unat, n. (hem.) An excrescence produced by the cynips or Gall-Flr, q. r., which deposits its eggs in the tender shoots of the Quercus infectoria, a species of oak abundant in Asia Minor. The best G. are imported from Aleppo and Smyrna. G. contain gallic and tannic acid. The infusion of G. affords a dense white precipi-

tate in a solution of gelatine, and a black precipitate with the salts of the sesquioxide of iron. The latter property leads to the use of G. in making ink and black dye. The tannic acid renders them valuable for tanning, and they are also used in medicine as astringents. — Affections or diseases of any plants caused by the puncture of insects. They are produced by an excessive deposit

of insects. They are produced by an excessive deposit of cellular tissue.

Gallom, n. [Sp. galon; L. Lat. galo, galona, from gelo, an earthen vessel with a narrow neck and handles, for holding wine; Fr. galon, a grocer's box.] A liquid or dry measure of four quarts, or eight pints. The Imperial G., the standard British measure both for dry and liquid articles, contains 10 lbs. avoirdupois weight of distilled water (weighed in air at the temperature of 8% of Enhandles's therepareter the harmoneter the hearth of the standard British measure of the standard British measurements are the beautiful the standard British measurements. distilled water (weighed in air at the temperature of 85° of Fahrenheit's thermometer, the barometer being at 30 inches), or 277-274 cubic inches. The G. of the United States is the standard Winchester wine G. of 2-31 cubic inches, and contains 8-3388 avoirdupois ibs., or 58372-1754 troy grains of distilled water at 39-83 Fahrenheit, the barometer being at 30 inches. It is the legal G. in each State in which no law exists fixing a state or statute G.—The G. of the State of New York is of the capacity of 8 pounds of pure water at its maximum density, or 221-184 cubic inches.

\*\*Salloom'. n. | Fr. galon, probably from gala, pomp or

221-184 cubic inches.

Galleom', n. [Fr. galon, probably from gala, pomp or show.] A kind of close lace, made of gold or silver, or of silk only. —A kind of tape for binding hats, shoes, &c. Galloom'ed, a. Furnished or adorned with galloon.

Gal'lop, v. n. [Fr. galoper, from Gr. kalpadzein, from kalpē, a trot or gallop.] To move or run with bounds, as a horse; to run or move with speed; to ride at a galloping pace.

"We galloped towards them."

-To move very fast; to run over.

"Whom doth time gallop withal?—
-With a thief to the gallows." — Shake.

—n. [Fr. gallop.] The movement or pace of quadrupeds, particularly of a horse, by reaches, springs, or leaps. Gall'lopade, n. [Fr. galopade. See SUFAL] A sidelong or curveting kind of gallop. — A kind of dance; a

galop.

-A kind of music appropriate to the dance.

-A kind of music appropriate to the dance.
-e. n. To gallop; to move about briskly.
-To dance the galop, or gallopade.
Gallopading, n. Act of dancing the gallopade.
-a. Dancing a gallopade.
Galloper, n. A horse that gallops.
-A man who gallops, or makes great haste.
Galloping, p. a. Riding or moving at a gallop, or at great large.

Gal'loway, an extensive district of Scotland, comprising the two counties of Kirkcudentier and Wigtown (q.v.).

Gal'loway, in Alabama, a post-village of Walker co.

Gal'loway, in Alabama, a post-village of La Salle co., about 115 N.N.E. of Springfield.

Gal'loway, in Missouri, a township of Christian co.

Gal'loway, in New Jersey, a township of Atlantic co.

Gal'loway, in New Jersey, a township of the district co.

Gal'loway, in New Jersey, a township of the district co.

Gal'loway, in New Jersey, a township of the district called the Rhymss. It stretches in a S.E. direction from Port Patrick to the Point of the Mull, about 17 m.; its co. Wigtown, comprising the S. portion of the district called the Bhysss. It stretches in a S.E. direction from Port Patrick to the Point of the Mull, about 17 m.; its breadth varies from about 2 to 5 m. The Point of the Mull, the farthest S. limit of Scotlaud, in Lat. 54° 38' N., Lon. 4° 52' W., rises about 225 ft. above the level of the sea, and is bold, bleak, and striking. A light-house of the first-class, with an intermittent light, having the lantern elevated 325 ft. above the sea-level, has been erected on this headland. The view from the balcony of this light-house is very extensive, commanding the whole Isle of Man, and portions of England, Scotland, and Ireland.

and Ireland.

Galloway, s. A species of horse, not over 14 hands high, much used in the north of England, and in Scotland; probably so called because first bred in Galloway, a district of Scotland. They are hardy, spirited, easy of gait, and of great endurance.

Gallowglass, s. [Erse, galloglach, from giolla, a servant, and gleac, to fight.] Heavy-armed soldiers among the ancient Irish, and in the Hebrides.

Gallows, s.; pl. Gallowss. [A.S. galga, gealga; Gergalga; I.at. gabalus, probably identical with Ger. gabel, a fork.] A beam laid over two posts, on which malefactors are hanged; a cross; a gibbet.

"Oh! there were desolation of gaolers and sallo

—A pair of braces for the pantaloons. (Colloq.)
Gal'lows-bitts, n. pl. (Naut.) A strong frame in the centre of a ship's deck, to support spare spars when in

port.

Gal'lows-frame, n. (Steam-Eng.) The frame supporting the beam of a steam-engine.

Gallows-free, a. Exempt from the danger of being

hanged.

Galla, n. pl. [See Gall.] (Farriery.) Wounds or excoriations produced by the friction of harness.

Gall'-atome, n. (Med.) The gall-bladder (Fig. 356) is very liable to have a number of calculi formed in its very mante to nave a number of carcin formed in its cavity, from the salts in the secretion itself. These calculi, or gall-stones, are of many sizes and shapes; the majority, however, are about the size of a pea; others, again, are as large as a nut or filbert, and sometimes they are found as large as a walnut. In many cases these billiary formations never quit the bladder in which they are formed or if they do when year small. they are formed; or if they do, when very small, pass along the duct without the person being conscious of their transit. When, however, a large one, with jagged

or rough edges, gets past the neck of the bladder, and into the duct, it must proceed, and in doing so causes the patient the most acute and distressing pain—a pain which, in the first instance, seems the most difficult to account for, as it commences suddenly, is attended with a sharp, cutting sensation, and though the spot at the first stage is so circumscribed as to be apparently covered by the point of the finger, radiating pains dart from it nail directions, through and up the back. The abdomen soon participates in the disturbance, and becomes tense and tender, while the stomach, sympathizing, rejects its contents, and exhausting retchings are added to the distention and pain of the abdomen. Though the distance the calculus has to travel is so short—only a few inches—yet, owing to the narrowness and unyielding nature of the duct, the diameter of which does not exceed a crow-quill, and there being no propulsive power to urge the obstruction forward, the cause of the pain and constitutional disturbance suffered will be evident to urge the obstruction forward, the cause of the pain and constitutional disturbance suffered will be evident to all who reflect on the nature of the parts and the obstacle to be removed. The treatment in such cases as these is to relax the system as quickly as possible, allay the pain, and, if it can be effected, expand the billiary duct, by means of a hot bath, so as to allow the G.-S. to pass along and fall into the duodenum.

Gallupville, in New York, a post-village of Schoharie co, about 35 m. W. of Albany.

The co., about of m. w. of Albany.

Gall'lus, n. [Lat., a cock.] (Zoll.] A genus of birds, family Pharianide, comprising our domestic varieties of the Cock kind, and the jungle-fowl of India. It is generally admitted that the Cock was first introduced into Europe from Persia, and the very handsome Javanese wild-fowl, represented in Fig. 1108, is regarded by many natural.

many natural-ists as the origin of our dogin of our do-mestic poultry; but the Cock has been so long establish-ed throughout the Western regions, that to attempt to trace its prog-ress from its native wilds would be a useless waste of time. The Domestic Cock



Fig. 1108. - THE JAVANESE COCE. (Gallus bankivus.)

of time. The Fig. 1108.—THE JAVANESE COCK.
Domestic Cock
has his head
surmounted by a notched, crimson, fleshy substance,
called a comb; and two pendulous, fleshy bodies of the
same color, termed wattles, hang under his throat. The
hen has also a similar, though not so large nor so vividly
colored, excrescence on her head. The Cock is provided
with a sharp horn or spur on the outside of his tarsus,
with which he inflicts severe wounds; the hen, instead of
a spur, has a mere knot or tubercle. There is, in both
sexes, below the ear, an oblong spot, the interior edge
of which is reddish, and the remainder white. The feathrest arise in pairs from each sheath, touching by their
points within the skin, but diverging in their course
outwards. On the neck they are long, narrow, and floating; on the rump they are of the same form, but drooping laterally over the extremity of the wings, which
are quite short, and terminate at the origin of the tail,
the plumes of which are vertical. In the centre of the
Cock's tail are two long feathers, which fall backwards
in a graceful arch, and add great beauty to the whole
aspect of the fowl. It is in vain to offer any description
of the color of the plumage, as it is influitely varied, Cock's tail are two long feathers, which fall backwards in a graceful arch, and add great beauty to the whole sepect of the fowl. It is in vain to offer any description of the color of the plumage, as it is infinitely varied, being in some breeds of the greatest richness and clegance, and in others of the simplest and plainest hue. Except in the pure white breeds, the plumage of the C. is always more splendid than that of the hen; his apparent consciousness of personal beauty, courage, and gallantry seem never to forsake him, whether we regard his stately march at the head of his train of wives and numerous offspring, or watch him as he crows defiance to a rival. His sexual powers are matured when he is about six months old, and his full vigor lasts for about three years. The hen, if left to herself, forms a very indifferent nest; a simple hole scratched in the ground among a few bushes is the only preparation she usually makes, and she generally lays from twolve to fifteen eggs before she begins to sit upon them for the purpose of hatching. But she now becomes a model of enduring patience, remaining fixed in her place until the urgency of hunger forces her to go in search of food. During the time of her sitting she dilligently turns and shifts her eggs so that each may receive a due degree of genial warmth; and it is not until about three weeks have elapsed that the incubation is completed. The strongest of the progeny then begin to chip the shell with the bill, and are successively enabled to burst their brittle prisons. The whole family being at length emancipated, the parent leads them forth in search of food. In her natures the hen is timid; but in discharging the duties of maternity she becomes bold, and indiscriminately attacks every aggressor, watches over the safety of her young with the utmost jealousy, neglects the domands of her own appetite to divide the food she may obtain among her nursilings, and labors with untring diligence to provide them sufficient sustenance. The Cock is very attentive to h collects them together when they straggle, and seems to eat unwillingly till he sees them feeding around him.

Of late years a very useful species, called the CochinChina fowl (Fig. 1109), has been introduced into this

country, and has been extensively used to cross with the best barn-yard varictics, for the sake of ob-taining a lar-ger and more fleshy breed of domestic birds; but its extreme ugli-ness has greatly stood in the way of its being employed in that respect to the extent con templated. For all its u ngainliness, however, the Cochin-China fowl pos



Fig. 1109. - COCHIN-CHINA POWL

es some quali-ties that mu

sesome qualities that must always make it acceptable to the dairyman and farmer, namely, on account of the frequency and regularity of their laying, and the fact that they produce eggs at those seasons when few of our home varieties lay.—The ancients regarded the domestic Cock as the companion of Mars, and in heraldry he is the emblem of strife, of haughtiness, of quarrels, and of victory. It is said to have been the emblem of the ancient Gauls, who wore it on their helmets for a crest; and though the tradition does not rest on the authority of any medal or other monument, and is supposed to have been a mere play of words between Gallus, a cock, and Gallus, a Gaul, the Cock was placed, after the Revolution, on the flags and ensigns of France. — As the emblem of watchfulness, the image of the Cock was placed on the summits of church-steeples from a very early period. It is introduced by artists among the emblems of our Lord's passion, in allusion to St. Peter's sin, and for the same reason it is St. Peter's own emblem.— See Fows. Gall'lus, a friend of the great Africanus, famous for his knowledge of astronomy, and his exact calculations of eclipses.—Connelius, a Roman knight, who rendered himself famous by his poetical as well as military talents. He was passionately fond of the slave Lycoris or Cytheris, and celebrated her beauty in his poetry. She proved ungrateful, and forsook him, which gave occasion to Virgil to write his tenth eclogue. C. was a great favorite with Augustus, by whom he was appointed to rule over Egypt; but he forgot the benefits he had received, plilaged the province, and even conspired against his benefactor; for which he was banished by the emperor. This diagrace operated so powerfully upon him, that he killed himself in despair, A. D. 28. Some few fragments remain of his poetry. He particularly excelled in elegiac competent, and rested the center of the province and seven conspired against his benefactor; for which he was banished by the emperor, and raised himself to the throne. He beca himself in despair, A. D. 28. Some few irragments remain of his poetry. He particularly excelled in elegiac composition.—A Roman, who assassinated Decius the emperor, and raised himself to the throne. He became indicate and cruel, and beheld with the greatest indifference the revolt of his provinces, and the invasion of his empire by the barbarians. He was at last assassinated by his soldiers, A. D. 253.—Flavius Claudius Constantius, a brother of the emperor Julian, raised to the imperial throne under the title of Cesar, by Constantius, his relation. He conspired against his benefactor, and was condemned to be beheaded, A. D. 354.

was condemned to be beheaded, A. D. 354.
Gally, n. Same as Galler, q. v.
Gally, n. Same as Galler, q. v.
Gally, n. Similar to gall in taste: bitter.
Gall'Ay Oreek, in Arkanaa, a village of Pope co.
Galoche, (galosh',) m. [Fr., from L. Lat. galochia,—
solea Gallica, a Gallic shoe.] An overshoe; also, galters
extending from the knee, and covering the instep.
Gal'op, n. [Fr.] (Music and Dancing.) Same as GalLOPADE, q. v.
Galepar'e, or Capo di Faro, the Charybdis of the ancients. It forms the whirlpool on the outside of the
harbor of Messina, in the strait separating Italy from
Sicily. Opposite, on the Italian coast, is the rock Scylla.
Galore', a. [Erse go, with, and lear, enough.] Enough;
in plenty; abounding.

"With Hisses galors from my Katle's sweet lipe."—Orober.

With kisses galore from my Katie's sweet lips." -- Cro

"With hisses galors from my Katis's sweet lips."—Grober.
Galosh', n. Same as Galoche, q. v.
Gal'stom, a manufacturing town of Scotland, in Ayrshire, 14 m. from Ayr. Mansf. Cottons, wooliens, &c.
Prop. abt. 5,000.
Galt, (gawlt.) n. Same as Gault, q. v.
Galt, a town of prov. of Ontario, co. Waterloo, on Grand.
River, abt. 25 m. W.N.W. of Hamilton: pop. abt. 3,850.
Gal'tee, or Gal'tr, a range of mountains in Munster,
Ireland; length, from E. to W., about 20 m.
Galt'wille, in Pransylvania, a village of Lancaster co.
Gal'wam, in Illinois, a village of Perry co., about 145 m.
S. of Springfield.
Gal'wa, in Illinois, a manufacturing town of Henry co.,
on the C., B. & Q. and R. I. & Peoria R. Ra, 25 m. N. E.
of Galesburg. Has a fine local trade. Pop. (1897)
about 3,000.

Galva'ni, Alorsio (or Luigi), an Italian physiologist, celebrated as the discoverer of galvanism, was a t Bo-logna, 1737. He studied medicine under Galeazzi, whose daughter he married. In 1762 he became lecturer on

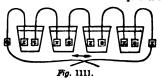
anatomy at Bologna, and obtained a considerable reputation. By experiments on frugs he discovered that all animals are endued with a peculiar kind of electricity; and he followed up this discovery with so much perseverance and success, as to give his name to a new system of philosophy, which excited universal attention. His first publication on this subject was in 1791, and entitled: Aloysis Galesani de Viribus Electricitatis is Mota Muscularis Commentarius. Upon this system the famous Volta made vast improvements. G., on the death of his wife in 1790, fell into a state of melancholy, and D. in 1798. Besides the above work, he wrote several memoirs upon professional subjects.

Galvam'ie, a. [Fr. galvanigus.] Pertaining to galvanism; containing or exhibiting galvanism.

Galvam'ie Bat'tery, n. (Phys.) The combination of a number of elements or cells each of which generates a certain quantity of voltaic or dynamic electricity. The first electro-motive apparatus or battery was constructed by Volta in 1800, and consisted of a series of diese of silver or copper, sinc and flannel, or pasteboard soaked in salt water or dilute acid. These diese were alternately laid on each other until a pile of them had been built up. (A. B. Fig. 1110.) To the metallic ends of this pile, wires, w w, were connected. With a pile of 40 or more of these alternations, a shock was felt on joining the wires, or the gold leaves of an electrometer could be diverged. Dry piles are constructed that will remain active for years. One of the best of these consists of diese of paper rubbed over on one side with peroxide of manganese, and coated on the other with thin tin or silver leaf, generally sold attached to the paper. The best of these piles are

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nese, and coated on the other with thin tin or silver leaf, generally sold attached to the paper. The best of these piles are but feeble, and the inconvenience of using them, soon led Volta to the improved modification represented in Fig. 1111. The flannel or paper in the pile is rejected, and in its place a cup of dilute acid is substituted. In each of these cups is a plate of zinc, and one of silver or copper, so connected that each silver and zinc plate is in me-



tallic communication though in separate vessels; the arrangement being zinc, scid, silver, in a continuous circuit. We will not follow the various modifications and improvements made on the simple "crown of cups," as Volta styled it, but describe some of the more important kinds of G. B. now in use. If the stripe of zinc in the cups of Fig. 1111 be first amalgamated (i. e. dipped in mercury), no action takes place so long as the zinc and copper are not connected. On joining them the acid begins to dissolve the zinc plate, and bubbles of hydrogen gas appear at the copper plate. One such cup forms a voltaic pair or ceil. The zinc is called the active plate or negative pole, and the copper the passive plate or positive pole of the ceil. Whatever connects these is called the circuit. The passive plate is often made of other substances. The current flows from the positive pole through the wire to the negative pole. A cell arranged as above described is not constant in its action; its power is constantly diminishing. Particles of sinc are precipitated on the copper plate, and the hydrogen liberated at the zinc plate adheres as a film on the surface of the copper. These actions tend to destroy the negative character of the copper. Sace's battery obviates the latter difficulty, and from its simplicity and power is in frequent use. In this battery (Fig. 1112) the negative plate, P, is of silver, coated with a deposit of finely divided platinum; on each side of this plate are fixed two plates of amalgamated sinc, ZZ, and the whole are united to a clamp and plunged in dilute sulphuric acid, about 1 of acid to 7 of water. The hydrogen cannot adhere to the platinum surface and is given of of smalgamated sinc, call sainler smaller cylinder of porous earthenware; Z is a rod of smalgamated sinc connected by the wire w with the next copper cylinder, and so on in succession. The porous tube is filled with dilute sulphuric acid, and the copper cylinders with a strong solution of sulphate of for.

wire is with the next copper cylinder, and so on in succession. The porous tube is filled with dilute sulphuric acid, and the copper cylinders with a strong solution of sulphate of copper, which is kept saturated by crystals of the salt lying on a perforated shelf. The porous partition keeps the fluids from mingling, but does not hinder the passage of the current; and the sulphate of copper in contact with the copper serves to take up the hydrogen. This is an extellent battery, and its freedom from fumes, its constancy and its power, render it invaluable in many cases for manufacturing use and scientific research. Grove's battery is constructed on the same principle. One form of it is shown in Fig. 1114. A rectangular plate of amalgamated zinc, ZZ, is bent in the form shown in the figure, and immersed in a porcelain or glass vessel, A B, filled with dilute sulphuric acid. Within the bend

of the zinc is a porous cell filled with strong nitrie acid, in which is a plate of platinum, P. The hydrogen is taken up by the nitric zicid, which it decomposes with the liberation of red fumes of nitrous acid. These irritating fumes are the greatest objection to this form of battery, which is more powerful than Daniell'a, and of compact arrangement. Bussers's battery is a modification of Grove's, in which the platinum is replaced by a cylinder of the hard coke obtained from gas-retorts. The relative value of different batteries has been estimated in various ways. The following statement shows the amount of



shard coke obtained from gas-retorts. The relative value of different batteries has been estimated in various ways. The following statement shows the amount of copper deposited from a solution of the sulphate in one hour by each of the batteries mentioned; in each case one pair of plates, exposing the same surface of xinc, was used: Grove's battery deposited 104 grains; Daniell's 33 grains, Smee's grains. Daniel's was found to have the advantage in respect to constancy. Many other forms of G. B. have been brought into use, and the slaptability to this purpose of a great variety of chemical substances have been brought into use, and the slaptability to this purpose of the G.B. is now generally called Voltaic Batters.

Gal'vaulsma, z. [From Galezai.] That branch of the science of electricity which treats of the electricity developed by chemical action. In 1789, Galvani, a professor of anatomy at Bologna, made the discovery that the slimb of a frog is convulsed when the nerves and muscles are touched with two different netals and the metals brought in contact. Upon this and similar phenomena, Galvani based his theory of "animal electricity," according to which every animal is endowed with an inherent electricity, generated in the brain, and distributed through the nervous system, the principal reservoirs being the muscles. Volta, a professor of natural philosophy at Pavia, repeated the experiment, and proved that the contractions depended not on any electrical condition of the animal frame, but on a feeble action derived from the metals with which the nerves and muscles were brought in contact. His researches led to the discovery of the pile, an apparatus which must be regarded as the source of all the great discoveries in this department of science in modern times. It, with its important modifications, is fully described under the head of Galvanic Battery. The confact theory of Volta assumes that different metals have different electrical capacities, and that electrical discurbance results from simple contact. Th trical force; that, when the chemical action of a lattery diminishes or ceases, the current diminishes or ceases, and that powerful currents may be generated without bringing dissimilar metals into contact. There are, indeed, many reasons for supposing that chemical sfinity and electricity are only modifications of the same force. The current force of the galvanic battery has been practically applied to many usoful purposes. It is employed in telegraphy (see TRLEGRAPH), and its power of converting iron bars into temporary magnets of great power is used in the construction of electro-motive engines and clocks. (See Electro-Magnetism; Electro-Magnetism; Electro-Magnetism; the engraver, the stereotyper, the calico printer, and in many other arts. (See Electro-Plating and Gliding, Electro-Plating and Gliding, Electro-Plating and Gliding, Electro-Plating and Grant many forms reotrema, Electro-Playing And Gilding, Electrotraotrema, Electro-Calloo Prayining, &c.) The current is
used as a remedial agent in the treatment of many forms
of disease, in some of which it has afforded decided relief. For its luminous effects, see Illumination. When
a strong current traversee a bad conductor, the resisting
medium becomes hot. It has been proved that for currents of equal strength, the heat developed in a wire is
directly proportioned to its resistance, or inversely as its
conducting power. When an imperfect conductor or
platinum is used, a fine wire may be raised to incandescence and even fused. If the two wires of a battery
are connected by a fine iron or platinum wire, it can be
heated at any distance from the battery, and a charge
of gunpowder fired, as in blasting or mining, while the
operator is removed at a safe distance from the explosion.

Gal'vanist, n. [Fr. galvaniste. See above.] One skilled
in the phenomena of galvanism.

Gal'vanisted Brom. (Metallurgy.) It is made by

'disl'vanisted Brom. (Metallurgy.) It is made by

Gal'vanized Iron. (Metallurgy.) It is made by coating clean iron with melted zinc. The iron is first thoroughly cleaned and then dipped in a vessel of melted zinc, the surface of which is covered with an ammoulac in order to dissolve the oxide of zinc which forms upon the surface of the melted metal, and might adhere to the iron so as to prevent its becoming uniformly coated with the zinc. The best quality is made by first depositing a thin film of the upon the iron by galvanic action; hence the name G. I.

Galvanizer, n. One who, or that which, galvanices.

Galvanologist, n. [See Infal.] One who is veried in calcada.

Galvamolfogist, n. [See Ispa.] One who is veried in galvanism.
Galvamolfogy, n. [Eng. galvanism, and Gr. logos, a discourse.] A treatise on galvanism.
Galvamomfeter, n. [Fr. galvanomftre, from galvanism; and Gr. metron, a measure.] (Electricity.) An instrument for ascertaining the presence and amount of a current of galvanic electricity. A conductor traversed by a current, and placed above a magnetic needle, but very near to it, and parallel to its axis, causes the needle

to turn to the east or west, according as the current is moving from north to south, or south to north. If the wire is placed below the needle and parallel, as before, the effect is reversed. It follows then that when the conductor passes first above and then below the needle, as to form two parallel lines between which the needle is suspended, the action of the current upon it will be similar in both case; and the force thus produced is twice as much as that produced by a single conductor. By increasing the number of colls, the action of the current upon the needle can be so increased, that very feeble currents can readily be detected. The conducting wire used must of ocures be insulated to prevent any direct metallic communication between the coils. Fig. 1115 represents the simplest form of a G. It consists of a needle poised upon a point and surrounded by one or more coils of insulated copper wire, the ends A and B being either left free or terminating in cups containing mercury for convenience in connecting with the source of the current.

cury for convenience in connecting with the source of the current. Sometimes the needle is surrounded by two separate coils of wire, through which two currents can be made to pass in different directions. The deflection of the needle then indicates the comparative strength of the two currents which are tending to deflect in it opposite directions. Such an instrument is called a differential G. A very sensitive G. has been devised having a small mirror attached vertically to the axis. Upon this mirror a beam of light is thrown, which, being received upon a screen at a distance of several feet from the instrument, greatly magnifies any deflection of the needle. This form is termed a reflecting G. The torson G. is, where the needle is brought back to its position by tor-

needs is brought back to its position by tor-sion, and the angle of its deflection me a-sured. The electro-dynamic balance measures the strength of the current by means of a sensitive steel balance, which can turn at about a hundredth of a grain. An asiatic G. consists of an astatic needle (q. v.)
placed in a coil of wire
so that the lower needle is within the coil, and the upper one above it. Its de-



coil, and the upper coe above it. Its defections are more considerable than those of a simple needle. In the tangent G. Fig. 1116, the strength of currents circulating TANGENT GALVANOMETER. In the ing are proportionable to the tangents of the angles of deviation of the needle. As the needle can never be deflected 90°, this instrument can be used to measure the strongest currents. Gare sometimes called Rheometers, from the Greek reo, I flow, and meterm, a measure.

Galva'mo-plan'sie, a. [From galvanic, and plastic, q. v.] That relates to electrometallurgy.

Galvam'escope, n. [Fr., from galvanic, and skopes, a view, from skeptesthai, to see.] (Electricity.) An instrument for detecting slight currents of electricity. Its construction is the same as that of the galvanometer, construction is the same as that of the galvanometer, the same as that of the galvanometer, and the galvanometer is detected the presence of a current, where the presence of a current, and the galvanometer is detected the presence of a current.

a view, from sieptesthai, to see.] (Electricity.) An instrument for detecting slight currents of electricity. Its construction is the same as that of the galvanometer, but, being used only to detect the presence of a current, it has no provision for measuring its strength or amount. Gal'veston, in Indiana, a post-village of Cass co., abt. 16 m. 8.E. of Logansport.
Galveston, in Texas, a 8.E. co., bordering on the Gulf of Mexico; area, about 330 sq. m., half of which is water. It embraces all of Galveston Island, a portion of the mainland between that island and Houston, extending to Clear Creek on the N., and bounded by Brazoria on the W., Galveston Bay on the 8. and E., and also by Bolivar Peninsula N.E. of the city of Galveston, and separated from it by the bay. Surface, level; soil, partially productive, vegetables being extensively raised. There are some settlements on Dickinson Bayou and Clear creek, and also on Bolivar Peninsula. Cop. Galveston. Pop. (1890) 31,476.
Galveston, a flourishing port of entry, and cap. of the

Cherrovek, and also on Rolivar Peninsula. Cop. Galveston. Pop. (1890) 31,476.
Galveston, a flourishing port of entry, and cap. of the same name, about 220 m. S.E. of Austin; Lat. 299 17 N., Lon., 94 50 W. G. is the most populous and important city in Texa, its excellent harbor affording commercial advantages second to few ports on the Mexican Gulf. It contains about 12 churches, of which the Episcopal is undoubtedly the finest edifice of its kind in the State, and show that he was gifted with great wisdom and tolerance, if not strongly inclined towards the good and tolerance, if not strongly inclined towards the good and tolerance, if not strongly inclined towards the good and tolerance, if not strongly inclined towards the good and tolerance, if not strongly inclined towards the good and tolerance, if not strongly inclined towards the good and tolerance, if not strongly inclined towards the good and tolerance, if not strongly inclined towards the good and tolerance, if not strongly inclined towards the good and tolerance, if not strongly inclined towards the good and tolerance, if not strongly inclined towards the good and tolerance, if not strongly inclined towards the good and tolerance, if not strongly inclined towards the good in the state of the most fashionable spas, and not doubt each of the was gifted with great wisdom and tolerance, if not strongly inclined towards the good and tolerance, if not strongly inclined towards the good in the states of the derivation of the German states & was allowed, and the petty dent, and shows that he was gifted with great wisdom and tolerance, if not strongly inclined towards the good in the state some of the leaf not strongly inclined towards the good in the states of the derivation of the fermi lefting the exclusive privilege of keeping such that the states of the derman states & was allowed, and the petty dent, and tolerance, if not strongly inclined towards the petty dent in the States of the property, and no doubt received from him not only a zealous enthusiant s

in (1897) abt. 34,600.--THE BAY OF GALVESTON extends.

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in (1897) abt. 34,600.—The Bay of Galveston extends. N. from the city to the mouth of Trinity river 35 miles. and is from 12 to 18 m. broad. The Island is a long strip of low-lying ground, about 3 to 4 ft. above sea-level, abt. 28 m. long, and from 12 to 35 m. broad. It was, from 1817 to 1821, the haunt of Lafitte, the notorious pirate of the Gulf of Mexico.

Galway, (gawlway,) a maritime county on the W. coast of Ireland, prov. Connaught, having 8. Galway Bay and the cos. Clare and Tipperary; E. King's co. and Roscommon; N. the latter and Mayo; and W. the Atlantic Ocean. Arca, 1,510,592 acres. Disc. The coast of the co. is deeply indented in its W. and S.W. portions by numerous bays and arms of the sea, affording fine but neglected asylums for shipping, and good, but also neglected, fahing stations.—Surface. This county presents every variety of surface and soil,—the country lying to the W. of Loughs Mask and Corrib, including the districts of Connemara, Iar-Connaught, and Joyce's Country, being one of the most rugged and wildest regions of Ireland. The other portion of the co., or that lying to the E. of Galway town and of the above-mentioned lakes, is comparatively flat and fertile.—Riverz. The Shannon (bounding the co. on the S.E.), the Suck, and the Blackwater. Prod. Wheat, oats, and potatoes: Cattle-rearing forms one of the chief features of farming economy. Min. Limestone and marbles. Manuf. Coarse Cattle-rearing forms one of the chief features of farming economy. Min. Limestone and marbles. Manuf. Coarse cluthers, and formerly considered of much importance. It is said to have been founded by Spanish rovers, and in support of this it must be stated that the domestic architecture of the older part of the town is decidedly Spanish in all its characteristics. Manuf. Coarse cloths, linears, and formerly considered of much importance. It is said to have been founded by Spanish rovers, and in support of this it must be stated that the domestic architecture of the older.

must be stated that the domestic architecture of the older part of the town is decidedly Spanish in all its characteristics. Manuf. Coarse cloths, linens, paper, and flour. Exp. Agricultural produce and fish. The harbor of G. is safe and commodious, having been much improved of late years. It was used for a time as a station for the large mail-steamers which a few years ago ran from G. to the United States. The fisheries are very valuable. Pop. (1896) 13.356.

\*\*Galway\* (gant'usay), in New York, a post-village and township of Saratoga county, about 36 miles N.N.W. of Albany.

Albany.

Gal'way or Galloway, in Tennessee, a post-village

Gal'way or Galloway, in Tennessee, a post-village of Fayette co.
Galway Bay, an arm of the Atlantic Ocean, on the W. coast of Ireland, co. of Galway, Connaught. It is about 20 m. long from E. to W., and in breadth diminishes from 18 m. at its mouth to 8 inland.
Ga'ma, Vasoo or Vasquex Dz, an illustrious navigator, B. at Sines, in Portugal, of a noble family; and to him belongs the merit of having discovered the route to the East Indies by the Cape of Good Hope. Having under his command 3 vesseis, manned with 160 marines and sailors, G. set sail, July 9, 1497; in the beginning of the next year he reached the E. coast of Africa, and holding his course straight towards the coast of Malabar, arrived in May at Calicut, a city inhabited by Hindoos, where the ruler of the country, called the zamorin, or king, had his residence. He returned to Lisbon in two years and two months from the time of his setting out; and the result of the expedition promised such great advantages, that, in 1602, he went out with 20 ships, but he was attacked by an opposing fleet on the part of the advantages, that, in 100%, he went out with 20 sinps, our he was attacked by an opposing fleet on the part of the zamorin, which he defeated, and returned the following year with 13 rich vessels that he captured in the Indian sees. John III. of Portugal appointed him Viceroy of India on the death of Albuquerque in 1624; on which India on the death of Albuquerque in 1624; on which he went there a third time, and established his government at Cochin, where he died in 1625. The Luxiad of Cameens, who accompanied G., is founded on the adventures of his first voyage. His portrait (Fig. 45) illustrates our article AFRICA.

tures of his first voyage. His portrait (Fig. 45) illustrates our article Africa.

Garma-grass, ". From Gama, a group of islands in the Maidives.] (Bot.) See TRIPACUN.

Gama-fiel, a celebrated Pharisee in the generation after Christ, a doctor of the law, and member of the Sanhedrim. He possessed great influence among the Jews, and is said by some to have presided over the Sanhedrim during the reigns of Tiberius, Caius, and Claudius. The Talmudiate say that he was the son of rabbi Simeon, and grandson of Hillel, the celebrated teacher of the law, and that upon his death the glory of the law departed. His noble intervention before the Sanhedrim saved the apostles from an ignominious death, and shows that he was gifted with great wisdom and tolerance, if not strongly inclined towards the gopel. (Acts v. 33-40.) The apostle Paul thought it a high honor to have been one of his pupils. (Acts xxii. 3,) and no doubt received from him not only a zealous enthusiasm for the Jewish law, but many lessons of candor, impartiality, and liberality. His high renown, however, among the Jewish rabbis of later ages, seems inconsistent with the tradition that he embraced Christianity.

Gamba'do, a.; pl. Gambades. [It. gemba, leg.]

Leather coverings for the legs in riding on horseback. (Sometimes called snatterdashes.)

Gamba'ds, a Britsh colony of W. Africa, at the month of the river Gambia; Lat. 130° 30′ N., Lon. 14° 40′ W. Arca. 20 sq. m. It is one of the healthiest settlements in W. Africa, and enjoys an active trude. Chief town, Bathurst.

Gamba'ds, a large river of W. Africa, traversing the

Bahama Isles, of which his father was lieutenant-governor, 1756. He went to sea at an early age, and in 1778 was appointed to the command of the Raleigh, 32 guns. In this frigate he was engaged against the French in 1781, and assisted in the reduction of Charleston, 8. Carolina. He was present at Lord Howe's memorable victory of the 1st of June, 1794, commanding the Defence, 74; and after filling various posts, was intrusted, in July, 1807, with the command of the fleet dispatched to Copenhagen. This city was bombarded for three days, when the enemy capitulated, and 19 sail of the line, 23 frigates and sloops, and 25 gunboats, were taken and conveyed to England. He was now created a baron, and in 1808 had the command of the Channel Fleet. In 1809, Lord Cochrune (afterwards the Earl of Dundonand in 1908 had the command of the Channel Fleet. In 1809, Lord Cochrane (afterwards the Earl of Dundon-dl, q.v.) who was under Lord Gambier's orders, attacked and destroyed with his fire-ships several French vessels in the inner roads of the Isle d'Aix, and Lord Cochrane was destrous of completing the destruction of the remainder of the enemy's fleet, but the commander-inchief did not consider the attempt practicable. A court-martial sat on the conduct of the latter, but he was acquitted. In 1814 he negotiated a peace with the United States of America, at Ghent; and, on the accession of William IV, was advanced to the rank of admiral of the fleet. D. at Iver, near Uxbridge, 1838. Gambbler, in Ohio, a post-village of Knox co., on the Vernon River, abt. 5 m. E. of Mount Vernon. It is the seat of Kenyon College.

Gam'bier Islands, a group in the S. Pacific Ocean, important on account of their being the only known station between Chili and Tahiti where good water can

miportaint on account of their being the only anown station between Chili and Tahiti where good water can be obtained. They are under French protection. Lat. 23° 12° 5. Lon. 134° 56′ W.

Gamn'bir, or Gambier, n. A kind of catechu. It is sometimes called pale terra japonica, and by druggists catechu in square cakes. — See Cartettu.

Gamn'bist, n. [It. gamba, leg.] (Mus.) A performer on the Viola m gamba, leg.] (Mus.) A performer on the Viola m gamba, leg.] (Mus.) A performer on the Viola m is Anna, q. v.

Gamn'bit, n. [Fr.] (Games.) In chees, a movement, of which there are several varieties, by which an advantage is tripped up. This is attempted by the first player's putting a pawn in a situation to be taken by the enemy early in the game, with a view to employ to better advantage his superior pieces.

Gamn'bie, v. n. [From game, q. v.] To play a game for money or other valuable stakes.

—e. a. To lose by gaming; as, to gamble away an estate.

Gambler, n. One who games or plays for money or other valuable stakes.

—n. a. To lose by gaming; as, to gamble away an estate. Gambler, n. One who games or plays for money or other valuable stakes.
Gambling, n. [A.S. gamian, to play at any sport. See Gaml.] Playing at games of hazard or chance for money.— Strictly speaking, gambling may be understood as gaming in its worst sense, and as implying professional play for a money stake, by men who are unscrupulous adepts at so-called games of chance. G is a vice which has been common among most nations. scrupulous adepts at so-called games of chance. G. is a vice which has been common among most nations, civilized and uncivilized. Tacitus tells us that the ancient Germans were so addicted to it, that, when stripped of everything else, they would stake at last their liberty, and their very lives; the loser going into voluntary slavery, and though much younger and stronger than his antagonist, suffering himself to be bound and sold. In Rome, particularly during the empire, the practice was common, and various enactments were made against it. In England, also, gambling was early made the subject of penal enactments. By 38 Henry VIII. c. 9, "no person shall, for his gain, ucre, or living, keep any common house, alley, or place of bowling, coyting (quolting), cloth (billiards), cayla, half-bowls, tennis, diceing-table, carding, or any unlawful game then or theresafter to be used, on pain of forfeiting game then or thereafter to be used, on pain of forfeiting 40 shillings a day;" and every person haunting or using the said houses was declared to forfeit 6s. 8d. By 9 Anne, c. 14, all bonds and other securities won at play were declared to be vold, and every person losing £10 were declared to be vold, and every person losing £10 at one time or sitting might, within three months, reat one time or sitting might, within three months, recover the same, with costs, in any court of record; and after three months any other person might sue for and recover the same, and treble the value thereof, with costs. Various statutes were subsequently enacted on this subject; and in 1845, Act 8 & 9 Vict. c. 109, was passed, which greatly facilitated proceedings against common gambling-houses. By 16 & 17 Vict. c. 119, betting-houses were declared to be within the jurisdiction of the acts against G. Other acts have since been even more artingent, but notwithstanding all these legislative enactments, there still exist in London not a few gambling-houses, which go by the appropriate name of hells. In most of the German states G. was allowed, and the petty sovereigns of several of them derived a large revenue.

gamba, the leg.] To kick about; to dance and skip about in sport; to frisk; to play in frolic.

"Bears, tigers...gambolled before them."—Millon.

To start; to leap.

And I the matter will record, which madness Would gambol from."—Shake.

Would gambof from."—Shelm.
Gamm'bol, n. A skipping or leaping about in frolic; a skip; a hop; a leap; a sportive prank.

"For who did ever play his gambols with such insuferable rambles?"—Buddbras.
Gamm'brel, n. [It. gambarcila, dim. of gamba, a leg.] The hind leg of a horse. — A stick crooked like a horse's leg, used by butchers to suspend thereon slaughtered animals while dressing and weighing them.
(Arch.) A curb-roof of a house. — See Curb-roof.
Gamm'broom, n. (Manuf.) A kind of twilled linen cloth, for lining.

Gam'brel, v. a. To tie by the leg.
Gam'brel, v. a. To tie by the leg.
Gam'brel, v. a. To tie by the leg.
Gam'breon, n. (Manuf.) A kind of twilled linen cloth, for lining.
Game, n. [A. S. gamen, joy, pleasure; — allied to Gr. komos, a revol, a merry-making.] The term applied to certain bodily exercises and mental recreations practised as a relaxation from business or study, or employed as a mode of passing the time. They are divided naturally into two classes, mental and physical, but more definitely they are distinguished as games of chance, games of skill, and mized games. In the first class the result does not depend upon the attention and dexterity of the player, but is merely determined by chance; it includes games played with dice alone, such as hazard, and many of the games played with cards, such as quinze, vingle-t-un, lansquenet, commerce, loo, &c. The second class comprehends those games which, when once begun, are independent of chance, and are gained by the superior skill and experience of one party. In many games of this kind, however, when the skill of the parties is equal, he who plays first is most frequently the winner. There are very few mental games of this class; but chess and draughts hold the highest places. It includes several interesting and popular physical games; among others, cricket, base-ball, bowling, gof, tennic, billiards, &c. In the third class the games are generally decided by chance where the players are equal, but otherwise depend much for their event on the skill and caution of the players; among the most important of these are whist, cribbage, piquet, eachre, casino, all-fours, and backgammon.

—Jest, as opposed to seriousness.

"Twixt earnest and 'twixt game."—Spenser.

'Twixt carnest and 'twixt game.' -Insolent merriment; sportive insult.

"Or make a game of my calamities."—Milto

An exercise or play for amusement or for winning a stake; as, a game of skill, a game of hazard.—Advantage at play; as, to win the game, i.e., the stake.

game was empires, and who es stakes were thro

-Scheme pursued; measures planned.

'The present game of that crowd.

-Field-sports; the chase; falconry, &c.

nen. that were abroad upon g "Some sports: -Animals pursued or taken in the chase, or in the sports

of the field. nan hearts we fling, nor ever miss the gas

"At human hearts we fine, nor ever miss the game."—Prior.
Public Games of Antiquity. (Hist.) Under this name
are generally included the contests and spectacles of
varied kinds celebrated by the ancients, which, in the
earlier ages, were connected with religious ceremonials.
The public games of the Greeks were very numerous,
and the origin of many of them is lost, on account of the
religious mystery in which they were founded. Among
the trecian games, the most celebrated were the Olympic, the Pythian, the Nomean, and the Inthmian. The
conquerors in the Olympic games were held in high respect, and were looked upon as the noblest and happiest pic, the Pythian, the Nemean, and the Isthmian. The conquerors in the Olympic games were held in high respect, and were looked upon as the noblest and happiest of men. These games were held every 5 years at Olympia, in Elis, on the W. side of the Peloponnesus. Among the exercises, some were designed to give strength, and others agility. The lighter exercises comprised running, leaping, throwing the quoit, and hurling the javelin. The more severe course of discipline included wrestling and boxing. Racing also constituted a particular feature in all the ancient games. The Isthmian games were held at Corinth, and, together with athletic exercises, horse and charlot races, constituted a large portion of the spectacle. Originally these games were connected with the worship of Noptune, the wide diffusion of which gained for them the great celebrity which they long enjoyed. The Persian war gave an impulse to the Isthmian games, while the Peloponnesian war dimmed their glory. Under the Romans, these games did not lose their importance, but were exhibited with increased celebrity. They were then held every three years, and comprised these leading divisions, — musical, gymnatic, and equestrian contests. The prize at the Olympic games was merely a chaplet of wild olive. These chaplets, together with branches of palm, which were carried in the hands of the victors, were placed on a tripod in the middle of the course, so as to be seen by all the spectators. At the Isthmian games, the prize was parsley during the mythic periods; in later times, however, the victor was generally crowned with a wreath of pine-leaves, although parsley was often employed. The anusements in the Roman circus did not differ materially from those which were celebrated in the games of aucient Greece. The Koman circus did not differ materially from those which were celebrated in the games of aucient Greece. The therismachia, or beast-fight, was a favorite species of entertainment among them; and the men employed in this barbarous amusement, in which men fought with wild beasts, were called bestiarii. The combatants were divided into two classes, — those who fought voluntarily for amusement or pay, and who were provided with weapons, — and condemned persons, who were generally exposed to the fury of the sammals naked, without arms,

and sometimes bound. The Romans were passionately fond of these beast-fights, and very large numbers of animals were engaged in them. Under Pompey, no less than 600 lions were thus destroyed; and under Titus, 5,000 wild and 4,000 tame animals perished in a similar 5,000 wild and 4,000 tame animals perished in a similar manner. There is no doubt that, although these latter exhibitions produced a debasing effect upon the minds of the beholders, the athletic games of the ancients not only improved the physical development of the people, but tended directly to advance their intellectual and moral culture. The early and long training by which they were preceded, and the exercises through which the child, the youth, and the man were conducted by successive stages, culminated at length in that union of the man were and strength in which physical perfection conbeauty and strength in which physical perfection con-sists, and in which the ancient Greeks surpassed every other known nation.

Game, v.n. [A.S. gamenian.] To play at any sport or diversion.

—To play for a stake or prize.

To practise playing for a valuable stake; to gamble.

a. Brave; resolute; courageous; as, game to the last.
Pertaining to such animals as are pursued or taken in

Pertaining we seek
the chase; — also to birds shot in battues.
Game'-cock, n. A cock bred or used to fight.
Game'-cogs, n. An egg from which a game-cock is bred.
"Thus boys batch game-aggs under birds of prey,
To make the fewls more furious for the fray."—Garth.

Built of game or games.

Game'ful, a. Full of game or games.

Game'ful, a. Full of game or games.

Game'keeper, n. One who has the care of game, and sees that it is not destroyed.

Game Laws, n. pl. (Law.) Statutes which declare what birds and beasts are to be considered game, and impose penalties on those who unlawfully kill or destroy them. The game laws of England had their origin in the ancient forest-laws, under which the killing of one of the king's deer was equally penal with murdering one of this subjects. At the present day, though considerably modified, the English game-laws are still very severe, and as the administration of these laws is in the hands of the class interested in preserving the game,

hands of the class interested in preserving the game, they are very rigidly enforced. The laws relating to game in the U. States are generally framed with reference to protecting the animals from indiscriminate and unreasonable have, leaving all persons free to take game, under certain restrictions as to the season of the year and the means of capture. The details of these regulations are the season of th lations must be sought for in the statutes of the severa

lations must be sought for in the status.

States.

Game'-leg, n. [W. gam, crooked, wrong.] A lame, stiff, or crooked leg.

Game'slems, a. Destitute of game; as, gameless preserves.

Game'some, a. Gay; sportive; playful; frolicsome.

"Though old, yet gamesome." — Sidney.

Game'somely, adv. Merrily; playfully.

Game'somely, adv. Merrily; playfully.

Game'ster, n. [Game, and suffix ster, q.v.] One skilled in games of hazard or skill; one addicted to gaming; a gambler.

"Keep a gamester from the dice." — Shaks.

One enguged at play.

One enguged at play.

"When lenity and cruelty play for hingdoms,
 "Be genticr gamester is the sconest winner." - Shaks.

Gamim., (gd-ming',) n. [Fr.] A child neglected and let
loose upon the streets; a city Arab; as, a Parisian gamin.

Gam'ing, n. The act or art of playing any game in a
contest for victory, or for a prize or stake; the practice
of gamesters. - See Gamella.

G. houses. (Law.) Houses kept for the purpose of
permitting persons to gamble for money or other valuable stakes. They are nuisances in the eye of the law,
being detrimental to the public good, as they promote
cheating and other corrupt practices.

Gam'marus, n. [Lat., from Gr. kammaros, a crab.]
(Zodl.) The Fresh-water Shrimp, a genus of AmphiPoda, q. v.

(2061.) The Fresh-water Shrimp, a genus of AMPHI-FODA, Q.v.

Gam'imer, n. [A. S. gemeder. Possibly a contraction of godmother. See GAFFER.] An old woman in lumble life.—The compellation of an old woman, answering to the word gaffer, applied to an old man; as, "Gammer Gurton's Needle," (an old English play.)

Gam'imom, n. [It. gambone, from gamba, a leg; Fr. jambon.] The leg or thigh of a hog, pickled and smoked or dried; a smoked ham; as, a gammon of bacon.—A game. usually called BACKAMMON. a. v.—An imposi-

game, usually called BACKGARMON, q. v. — An imposi-tion; a hoax. v. a. To make bacon; to cuse and dry in smoke.

(Naut.) To attach or fix, as a bowsprit, by means of

rope.
To defeat at the game of backgammon, by being able to withdraw all one's pieces from the board, and thus end-ing the game, before one's adversary has brought all his pieces into the table at his left, and has consequently had no opportunity to withdraw any pieces from the

To impose on a person, by making him believe improb

able stories; to humbus; to hoax.

| am'moming, n. The act of imposing upon a person by making him believe absurd stories.

| (Nauk.) The lashing by which the bowsprit is secured to the cut-water.

Gamopet'alous, a. [Fr. gamopétale, from Gr. gamos, a wedding, and petalon, a leaf.] (Bot.) Composed of united petals.

united petals.

Games y llous, a. [Gr. games, wedding, and phyllon, a leaf.] Formed of united leaves.

Games ep'alous, a. [Gr. games, wedding, and Fr. style, a leaf of division of the calyx.] (Bot.) Having united sepals.

Gam'ut, n. [Gr. gamma, the third letter of the alphabet, and Lat. ut, the name of a musical note.] (Mus.)

Gam'ut, n. [Gr. gamma the third letter of the sphabet, and Lat. ut, the name of a musical note.] (Mus.)

A term applied to the table or scale invented by Guide d'Arezzo, from his having adopted the gassad, or third letter of the Greek alphabet, as a sign for its lowest note, which was one note below the proximalmanaments, or lowest note of the ancients. It consisted of twenty or lowest note of the ameions. It consisted of twenty notes, vis., two octaves and a major sixth. In modern music, the term gamut signifies the diatonic scale, and is occasionally applied to the note G below the base cief. Gami'y, a. Showing fight, or struggling to the last; as, a gamy salmon.

a gamy salmon.

(Cookery.) Having the flavor of game; high-conditioned; kept until nearly tainted; as, a gamy leg of muttoe.

Gams, imp. of gis, began. (o.)

Gamsaneque', a village of prov. of Ontario, co. of Leeds, on the St. Lawrence River, about 18 miles N.K. of Kingston.

Gamela, v. a. [It. ganciare, from gancio, a hook.] To drop from a high place upon hooks by way of punishment; — a practice formerly existing in Turkey.

"Take him away, each him, impulse him." Prodes.

"Take him away, ganck him, impale him."-Dry Gan'der, n. [A. 8. gandra; Ger. günserich; L. Sax. ganter; Lat. anser; Gr. chën, chënos.] The male of the

ganter; Lat. anser; Gr. chēn, chēnos.] The male of the goose.

Gram'dia, a town of Spain, prov. Valencia, dist. Denia, on the Mediterranean, 34 m. S.S.E. of Valencia. Manf. Linens. Pop. 7,120.

Gramg, v. n. [A.S. gangan.] To go; to walk. (Used only in Scotland and the N. of England.)

"I'll gang nee mair a-rving." — Burne.

Gramg, n. [A.S., from gan, gangan, to go; D., Dan., and Ger. gang.] A number going together: — hence, a company, or a number of persons associated for a particular

Amms, n. [A.8., from gan, gangan, to go; D., Dan, and Ger, gang.] A number of going together:—hence, a company, or a number of persons associated for a particular purpose; a crew or band; as, a gang of sailors, a presegrang, a gang of miners, workmen, &c.; — and, in a bad sense, used of persons allied to a low or disreputable position; as, a gang of robbers.—A combination of tools or implements intended to cooperate in action to the saving of time, labor, &c.; as, a gang of saws.

(Mining.) See Gangue.

position; as, a gang of robbers.—A combination of tools or implements intended to coöperate in action to the saving of time, labor, &c.; as, a gang of saws.

(Mining.) See GANGUE.

Gang'-board, n. (Naul.) A plank resting on the gunwale of a boat, &c., with cleats nailed athwart for steps to insure foothold in passing ashore or on te another boat.—A plank within the bulwarks in the waist of a ship of war, on which a sentry paces to and fro.

Gang'-cassk, n. A small cask for carrying fresh water on board ships or boats.

Ganges, (gán'/£z,) the sacred stream of the Hindoca, and the principal river of Hindocatan, through the N. and E. parts of which it flows, watering its most fertile region, and extending through 13 degrees of Lon., and nearly 10 of Lat., from the central chain of the Hindoca Agra. It rises by two principal heads, the Bhagirathi and Alcanands, about Lat. 31° N., and between Lon. 79° and 80° E. The Bhagirathi, or W. branch, though neither the longest nor largest, is considered by the Hindoce as the true Ganges. Issuing about 200 m. N. N. W. of Delhi, it forms a junction with Alcananda at Deoprang, in Lat. 30° 9′ N., Lon. 78° 33′ E., after which the resulting stream assumes the name of the G., receiving as tributaries the Jumna, Goomtee, Ramgunga, and many others, and forms a delta about 200 m. from the Bay of Bengal. Of its two principal arms, which form the outermost of the whole series, the E. is the larger, and preserves the original direction of the main stream, together with the name of Ganges; but the W. arm, or Cossimbazar branch, called afterwards the Hooghly, is considered by the natives the true Bhagirathi, and invested by the matives the true Bhagirathi, and invested by the matives the rue Bhagirathi, and invested by them with the greatest portion of sanctity. The region around the mouths of the G, termed the Sunderbunds, is a pestiferious tract, covered with jungle, and swarming with tigers, and other beasts of prey. The annual inundation of the G. is owing to tropical rains which begin are sworn upon the water of the G., as the Christians and Mohammedans are sworn upon their sacred books. The G. water is believed by the Hindoos to purify from all sins; many ablutions and suicides accordingly take place in it, and the feet of the dying, when they are sufficiently near residents, are in most instances in ersed in it.

Gan'ges, in Michigan, a post-township of Allegan co., on Lake Michigan.

on Lare michigan.

Gan'ges, in Ohio, a post-village of Richland co., about
10 m. N. of Mansfield.

Gangetic, (pan-jet'ik,) a. (Geog.) Pertaining or having reference to the river Ganges, Hindostan.

Gan'gliac, Gan'glial, a. Ganglionic; pertaining to

gangilon.
Ganglion, (gang'gli-on.) n.; pl. Ganglio. [Gr. glion, a tumor under the skin, on or near sines.

modern anatomy, a nerve-knot.] (Compar. Anat.) A small rounded or elongated nervous mass, of a reddishgray color, situated in the course of the nerves. They are of two kinds, one forming part of the cranial system of nerves, and situated near the origins of many of tem of nerves, and situated near the origins of many of the cranisal and all of the vertebral nerves; the other forming part of the sympathetic system, extending in a series along each side of the vertebral column, and co-curring numerously in other parts. They differ widely in size and figure, some being large and compicuous, while others are almost microscopic. They are com-posed of two substances, one white, like the medullary matter of the brain, the other reddish-gray. The in-ternal medullary filaments are the continuation of the nerve upon which the G. is situated. A section through a G. in the direction of the nervous chords connected with it discloses to the naked eye merely a collection of reddish-gray matter, traversed by the white fibres of the nerves.

the nerves.
(Serg.) A small tumor in the sheath of a tendon, containing a semi-fluid secretion inclosed in a cyst. This cyst is sometimes loose, but generally communicating with the tendonous sheath. They sometimes form without any apparent cause, but generally arise from some wrench or tension of the tendon. They are most frequently situated about the wrist. The treatment some wrench of tension of the tendon. They are most frequently situated about the wrist. The treatment consists in rupturing the cyst, either by firm compression with the thumb, or by striking the swelling sharply with some obscure body, the part being subsequently bandaged, and rest enjoined for a few days.

Lymphatic ganglion, a lymphatic gland.

Gangilomary, a. [Fr. gangliomatire.] Consisting of ganglions; having reference to ganglions.

Gangilomic, (gangpliomic, ). Pertaining to a ganglion; as, the ganglionic nerves.

Gangpare', a small state of India, on the Bengal frontiers. It is tributary to the British, and has a fertile soil, but is ill-cultivated. Area, 2,490 sq. m. Pop. abt. 110,000.

soil, but is ill-cultivated. Area, 2,460 sq. m. Pop. abt. 110,000.

Gamgreme., (gang'grën.) n. [Fr. gangréne; Lat. gangreme; Gr. panggraina, from graß, grainō, to gnaw; Bansk. gras, to devour away the tissues.] (Med.) A term applied to the first stage of mortification. It is divided into two kinds, the moist and the dry; the former, called also inflammatory or soute G., is that which is preceded by inflammation; while the latter, called also chronic or idiopathic G., is that which takes place without visible inflammation having preceded it. The most frequent causes of G. are violent inflammation, eryspelas, contusion, burns, cold, and deficient circulation of the blood or nervous energy. When it results from high and active inflammation, there is a first severe pain in the part attacked, and generally considerable swelling. After a time, the part loses all sensibility and becomes cold, the redness disappearing, and the skin becoming of an irregular dark color, in some portions approaching a black, and in others a dark-brown or greenish hue. If there is a running sore, the discharge will ceuse; and a bloody serum forms under the skin. The inflammatory fever disappears, and is succeeded by great languor and debility; the pulse is weak, quick, and irregular; the stomach is deranged, delirium frequently occurs, and hiccough is one of the most characteristic aigns of the disease in its more advanced stags. The features are collapsed and the eyes sunk. When the G. is not the result of high and active inflammation, the febrile symptoms are slight or altogether wanting; but there is the same discoloration of the skin, discharge of bloody serum, and morbifa appearance. G. resulting from severe cold is remarkable for the little 110,000 wanting; but there is the same discoloration of the skin, discharge of bloody serum, and morbific appearance. G. resulting from severe cold is remarkable for the little pain generally preceding, the part having frequently periabed without the patient being aware of the fact. A part suffering from severe cold should first be rubbed with anow or a coarse towel, in order to restore the suspart sunering from severe cold should first be rubbed with snow or a coarse towel, in order to restore the suspended circulation, avoiding at first any artificial heat, which might be the means of inducing inflammation. G. may arise from a diseased state of the blood-vessels, attended with debility of the constitution. This form of the disease is commonly known as gargeras sensitis, generally observed in advanced age, though exceptional cases occur in earlier life. It is best exemplified when gradual ossification of the small arterial trunks occurs; pain, heat, and redness being the first symptoms, after which the parts become gradually black and dry. The hands, fore-arms, and feet are chiefly affected. It is this try form of G. which is produced by the ingestion of supporting the state of the state of the superior of this disease which attacks open wounds or ulcers, and is so called from its appearing most frequently in crowded hospitals, and causing a fearful mortality among the patients.

(Bot.) A disease in plants ending in putrid decay. Beautyperson, e. a. To mortify, as fieeh.

\*\*Geogree's members must be looped away.\*\*

"Gengree'd members must be lopp'd away. Before the nobler parts are tainted to dece

~v. n. To become mortified ; to lose vitality.

"Wounds immedicable . . gangrone to black mortification

Gangrenes'cemt, a. Tending to putrescence or mor tification.

Gan'grenous, a. [Fr. gangréneus.] Mortified; in-dicating putrescence of living flesh.

dicating pursessence of living flesh.

Gang-tide, s. Same as Garo-week, q. v.

Gang-teeth, s. A projecting tooth.

Gangue, (pday), s. [Ger. gang, rein.] The mineral substances that accompany metallic ores in the veins of rocks.—The matrix of ores.—The earthy substances present in ores.

sang way, n. [A. S.] (Nast.) A passage or thorough-face of any kind.—In deep-waisted ships it designates 82

a narrow way built horizontally along the upper part of a ship's side, from the quarter-deck to the forecastle, for the convenience of walking fore and aft, instead of descending into the waist. It is fenced on the outside descending into the waist. It is reneed on the outside with iron stanchions, having ropes or rails extended from one to the other.—The opening left in the upper part of a ship's side, for the purpose of entering in or departing from her, is also called a gangway.—The term is likewise applied to a narrow passage left in the hold, when a ship is laden, to enable the sallors to enter either to avaring the care or purposes to discover and stone.

GANT

to examine the cargo or provisions, to discover and stop a leak, or to bring out anything that may be required. To bring to the gangway. (Naut.) To fasten and flog a sailor in the waist or at the gangway.— the usual place

of punishment on board ship.

Gang'-week, Gang'-tide, n. Rogation-week, wher processious forms their boundaries. sious formerly perambulated parishes to survey

their boundaries.

Gam-hway, a province of China. See NGAN-HOEL.

Ga'mler, in Illinois, a twp. of Kankakee co., traversed by the Kankakee River.

Gam'il, n. [Fr.] A term given in some parts of England to a kind of friable limestone.

to a kind of friable limestone. Gemm'famm, a fertile district of Hindostan, in the North Circars, presidency of Bombay; area, 6,400 sq. m.; pop. abt. 950,000.—A town, and cap. of above dist., near the coast of the Bay of Bengal, 84 m. 8.E. of Cuttack, and 535 N.E. of Madras; Lat. 19° 20′ N., Lon. 85° 20′ E. Pop. nnknown.

unknown.

Gan'mat, a town of France, dep. Allier, on the Andelot,

83 m. 8. of Moulins; pop. 6,158.

Gam'net, n. [A. S. ganot.] (Zoöl.) The Sulidæ, a family

of birds, order Natatores, of which the genus Sula, the

only one represented in N. America, is the type. Sula

Bassana, the common Gannet (Fig. 1117), found from

the Arctic Sea to the Gulf of Mexico, breeds in immense

numbers on the

numbers on the rocky islands near the coast of Labrador. It is almost the size of the tame goose. The bill is about six in. long, jagged the sides, a s, and 🔊 straight nearly to the point, where it indownclines wards. A loose skin, bare, and capable of con-siderable dis-



Fig. 1117. - COMMON GANNET. (Sula Bassana.)

siderable distention, hanging from the blade of the lower bill, and extended over the throat, serves as a pouch in which to convey food to its young. The neck of the gannet is long; body flat, and very full of feathers. The crown of the head, and a small space on the hind part of the neck, are buff-color, and, with the exception of the quill and the bastard wing-feathers, the remainder of the plumage is white. The legs and toes are black, but the fore-part of each is marked with a bright-green stripe. The male and female are nearly alike. The young are at first covered with a very beautiful snow-white down; at the age of about six weeks the feathers make their appearance; and at the end of three months they are ready to fly. The food of the gannet consists of saltappearance; and at the end of three months they are ready to fly. The food of the gannet consists of salt-water fish, the herring and pilchard being the staple. It takes its prey by darting down on it from a considerable height. It makes its nest, which are composed chiefly of turf and sea-weed, in the caverns and fissures of rocks, or on their ledges, as well as on the plain surface of the ground. The female lays three white cnieny of turf and see-weed, in the caverns and fissures of rocks, or on their ledges, as well as on the plain surface of the ground. The female lays three white eggs, somewhat smaller than those of the goose. It is stated, however, that the three eggs are only laid in the event of the first and second being removed, and that if left to its own devices the bird will lay but one egg. Gam'net Island, off the N.E. coast of Labrador; Lat. 54° N., Lon. 50° 34′ W. Gam'net Rock, in Maine, a small island and lighthouse, abt. 6 m. off the S.W. point of Grand Menan Island; Lat. 45° 32′ N., Lon. 50° 52′ W. It exhibits a revolving-light 90 ft. above the sea-level. Gam'oid, Gamoid'ial, Gamoid'iam, a. Pertaining or having reference to the ganoids. Gamoid, Gamoid'iams, n. pl. [Gr. ganos, beauty, and eidos, form.] (Zoōl.) An order of fishes in the classification of Mr. Agassis, containing more than 60 genera, above 50 of which are only discovered in a fossil state in the old red sandstone and other rocks of that period. The order is named from the brilliant lustre of their scales, which are coated with a bright enamel, as the Gar-fish.

Gamoine, n. A peculiar kind of bony tissue found beneath the care.

scales, which are coated with a bright enamel, as the Gar-fish.

Garmoline, n. A peculiar kind of bony tissue found beneath the enamel of the scale of a ganoid.

Gameum'atite, n. [Called also Chemcoprolite, or Gooseding Ore.] (Min.) An impure iron sinter, containing some oxide of cobalt.

Gameowoort, (gans'roort,) in New Pork, a post-village of Saratoga co., abt. 10 m. N.E. of Saratoga Springs.

Game'let, Game'lope, n. [Gant for Ghent, and D. loopen, to run.] Originally, a kind of military punishment, in which the culprit was compelled to run between two files or ranks, armed with rods, &c., receiving a blow from each, —a mode of punishment said to have been invented at Ghent, formerly written Gant. A similar mode of punishment was also applied on shipboard.

To run the gantlet. (Sometimes, but erroneously, gauntlet is used.) To experience the punishment of the gantlet; hence, to go through any trying ordeal of keen

criticism, severe animadversion, or, in short, any crucial test of mind or body.

Gantois, (gong-ted',) n. (Geog.) A native or citizen of Ghent, Beigium.
Gantrois, Gantries, Gantries

for barreis. Gamtung Pass, (gan'toong,) a mountain defile in Bussahir, between Chinese Tartary and Koonawar, decending, on the W. side upon the Sutlej; Lat. 31c 88' N., Lon. 78° 47' E. Height, 18,290 feet above sea-leyel.

N., Lon. 78° 47° E. Height, 18,290 feet above see-level. Ganyme'de. [Or. Gasymedes.] (Myth.) A son of Tros and Callirhos, and brother of Ilus. Being the most beautiful of all mortals, he was taken by Zeus to be his cupbearer and to live among the gods on Olympus. Later writers added that he was borne aloft to heaven

on an eagle sent by Zeus.

Gan'sa, Gan'sa, n. [Lat.] A kind of wild goose, by a flock of which a virtueso was fabled to be carried to the lunar world.

"They are but idle dreams and fand And favor strongly of the geness.

Gaol, (jdl) n. (Sometimes written Jan.) [Fr. geole; L. Lat. gatola, a prison; It. gabbiola, a small cage, dim. of gabbia, a cage; L. Lat. caveola, dim. of cavea, a cavity.]

A prison; a house of detention; a place for the confinement of calculated and dabtors.

gabbia, a cage; L. Lat. careola, dim. of cauca, a cavity.]
A prison; a house of detention; a place for the confinement of criminals and debtors.

—c. a. To imprison; to hold in durance; to place in confinement; as, "gabbiag vagabonds." — Bacon.

Gambler, (jall'er,) m. A jailer; the keeper of a gaol or prison; a custodian; a janitor.

Grap, m. [From gape; Icel. gap, a hiatus.] An opening; an aperture; a cleft or break; a breach; any avenue or passage; way of entrance or departure; a defect; a flaw; an interstice or vacuity; a hiatus; a chasm.

To trop a gap, to fill a vacant place; to secure a weak point or feature. — To stand in the gap, to make defence against an expected danger; to expose one's self for the protection of something.

Grap, (anc. Vapincum,) a town of France, dep. Hautes-Alpes, of which it is the cap., in a wide valley, nearly 2,500 ft. above the see, surrounded by the lower Alpine ranges, 44 m. S.E. of Grenoble. Manuf. Woollen and linen fabrics, silks, chamois, and other kinds of leather, and cotton yarn. This place is very ancient, and was the cap. of the Tricorii, under the name of Vap. Pop. 9,040. 9,040.

9,040.

Gap, in Alabama, a village of Walker co.

Gap, in Pennylvania, a post-village of Lancaster co, abt. 18 m. E. of Lancaster.

Gap Civ'il, in North Carolina, the former name of Sparta, a post-village, csp. of Alleghany co.

Gape, (pdp.) v. n. [A.S. geopan; Dan. gabe; Icel. gapa, to gaze with open mouth; Du. gapen.] To open the mouth wide; to yawn, indicative of sleepiness; as, he is gaping for bed.—To open the mouth for food, as young birds.—To open the mouth in wonder, surprise, eager longing, hope, or expectation, or with a desire to injure or devour; as, a gaping crowd.—To open in fisinjure or devour; as, a paping crowd.—To open in fis-sures or crevices; to exhibit a histus; as, a gaping chasm.—To desire earnestly; to crave;— preceding for or after; as, "gaping after court-favor."—U Estrange.

n. A gaping.

(Zool.) The width of a mouth when opened, as of a bird, fish, &c.

The gapes, a disease common among young poultry, indicated by much gaping.

Gap'er, n. One who gapes, yawns, or stares openmouthed.

mouthed.

Gap Grove, in Illinois, a post-office of Lee co.

Gap Mills, in W. Virginia, a post-village of Monroe co.

Gap Run, in Tennessee, a post-office of Carter co.

Gaps ville, in Pennsylvania, a P. O. of Bedford co.

Gap'-toothed, a. Having gaps or interstices between

the teeth

Gar, [A.S.] an affix or syllable signifying a dart or wea-pon; an instrument of offence. Hence the derivation of some of the Saxon names, as Edgar, "happy weapon;" Ethelgar, "noble weapon;" and many others. Gia'ra, (Lough,) a lake of Ireland, in Connaught, abt. ... m. W. of Carrick on Shannon.

Gar'ancime, s. (Chem.) A coloring-matter derived from madder by the action of sulphuric acid upon it. When boiled in water, it yields a red solution containing alternies (q. v.) It has a higher coloring power than madder itself.

inader them.

Garb, n. [O. Fr. garbe, a garb; Norm. garbes, clothing;
It. garbo, comeliness, behavior, carriage; A.S. garroc,
clothing.] Dress; clothing; habit; as, the garb of a

monk.

Fashion or mode of dress; — hence, external appearance, looks, &c., expressive of disposition, manner, character, &c.; as, "he could not speak English in the native gare." — Shake.

(Her.) A sheaf of any sort of grain; — said to repre-

sent summer. "sent summer. "derbag, of "bab". That which is separated, as by sifting; the bowels of an animal; refuse parts of fiesh; offal. (Applied sometimes to vegetable refuse, and to immoral and gross literature.)

Who, without aversion, ever look'd On holy gerbage, though by Homer cook'd?"—Lord Re 

ar'ble, v. a. [O. Fr. grabeller, to sift, to examine nearly; Sp. garbillár, to sift, garbillo, a coarse stove; Ar. gharbil, a sieve.] To pick out or separate such parts Carble, v. a.

Ar. gaaron, a nevel, lo pick out or separate sand parts from a whole as may serve a purpose; to destroy or mutilate by picking out; as a garbled version of a story. Gar'bler, n. One who garbles; one who picks out or selects to serve a purpose; as, a garbler of quotations. Gar'bles, n. pl. The dusty refuse matter of drugs,

spices, &c.

Gar'board, Gar'bel, n. (Nest.) The first plank fastened on the outside of a ship's keel.

Gar'board-strake, n. (Nest.) The strake of plank in the bottom that is wrought into the rabbet of the

keel of a ship.

Garcia River, (gar-see'a,) in California, enters the Pacific Ocean from Mendocino co.

Garcia Elver, (gar-seca.) in Culifornia, enters the Pacific Ocean from Mendocino co. Garcias, Lasso, or Garcias De La Vega, called the Prince of Spanish Poets, E. at Toledo, in 1803. He was early distinguished for his wit and fancy, wrote several pathetic pastorals and sonnets, and did much towards uprooting that taste for bombast, which, at the period in which he flourished, disfigured the productions of his countrymen. G. followed the profession of arms, and attended Charles V. in many of his expeditions, and fell in battle, in 1836. Garcia's no de la Vega, surnamed The Inca, because by his mother's side he was descended from the royal family of Peru, was E. at Cuzco, in that country, in 1830. Philip II., dreading the influence of G. among the natives, summoned him to Spain, where he D. He wrote a History of Peru, and also a History of Florida. Garcian's, an Oriental traveller.] (Bot.) A genus of the order Guttiferz. The species G. mangortana, a native of Malacca, produces the Mangosteen, which is reputed to be the most delicious of all fruits. G. cornea, kydiana, and pedusculata yield fruits of a similar character, but much inferior. The seeds of G. perpurea, upon being boiled in water, yield a concrete oil called kokum butter, or oil of mangosteen. It is very useful as an application to chapped hands, and has been recently imported into this country. One or more species of this genus are supposed to yield our commercial and officinal gambage. to chapped hands, and has been recently imported into this country. One or more species of this genus are sup-posed to yield our commercial and officinal gamboge, which is brought from Siam in cylinders, either solid or hollow, and in large cakes or amorphous masses. The pipe, or roll gamboge, is the finest kind. In medicine, gamboge is used as an active hydragogue and drastic purgative. In over-doses it acts as an actid poison. In the arts it is much employed as a water-color, and to give

purgative. In over-doses it acts as an acrid poison. In the arts it is much employed as a water-color, and to give a golden tint to lacquer-varnish for brass-work. Chard, a dept. of France, in the 8. part of that country, formerly comprised in the prov. Languedoc; between Lat. 43° 27' and 44° 27' N., and Lon. 3° 17' and 4° 60' E.; having N. the depta. Loadre and Ardèche; E. the Rhone, separating it from Vaucluse and Bouches-du-Rhone; W. Aveyron; and 8. Hérault, the Mediterranean, and the Isle de Camargne. Area, 583,566 hectares. Dezc. The N. and W. parts are occupied by ramifications of the Covennes range, the general slope of the dept. being from N.W. to 8.E., in which latter part of its surface there is a considerable extent of level country, with numerous and extensive pools and marshes. Rivers. Gard, Chec, Vidourie. Clim. For the most part hot and dry, with occasional siraccos. Soil. fertile. Prod. Cereals, potatoes, chestnuts, wine, and fruits. The mulberry is largely cultivated. Much wool is produced. Min. Iron and coal are abundant; argentiferous lead, antimony, zinc, and great quantities of sait are obtained from the sait marshes on the coast. Manuf. Silk, cotton, and woollen fabrics, hats, paper, brandy, leather, glass, earthenware, &c. Chief lowes. Nimes (the cap.), Alais, Uzes, and Le Vigan. Pop. (1895) 421,650.
Gard, or Gard'om, a river of France, which traverses the centre of the dept. Gard, and after a course of 55 m. falls into the Bhone. 5 m. form Tarascon.

and Le Vigan. Pop. (1895) 421,650.

Gard, or Gard'om, a river of France, which traversee the centre of the dept. Gard, and after a course of 55 m. falls into the Rhone, 5 m. from Tarascon.

Gard, (Porr Du.) in France. See Aquaduct.

Garda, (Lake 07.) (anc. Lacus Benacus.) a famous lake of N. Italy, bounded by the provs. of Mantna, Breach, and Verona, and the circle of Roveredo in the Tyrol. From Peschlera at its S.E. extremity (15 m. W. of Verona) its stretches N.N.E. to Riva, a distance of abt. 35 m. Its lower or S. portion is abt. 12 m. across where broadest; but its upper or N. portion is not more than from to 4 m. across. It is everywhere enclosed by ramifications of the Alps, except on the S., where the luxuriant plain presents a striking contrast to the magnificent mountain scenery that closes round its upper waters. The surface of this lake is at an elevation of abt. 320 ft. above the Mediterranean; it is generally deep; its waters are remarkably pure and limpid; and it is well stocked with fish. Its surplus waters are carried off by the Minclo, which issues from it at Peschiera. A great number of towns, villages, &c., are built upon its banks, of which the principal, besides Peschiera, are Desenzano, Salo, Gargano, Riva, and Garda. The greater number of these places have safe and commodious harbors, and a good deal of trade is carried on upon the lake.

Garda'm, or Gharde'ia, a walled town of Algeria, in the Sahara desert. Manuf. Woollen stuffa, fire-arms, and gunpowder. Pp. Unascertained. Lat. 31° 58' N. Lon. 2° 50' E.

Gard'amt, a. [From Fr. garder.] (Her.) Applied to an animal when represented full-faced, and looking for-

Lon. 20 50' B.

Gard'ant, a. [From Fr. garder.] (Her.) Applied to an animal when represented full-faced, and looking forward.— See Passant-Gardaner.

Gardele'gen. a town of Prussian Saxony, 30 m. N.N. W. of Magdeburg. Pop. abt. 6,500.

Garden Mationale. [Fr.] See NATIONAL GUARD.

Garden, (gardn.) n. [Ger. garten; Dan. gidrde; A. S. geard; Fr. jardin.] A piece of ground enclosed and appropriated to the cultivation of herbe and plants, fruits and flowers.

-A rich, fruitful, well-cultivated spot or tract of country; a delightful plac

a delightful place.

"I am arrived from fruitful Lombardy,
The pleasant gerden of great Italy."—Sheke.

Kitchen gerden, a garden devoted to the cultivation
and production of vegetables, herbs, &c., for kitchen-use.
—e.s. To lay out a garden; to cultivate a garden; to labor
at gardening; to practise floriculture, horticulture, &c.
—v. a. To cultivate, as a garden.
Garden-engime, s. An apparatus used for watering

gardens.

Gardener, (gdr'dn-er.) n. One who gardens; one whose occupation is to lay out, tend, and dress a garden; a horticulturist.

theritarist.

dar'den-house, s. An arbor; a summer-house.

A privy; a necessary. (Used in the Southern States of the Union.)

the Union.

Garde'mia, n. (Bot.) A gen. of the ord. Cinchonaces.

From the fruits of G. grandifora, florida, and radicans,
beautiful yellow dyes are prepared, which are extensively used in Chine and Japan. Many species are favorites in our green-houses and hot-houses, on account of their beautiful and fragrant flowers. The corolla is funnel-shaped, the tube much larger than the calyx. The fruit is a berry crowned with the calyx. The genus was named after Dr. Garden, of Charleston, South Carollins, who corresponded with Linnseus.

Gardening, n. The act of laying out and cultivating pieces of ground, generally of limited extent, and inclosed for the purpose of rearing vegetables, fruits, and flowers.

As an art of design or taste, gardening is of very ancient date, and with the exception of certain modern improvements, such as glass-houses, &c., was in a high state of

ments, such as glass-houses, &c., was in a high state of perfection two thousand years ago. The earliest gardens perfection two thousand years ago. The earliest gardens of which there is any account are those of Solomon, which are described as having been of quadrangular form, surrounded by high walls. They contained aviaries, wells, and streams of water. The gardens of Cyrus and other Persian monarchs were of great extent, and generally laid out in romantic situations. They were also distinguished for the great diversity of their uses and products. The first allusion to terraces in gardens is to be found in the description of the celebrated hanging carriers of Bahylon. Although Herylottus and others gardens of Babylon. Although Herodotus and others do not mention it in their descriptions, there is little doubt that these terraces were decorated with vases, parapets, &c. Most of the elements of a modern archiparapets, &c. Most of the elements of a modern archi-tectural garden are alluded to in connection with those of Babylon. The terraces are described as being fur-nished with groves, containing fountains, seats, parterres, and banqueting-rooms, and as combining the minute beauties of flowers and foliage with masses of light and shade and extensive prospects. The grove of Orontes, described by Strubo, must be regarded as a park or large garden in the picturesque style: it was nine miles in garden in the picturesque style: it was nine miles in circumference. In ancient Greece, gardening was rather a neglected art at first, but in process of time great ad-vance was made. The vale of Tempé, the Academus at Athens, and other public gardens, were extremely ele-gant, and were ornamented with templee, altars, tombs, statues, monuments, and towers. On account of the na-ture of the climate, the chief qualities required in a garden were shade, coolness, fresh breezes, fragrance. ture of the climate, the chief qualities required in a garden were shade, coolness, fresh breezes, fragrance, and repose. The Greeks copied their gardening from the Persians; and the Romans, in their turn, copied that of the Greeks. Little is known of the early style of Roman gardening: the vast edifices projecting into the sea, and the immense artificial elevations, are apparently ridiculed by Gicero and Varro. About this time, however, the cultivation of odoriferous trees and plants because the attended to and the planting of trees all because the attended to and the planting of trees all because of the attended to and the planting of trees all because of the attended to and the planting of these all because of the attended to and the planting of these all because of the attended to another planting of the articles. ever, the cultivation of odoriferous trees and plants began to be attended to; and the planting of trees adjoining each other, whose odors assimilated, was then as much a study with the gardener as the harmonious blending of colors at the present day. The early french and Dutch styles of gardening were evidently adopted from the description of Pliny's garden. On this subject Loudon remarks: "The terraces adjoining the house, the lawn declining from thence, the little flower-garden with the fountain in the centre, the walks bordered with box, and the trees sheared into whimsical artificial forms—together with the fountains alcoved, and sumbox, and the trees sheared into whimsical artificial forms—together with the fountains, alcoves, and summer-houses, form a resemblance too striking to bear dispute." The use of glass in the construction of conservatories was early known to the Greeks and Romans; and the "Gardens of Adonis," mentioned by some of their most eminent authors, were probably of this kind. It is said that in them were to be seen rare trees from India and China, the myrtle and crocus in flower, and the cinnamon and frankincense trees covered with leaves. Cucumbers were also grown there all the year round.

The use of hot water in forcing vegetables was also employed at the same time. Gardening, like all the other ployed at the same time. Gardening, like all the other arta, languished during the dark ages, but with the re-vival of learning, the invention of printing, and the Reformation, it began again to flourish. The art was revived and patronized by the family of the Medici in Italy; and their gardens, which were of the geometric and architectural style, long served as models for most of Europe. It continued to be imitated in France, Ger-many and Britain multi the introduction of the English and architectural style, long served as models for most of Europe. It continued to be imitated in France, Germany, and Britain, until the introduction of the English or natural style. In garden architecture very little progress, as far as hot-houses are concerned, has been made in the south of Europe, the warmth of the climate rendering them all but useless. There are, however, plant-houses in many places in Spain and Portugal. The French and Dutch styles of gardening resemble each other closely: symmetry and profuse ornament are the characteristics of both. The Dutch style is eminently adapted to the nature of the country, where there are no inequalities of surface as in England. The French style seems to have arisen about the middle of the 17th century, during the reign of Louis XIV. The most celebrated gardener of the period was Le Nôtre, who laid out the famous gardens of Versailles. Le Nôtre's style spread rapidly into other countries, and was extensively adopted in this country. The first erection of bot-houses in France occurred toward the end of the reign of Louis XIV., by M. Fagon, in the Jardin des Plantes. The first rescribes a strength of the strength of th XIV., by M. Fagon, in the Jardin des Plantes. The first magnificent attempt at hot-house building was that for Francis I., of Austria, in 1763. They were in five ranges, extending altogether to the length of 1,290 feet, many of them being 30 feet high. From about 1760, landscape gardening, and the adoption of the English style, rapidly spread into France, Germany, and Russia, where it still prevails. The art of cultivating flowers and fruit in gardening will be found more particularly described under the art. Horricularus. See also Grapping, Grienswords.

under the art. HORRICULFURE. See also GRAFFING, GREENROUSE, HOT-ROUSE, HOT-RED, STOYL, &c.
GRAF'dem, in Ohio, a post-office of Athens co.
GRAF'dem City, in Minnesota, a post-village of Bine
Barth co., abt. 12 m. S.W. of Mankato.
GRAF'dem Cottage, in Kentucky, a P. O. of Pulaski co.
GRAF'dem Grove, in Jouc, a post-village and township of Decatur co., about 50 m. S. of Fort Des Moines.
It has a flourishing academy.
GRAF'dem Inland, or BUACHE, an island of W. Australia, co. of Perth, in the Indian Ocean, 5 m. from the
mainland: length, from N. to S., about 5 miles; average
breadth. 1 m.

breadth, 1 m.

Gar'deuless, a. Not possessing a garden.

Gar'den-mould, s. Rich earth, or mould, fit and

suitable for a garden.
Gar'den Plain, in Illinois, a post-village of Whitesides co., abt. 96 m. N.N.W. of Peoria.
Gar'dem-plot, s. A plot formed when planting a

garden Prairie, in Illinois, a P. O. of Boone co. Garden Prairie, in South Dakota, a township of Brown co

Garden-stand, s. A stand for holding flower-pots in

Garden-stant, n. A colloquialism for vegetable, herts, etc., grown in a garden for culinary use. Garden Valley, in California, a post-village of E Dorado co., about 11 miles N. of Placerville. Garden Valley, in Teras, a P. O. of Smith co. Garden Valley, in Teras, a P. O. of Smith co. Garden Valley, in Wisconsin, a township of Ject-son county.

Garden Valley, in Wisconsia, a township of Jeckson county.

Gard'enville, in New York, a post-office of Eric co.

Gardiner, Stephen, a celebrated English prelate and statesman, B. at Bury St. Edmund's, in Suffolk, 1483, was the illegitimate son of Dr. Woodville, bishop of Salibury, and brother of Elizabeth, queen of Edward IV. He was educated at Trinity Hall, Cambridge: from whence he went into the family of the Duke of Norfolk, and aftewards into that of Cardinal Wolsey, who made whence he went into the family of the Duke of Norfolk, and afterwards into that of Cardinal Wolsey, who made him his secretary. In this situation he acquired the confidence of Henry VIII., to whom he was serviceshe in procuring his divorce from Queen Catharine; he also defended the king's supremacy, and for these services he was appointed secretary of state, and soon after promoted to the see of Winchester. G. drew up articles accusing Henry's last queen, Catharine Parr, of heres; but the queen avoided the storm, and he fell into digrace. At the accession of Edward VI. he opposed the Reformation, and was committed first to the Fleet, and afterwards to the Tower, where he was a prisoner during the remainder of the reign. He was also deprived of his bishopric; but on the accession of Mary he was restored to his see, and appointed Chancellor of England. D. 1555. He was a learned man, but arful, disembling, ambitious, and proud.

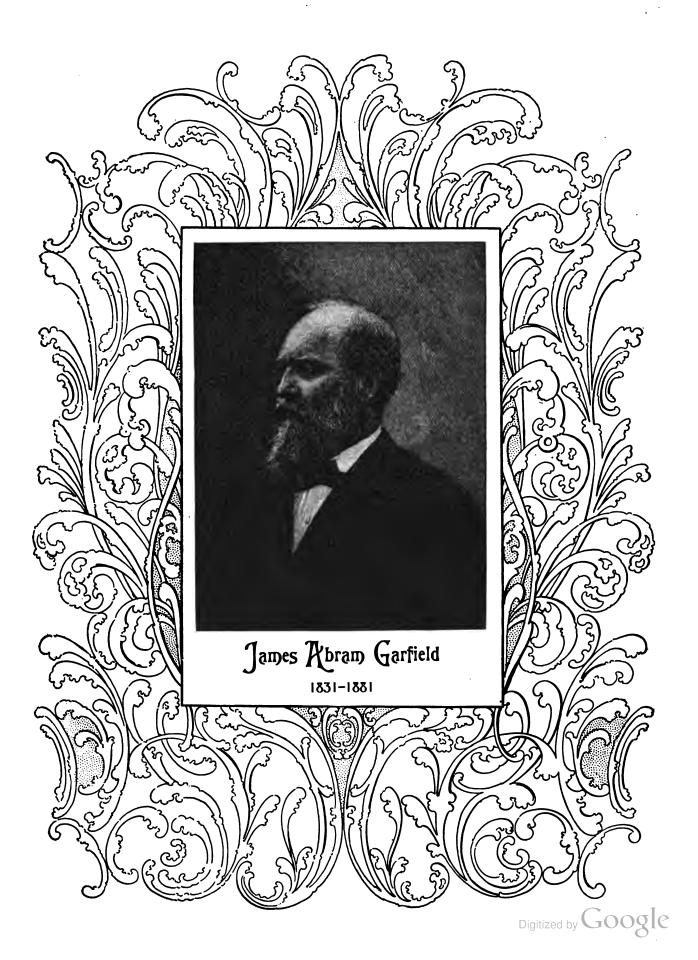
Gasr'dimer, in Maine, a city of Kennebec co., on the Cobbesscontec River, abt. 7 m 8. of Augusta. The river here has a succession of falls which afford confiderable water-power. Mannef. Paper, wooller goods, flour, machinery, leather, lumber, &c. The city is well built, and has every facility for an extensive trade. Pap. (1897) about 5,950.

Gasr'dimer's Island, in New York, belongs to Suffolk co., and lies off the E. end of Long Island, from which it is separated by Gardiner's Bay. Jaland, from which it is separated by Gardiner's Bay. Jaland, from which it is separated by Gardiner's Bay. Jaland, from which it is separated by Gardiner's Bay. Jaland, from and the processing the service of the water. A service of the service of the water. A service of the service of the water. and afterwards into that of Cardinal Wolsey, who made

square miles.

which it is separated by Gardiner's Bay. Area, about a square miles.

Giar'dyloo, n. [Fr. gare l'eau, beware of the water.] A common cry, in former days, of the dwellers in the high lists of the houses of Edinburgh, who were in the habt of throwing urine, slops, &c. out of the window. Giar'field. James Abram, twentieth President of the U. States, n. in Cuyshoga co., Ohio, Nov. 19, 1831, graduated from Williams College, Mass., in 1856, and adopted the profession of law. In 1856–80 was s member of the Ohio Senate, in 1861 entered the army as Col. of the 43 O. Vol. In 1863 he was appointed Chief of Staff to Ge. Rosecrans, and was promoted to Major-General of Volunteers (Sept. 19, 1863). He resigned from the army to take his seat in the 38th Congress from Ohio, and continued to serve in Congress up to 1880, when he was elected Senator from Ohio. On June 8 of that year he was selected as the nominee of the Republican party for President of the U. S., and elected the following November. On July 2, 1881, he was shot in the back in the Potomac Railroad depot at Washington, by Charles J. Guiteau, a disappointed office-seeker, and died at Long Branch, Sept. 19, after a prolonged agony. The mourning of the netton was expected reconstruction. Guiteau, a disappointed office-seeker, and died at long Branch, Sept. 19, after a prolonged agony. The mourning of the nation was as spontaneous and nniversal as it was deep, and surpassed in its expression anything of the kind ever seen in America. The sympathy of foreign countries was also most profound. After a long protracted trial, and in spite of his claim that he was insane at the time he committed the crime, Guites was condemned, and hung Jane 30, 1882. Garfield was



GARI

ly prec ckerel in their annual visit to shallow water for the purpose of spawning. It is from 20 to 24 in length, with long, nar-row, beak-like snout, the un-



Fig. 1118. — GAR-FISH.

snout, the under jaw projecting; the teeth are numerous and minute, the eyes large; the dorsal and anal fins opposite each other; pectoral and ventral fins small; and the tail considerably forked. The upper part of the head and back is of a dark green hue, the sides paler, and the belly a silvery white. It is a very vivacious fish, and selzes the bait with avidity. The flesh of the G. has somewhat the flavor of mackerel, but is more dry; and the bones are

Gargalize, v. a. To gargle. Garganey, n. (ZoW.) Anas querquedula, a species of duck.

duck.

Garga'me, a town of N. Italy, on the Lake of Garda,

24 m. from Brescia; pop. abt. 4,500.

Gargarisma, n. [Fr. gargarisme; Gr. gargarismos.]

(Med.) A wash for the throat; a Gardin, q.v.

far garens, a mountain of Anatolia, in Asia Minor,

10 m. from Adramyti, forming the highest elevation in

the Mt. Ida ridge. It may be divided into three somes;

the first consisting of cultivated land, the second of

foresta, and the third of snow.

Garget, Gargens, n. A disease occurring in the

viders of cows. — A distemper found among hogs, the

symptoms of which are hanging down of the head,

moist eyes, staggering, and loss of appetite.

(Written also Gargol).

Gargel, n. A distemper affecting the heads of geese.

(Written also Gargon).

Gargil, n. A distemper affecting the heads of geese.

Gargil, n. A distemper affecting the heads of geese.

Gargil, n. A distemper affecting the heads of geese.

Gargile, (pdr pt.) v. a. [Fr. parpositler, to dabble, to paddle, from Lat. parputio, the gullet; Gr. parpareën, formed from the sound.] To wash, as the throat and mouth, with a liquid preparation, which is kept from descending into the stomach by a gentle expiration of air.

-a. (Med.) A lotion or wash for the throat. It is used by taking a mouthful of the liquid, and then throwing back the head, by which it is passed into the throat, where, by expelling air from the lungs, it is agitated and made to wash all parts of the inner surface. Gargies are extremely useful in various diseases of the throat, and differ in their composition according to the purpose which they are intended to serve. In order to allay inflammation or reduce swelling, warm waster with purpose which they are intended to serve. In order to allay inflammation or reduce swelling, warm water with a little vinegar is the best that can be used. When a stimulating effect is required, a mixture of infusion of Peruvian bark, port wine, and tincture of capsicum, to promote suppuration, or barley-water and infusion of linesed used warm; and, as a pure astringent, a decoction of Peruvian bark, with alum or borax, will be found useful. Cargoyle, Gurgoyle. [Fr. garyouttle.] (Arch.) An ornamental spout projecting below the battlements of a tower or

the parapets of a wall, through which the rain which the rain that falls on the roof is discharged at a little distance beyond the face of the wall. The gargoyle forms a striking feature in Gothic architecture architecture, being frequent-ly in the form of a dragon, or lion, or some heraldic monster, and som times a gro-



times a great state of the stat

human face and figure. It was introduced to mask the unightly appearance of a piece of leaden pipe sticking out of the wall, the pipe being passed through a block of stone, which was subsequently carved into a form corresponding to the general character of the architecture of the building.

Garbal'di, Giuseppe, an Italian partisan-general and patriot, was B. at Nice, of poor parents, July 4, 1807. Being fond of the sea, he made several voyages in early youth, and in 1832, becoming implicated with Mazzini in a conspiracy against Charles Albert, king of Sardinia, he was compelled to quit his country. Two years afterwards, he became again involved in political troubles, and was condemned to death in his absence for an attempt to subvert the existing government. He escaped to Prantical and the substantiant of the content of Prantical and the substantial to the content of the content an attempt to subvert the existing government. He escaped to Franca, and landing at Marseilles, there signalized himself by his devoted attention to the patients of a cholera hospital, whom the nurses had deserted. Thence he sailed in an Egyptian corvette, and offered

his services to the Bey of Tunis; but the life in that service not being stirring enough for his active and in-trepid spirit, he sailed for South America, in 1836, and fought for the republic of Rio Grande, then at war with fought for the republic of Rio Grande, then at war with Brasil. G. commanded a vessel of 30 tons, with 16 men, and having been taken prisoner at Gualaguay, upon trying to escape, experienced the most cruel treatment. After effecting his liberation, he again fought for Rio Grande, and, attended by his devoted wife Anita, passed through the extreme of peril and privation. G. next commanded an Italian legion of 800 men against Rosas, Dictator of Buenos Ayres, and fought the battle of Salto Sant' Antonio. In 1847, on hearing of the elevation of Plus IX. to the Pontificate, G. offered his services to Charles Albert, and mon the latter's declining tion of Pius IX. to the Pontificate, G. offered his services to Charles Albert, and upon the latter's declining them, he transferred, in 1848, the offer to the Provisional Government then sitting in Rome. There he was received with enthusiasm, and distinguished himself in the very thickest of the struggle when that city was stormed by the French troops. On the entry of the latter, G. fied, hotly pursued by French and Austrian cavalry. During the terrible time which followed, G. was hunted down like a wild beast; he lost his brave wife, who sunk down by his side overcome with the terrors and hardships she had endured. G. eventually succeeded in making his escape to the U. States, where



Fig. 1120. - GARIBALDI.

he settled on Staten Island, N.Y., as a soap and candle manufacturer. In 1854 he visited England, and was presented with a sword of honor by the citizens of Newcastle-on-Tyne. He afterwards settled on the rocky island of Caprera, adjoining that of Sardinia, in the Mediterranean, where he commenced to practise the pursuits of agriculture and gardening with great success. On the breaking out of the war between France and Italy against Austria in 1859, which resulted in the cession of Lombardy and Venetia to Italy, G. organized a volunteer force of 17,000 men, called the Cacciatori dell' Alm ("Chassenus of the Alms"), with which he a volunteer force of 17,000 men, called the Cacciatori dell' Alpi ("Chasseurs of the Alps"), with which he cobjerated with the regular army of his countrymen, forming its flying column of tirailleurs. At the head of this force, G. fought in the battles of Varese, Camerlato, Como, Brescia, Magenta, Montebello, Solferino, &c. Next year (1860), G. fitted out a small expedition, with funds subscribed by his English admirers, and landing at Marsala, Sicily, in May, took Palermo, and after several engagements with the Neapolitan troops drove them out of the island. Following up his success, with a largely increased force, Gen. G. marched on to Gaëta, meeting there Victor Emanuel, whom he saluted as eral engagements with the Neapolitan troops drove them out of the island. Following up his success, with a largely increased force. Gen. G. marched on to Gaëta, meeting there Victor Emanuel, whom he saluted as "King of Italy," and with him entered Naples in triumph. After the fall of Gaëta and Capua, and the full accomplishment of his great design in uniting Italy under one constitutional nuonarch, Gen. G., refusing all honors and rewards, and poor as when he set out, returned to his humble island-home at Caprera. His insular retirement was not, however, of long duration. In 1862 he published at Palermo an inflammatory address to the Hungarian people, inciting them to revolt; Gen. Klapka, and others of his judicious friends, endeavored, but without success, to restrain him from what they woll deemed to be a Quixotic enterprise. In August of that year, Gen. G., at the head of a body of volunteers (including a number of enthusiastic Englishmen), crossed in two French steamers from Catania to Melita, a small port on the Calabrian coast. They were followed by a strong body of the royal troops under Col. Pallavicini, and were attacked on the mountain plateau of Aspromonte, when they surrendered, G. himself being severely wounded by a rifle-bullet in the ankle. He was conveyed to Spezia, where the bullet was extracted, The wound, however, continued a source of painful annoyance. Though guilty of de facto treason, he was pardoned by the king on account of his eminent services in the cause of Italian independence in 1860, and returned to Caprera. In 1864, Gen. C. visited London, where he received an ovation from the people which almost amounted to delirium. During the Austro-Prussian campaign of 1866, Gagain took the field, was engaged in operations in the Tyrol, sustained a severe repulse from the Austrians, July 22, and retired upon the Soro. This reverse he retrieved next day, and was preparing to advance when the war was brought to a close. In 1867, a body of Italian volunteers, under G's command, set out on an exp

French in the Franco-Prussian war, and was given command of the Army of the Vosges. He published, in 1809, The Rule of the Monk, a novel, and in 1875 was elected to the Italian Parliament, and took an active part in introducing a plan for the irrigation of the Campagna. The latter years of his life, owing to failing health, were mostly passed in retirement at Caprera, devoting himself, like another Cincinnatus, to the cultivation of his farm. Here he died, June 2d, 1882. His last public appearance was at Palermo, Sicily, where he participated in the sixth centennial of the Sicilian Vespers.

Gariep, (gar-têt-ya'no,) a riv. of Italy, after a course of 75 m. falls into the Mediterranean, 10 m. from Gasta.

Gar'ish, a. [See Gairsel.] Showy; glaring; darning:

1301

Gar'ish, a. [See Garrish.] Showy; glaring; dazzling ostentations in light and color; as, "the gariet sun.

cetentations in light and color; as, "the garish sun." (Shaks.)—Plighty; extravagantly gay.

Gar'ishmess, a. State or quality of being garish.

Gar'Isnd, a. [Fr. guirlands; It. ghirlanda; Sp. guirnalda, from Lat. gyros, a circle; Gr. guros, a ring, a circle.] A circle, wreath, or chaplet, made of branches of flowers; a coronal; an ornament of flowers, fruits, and leaves intermixed

and to the sweetest maid."—Nokeli " The sweetest gard

The top; the principal part; the thing most prized.

(Arch.) A sculptured representation of a wreath or

(Arca.) A sculptured representation of a wreath or coronal.

—A collection of little printed pieces of proce or verse; an anthology; as "The Truelover's Garland."

(Naul.) A netted bag with a hoop to widen its mouth, used by sailors as a receptacle for provisions.—A grommet or lashing for a mast.

—v. a. To deck or crown with a garland or wreath.

Gar'land, in Maise, a post-township of Penobecot co..

75 m. N. N. E. of Augusta. Pop. (1897) about 1,000.

Gar'land, in Pu., a post-village of Warren co.

Garlandless, a. Having no garland,

Gar'lasco, a town of N. Italy, in Piedmont, 24 m. S.E. of Novara. Near this place the Austrians crossed the Po, when invading Italy in 1849.

Gar'lice, n. [A.S. garlic, or garlac—gar, a lance, and lace, a leek.] (Bol.) See Allium.

Gar'lice, (Oil of.) n. (Chem.) See Alliu.

Gar'licky, a. Having the nature of garlic; containing garlic.

garlic. Garlic-pear'tree, n. (Bot.) The Cratura gynandra, a S. American tree of the order Capparidacez, q. v. The bark of its root blisters like cantharides.

Gar'liestown, a seaport of Scotland, co. Wigtown, at the head of a small bay, W. coast of Wigtown Bay; pop. the he

Gar'mana, or Garom'na, an island off the coast of Galway, Ireland, about 6 m. N.E. of 8. Arran Islas. Gar'man's Mills, in Pennsylvania, a post-office of Cambria co.

Cambria co.

Cambria co.

Cambria co.

Cam'ment, m. [O. Fr. garnement; Fr. garnement—garner, to deck, to furnish.] Any article of clothing, as a coat, gown, &c.

pl. Clothing in general; as, cast-off garments.

Gar'mented, a. Wearing a garment. (R.)

Gar'mented, a. Wearing a garment. (R.)

Gar'mented, a. Wearing a garment.

Gar'meouth, a seaport of Scotland. co. Moray, at the mouth of the Spey, 35 m. N.W. of Aberdeen, and 7 N.E. of Eigin; pop. 897.

Garmavil'lo, or Gar'maville, in Lossa, a post-township of Clayton co., about 45 m. N. W. of Dubuque.

Gar'mer, n. [Fr. grenier; Lat. granaria, a place where corn is kept, from granum, a grain, a small kernel; Sp. granero. See Granary.] A granary; a place for storing grain. grain.

grain.

-v. a. To store for preservation, as in a garner or granary.

Gar'net, n. [Fr. grenat; It. granata. from the recemblance of its small red crystals to the seeds of the pomeranate.] (Min) A mineral, of which there are several varieties, all of which are silicates of different bases. Crystals, rhombic dodecahedra. Lustre, vitreous. Color, red, brown, yellow, white, green, black, varying with the compositions. The following varieties or sub-species are nead. Grossilatis (a.) or lives humble. the compositions. The following varieties or sub-species are named: Grossularite (q. v.), or lime-slumina G.; Pyrope (q. v.), or magnesis-alumina G.; Almandite (q. v.), or iron-alumina G.; Spessartite (q. v.), or manganese-alumina G.; Andradite, or lime-iron G.; Bredbergite, or lime-magnesis G.; and Ouvarovite (q. v.), or lime-throme G. Sp. gr. 316-43. In jewelry, the lighter, clear garnets are often called hyacinths. The deep and

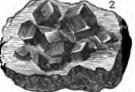




Fig. 1121. - GARNET.

d crystal; 2, portion of rock with imbedded crystals.

clear red, like Burgundy wine in shade, is the true preclear red, like Burgundy wine in shade, is the true pre-cious G., which is either pyrope or almandite. The Latin name carbunculus, from carbo, coal, alludes to the inter-nal fire-like color and reflection. G. is found very com-mon in mica-schist, gness, chlorite-schist, spentite gness, and hornblende. Also in granite, syenite, and sometimes in other rocks. G. occurs in many localities in this country. Pulverized G. is sometimes used as a substi-tute for emery for cutting gems and polishing metals and stone. See Carbuncle, Cinnamon-stone. The mineral leucite (q. v.) is sometimes called white G. The G. can be produced artificially.

Digitized by GOGIC

(Naut.) On shipboard, a tackle depending from the mainstay, used in the hoisting in and out of the cargo. Garmetiferous, a. Productive of garnets.
Gar'metaville, in Ky., a post-village of Meade co.
Gar'mett, in Kassu, a city, cap. of Anderson co., on the A., T. & S. F. and Mo. Pac. R. Rs., 50 m. S. of Lawrence. Pop. (1885) 2,145.
Gar'mier-Pages, Louis Antoinz, a French politician and historian, B. 1803. He was a commission-agent in Paris when the revolution of July, 1830, broke out, and played a conspicuous part at the barricades. Being subsequently elected a deputy, he took his seat in the Chamber on the "Lett." occupying himself chiefly with financial and commercial subjects. G.-P. was one of the leaders in the organization of the reform banquets, which preceded the revolution of 1848, at which time he was appointed Mayor of Paris, and was Minister of Finance under the Provisional government. In the latter was appointed Mayor of Paris, and was Minister of Finance under the Provisional government. In the latter capacity he had to deal with a financial crisis, and introduced several important reforms; among others, the system of bonded warehouses and dock-warrants. He was elected a member of the Executive Commission, and of the Legislative Assembly in 1864. G-P. is the author of L'Histoire de la Revolution de 1848, 8 vois. pubin 1860-2, and a continuation in 1867. D. 1878.

Gaz'mish, v. a. [Fr. garnir, to equip with necessaries; It. guarnire, to furnish; allied to A. S. granvian, to prepare. See Gzaz.] To adorn; to decorate with appendages; to set off with accessories; to embellish.

"All the streets were gerafished with the citizens in their livries."

"All the streets were garnished with the citizens in their liveries.

To ornament or embellish, as a dish with something en -to ornament or embelism, as a disk with something en-circling it; as, a turkey garnished with sausages. —To furnish, as a fortified position with troops. — To equip with fetters. (Used in an ironical seuse) -s. Ornament; decoration; adventitious embellishment.

"So are you sweet

Ev'n in the lovely garnish of a boy."—Shake.

Ev'n in the lovely garsish of a boy."—Saaks.

(Cookery.) Trimmings, &c., strewed round or upon a dish as a decoration or embellishment.

Fetters. — An entrance-fee paid by a prisoner on first entering a jail to those already incarcerated, by way of premium of admission into the fraternity. (Cant.)

Samishee', a. (Law.) A person who has money or property in his possession belonging to a defendant, which money or property has been attached in his hands, and who has had notice of such attachment; he is so called because he has had warning or notice of the attachment. From the time of the notice, the G. is bound to keep the property in his hands, to answer the plaintiff's claim, until the attachment is dissolved, or he is otherwise discharged.

claim, until the attachment is dissolved, or he is otherwise discharged.

Gar'mishment, n. Ornament; embellishment; as, "garnishment of sculpture." (Sir H. Wotton.) — A fee.

(Law.) A warning to any one for his appearance, in a cause in which he is not a party, for the information of the court and explaining a cause. For example, in the practice of Pennsylvania, when an attachment issues against a debtor, in order to secure to the plaintiff ac laim due by a third person to such debtor, notice is given to such third person, which notice is a G., and he is called the garnishee.

Gar'miture, n. [Fr., from garnir.] Decorative accessories; ornamental appendages; embellishment; furniture; equipment; dress.

France and the such control of the control of

Garo'ga, in New York, a post-village and township of Fulton co., about 40 m. E. of Utica. Manuf. Flour and

Garo'ga, in New York, a post-village and township of Fulton co., about 40 m. E. of Utica. Manuf. Flour and lumber.

—A small lake in Fulton co. Garoga Crock, in New York, enters the Mohawk River in Fulton, co., near Fort Plain.

Gar'on, Gar'on, or Gra'on, a promontory of Ireland, in co. Antrim, Ulster, extending into the Irish Sea, between Glenarm and Red bays, abt. 6 m. N. of Glenarm. Garome, (ga-row), one of the largest rivers of France, rising in the Spanish Pyrenees, near Mt. Maladetta, takes, at first, a N.E. course as far as Toulouse, from which city it flows generally N.W. to its mouth (or rather the mouth of its setuary, which bears the name of the Gironde), in the Bay of Biscay, about 55 m. N.N.W. of Bordeaux, and 130 8.8.E. of the mouth of the Gironde, is estimated at about 350 m., nearly 294 of which are navigable. It receives some considerable tributaries, as the Tarn, the Lot, the Dordogne, the Sare, Gers, Gimone, &c. Toulouse, Agen, and Bordeaux are situated on the G., which is connected with the Meditorranean by the Canal du Midl.

Garomne, (Hamtee,) a dep. of France, region S., formerly comprised in the prov. Languedoc, between Lat. 42° 40′ and 43° 55′ N., and Lon. 0° 27′ and 2° 3′ W., having N. the dept. Tarn-et-Garonne, E. those of Tarn and Aude, S.E. Arlège, W. Gers and Hautse-Pyrénées. Arca, 628,988 hectares. Surface. Its S.W. portion is covered with lofty mountains, the highest of which, Monte Maladetta, is 11,190 feet above the level of the sea, and among which there are numerous glaciers. In the N.E. there are some plains of considerable importance. Rivers. The Garonne, Tarn, Arlège, and Salat. Clim. Temperate. Soil. Highly fertile. Prod. This is essentially an agricultural dept., and is esteemed one of the most productive of grain; large quantities of vine are made annually. Near Toulouse, corn-fields, vineyards, gardens, and country-houses occupy every inch of land, and the appearance of the country-people bespeaks health and happiness. Min. Iron, copper, antimony, bismuth, sinc, and le

and woollen fabrics, leather, sail-cloth, watches, hats, and mathematical instruments. Chief towns. Toulouse (the cap.), Muret, St. Gaudens, and Villefranche. Pop. 632,489.



Fig. 1122.-THE CAPITOL, (TOULOUSE.)

Garco', a trading station of the Chinese empire, near a source of the Indus, 16,000 feet above sea-level; Lat. 31° 40' N., Lon. 80° E. Here an active commerce is car-ried on in exchanging Chinese and Thibetan commodi-ties for those of India and Cashmere.

Garook'uh, s. A fishing-vessel employed in the Per slan Gulf.

Garou'pas. Gar'ons. a

san our pas. See Porro Brilo.

ar'ous, a. [From Lat. garum.] Pertaining to garum resembling pickle made of fish; as, "a garous excretion." -- Brinone.

Gar'-pike, n. (Zool.) See Sauride. Gar'ran, Gar'ron, n. [Gael. and Ir. garran.]

smail horse; a galloway.

Gar'rard, in Kentucky, an E. central co.; area, about
250 sq. m. Rivers. Kentucky and Dick's rivers, and
Paint Lick Croek. Surface, undulating; soil, fertile.

Paint Lick Creek. Surface, undulating; soil, fertile. Cip. Lancaster.

Garrard's Fort, in Fennsylvania, a vill. of Greene co.

Garratts ville, in New York, a post-village of Otsego co., about 55 m. W. of Albany.

Garret, n. [Scot.; O. Fr. garite, a place of refuge, a little lodge for a sentinel, built on high; from garer, to beware, to take heed of.] That part of a house which is on the upper floor, immediately under the roof; an apartment in the highest story of a house; an attic.

"Born in the garret, in the kitchen bred."—Byon.

Garreteer. n. An inhabitant of a garret:—hence,

Garreteer', n. An inhabitant of a garret; —hence a poor author; a literary hack, (from such being for merly accustomed to sleep in garrets.) Garreting, n. (Building.) Small splinters of stone

a poor author; a literary hack, (from such being formerly accustomed to sleep in garrets.)

Garreting, n. (Building.) Small splinters of stone inserted in the joints of coarse masonry; they are stuck in after the work is built. Flint walls are very frequently filled up with garreting.

Garrettaburg, in Kentucky, a post-village of Christian co., about 214 m. W.S.W. of Frankfort.

Garrettaburg, in Kentucky, a post-village of Christian co., about 214 m. W.S.W. of Frankfort.

Garrettaville, in Ohio, a post-village of Portage co., on the Mahoning River, about 37 m. S.E. of Cleveland.

Mass/, Quite extensive, iron. carriages, &c.

Garricks, David, the most celebrated actor that has ever appeared on the English stage, was descende from a French family, who, being Protestants, field to England on the revocation of the Edict of Nantes. His father, Peter Garrick, was a captain in the army, and generally resided at Lichfield; but being on a recruiting party at Hereford, G. was B. there in 1716. He received his education partly at the grammar-school at Lichfield, and partly under Dr. Johnson, with whom he first came to London in 1736, and prepared himself for the study of the law. The death of his father, however, disturbed London in 1736, and prepared himself for the study of the law. The death of his father, however, disturbed



Fig. 1123. - GARRICE.

this arrangement; and having been left \$5000 by his uncle, he went into partnership with his brother in the uncie, he went into partnership with his brother in the wine-trade. A love for the stage had long been deeply rooted in his mind, and, abandoning the wine-trade, he resolved on being an actor. His first attempt was at Ipswich in 1741, under the assumed name of Lyddal; and the applause he met with induced him to make his appearance at the theatre Goodman's Fields, in the character of Richard III. The effect of this was immediate and decisive. The other theatres were quickly deserted, and Goodman's Fields became the resort of people of fashion, till that theatre was shut up. G. then formed an engagement with Fleetwood, the lesses of Drury Lane Theatre. The remainder of his career was a long and uninterrupted series of successes until its close, which took place in 1776, when he determined upon retirement, and sold his moiety of the concern for \$185,000. The last part which he performed was "Den Felix," in The Wonder, for the benefit of the Theatrical Fund. At the conclusion of the play, he addressed a brief farewell to the audience. The general feeling with which this was delivered and received rendered it truly impressive; and few persons ever quitted the stage and plaudits so loud and unanimous. In 1769 he projected and carried into effect the famous Stratford Jubilec, a striking proof of his enthusiasm for Shakspeare. It complete three days there, and its representation at the theatre hasted for 92 nights. This great actor D. Jan. 20th, 1779, his remains being interred with great pomp in Westminster Abbey. As an actor, G. seems never to have been equalled for truth, nature, variety, and facility of expression, though perhaps surpassed by some of his contemporaries in the enunciation of calm, sentimental eloquence. He wrote, or adapted for the stage, nearly 40 pleces, besides producing a great number of prologues and epilogues. The style of acting introduced by G. was the very opposite of that formal declamation practised before his time; it was natural, vigorous, and impassioned; the plays of Shakspeare grew into greater repute; and a reform both in the conduct and license of the drama, favorable to his taste and genius, was effected by his example. There is a fine portrait of G, painted by Pine, in the National Portrait Gallery, Lonfected by his example. There is a fine portrait of  $G_{\gamma}$  painted by Pine, in the National Portrait Gallery, London. His correspondence was published with a memoir painted

painted by Pine, in the National Portrait Gallery, London. His correspondence was published with a memoir in 1831.

Gar'rison, William Lloyd, an American philanthrepist, B. Dec. 12, 1804, in Newburyport, Mass. G. was early put to service, as errand-boy and cabinet-maker's apprentice, but first found his true vocation on entering into a printing-office in his native town. At the age of it he wrote annonymously for the paper on which he worked, and at 22 owned and edited the "Free Press." and, upon that failing, edited in Boston the first paper ever devoted to total abstinence, and at Bennington, Yt., a semi-political, semi-reformatory paper. In 1829 he was pressuaded by Benj. Lundy to join him in editing in Satimore the "Genius of Universal Emancipation." Here, for an article on the domestic slave-trade, he was prosecuted for libel, and, upon conviction, imprisoned til persuaded by Benj. Lundy to Join him in editing in Baltimore the "Genius of Universal Emancipation." Here, for an article on the domestic slave-trade, he was proscuted for libel, and, upon conviction, imprisoned till a friend paid his fine. Removing to Boston, he founded the "Liberator," (weekly.) in Jan., 1833, and continued to edit it to its close in Dec., 1865. In this paper he advocated not only immediate and unconditional emancipation, but also other reforms, such as peace, temperance, woman's suffrage, abrogation of capital punishment, and religious freedom. In Jan., 1833, he sassisted in founding the "New England (afterwards Massachusetts) Anti-Slavery Bociety," and, in 1838, the "American:" of which latter he was president almost from the first to his withdrawal from the society in 1865. From these sprung numerous other societies, until the Aboltionists became an appreciable and formidable body, though acting wholly outside of politics. The doctrine of the "Liberator" caused great excitement at the South, and, in Dec., 1831, the Georgia legislature offered \$5,000 for the apprehension of the editor or publisher. In Oct., 1835, G. was mobbed at a public meeting in Boton, by "gentlemen of property and standing." Party stripped, and with a rope about his middle, he was with difficulty rescued by the authorities, and lodged in jail for safety. G. foresaw the inevitable fate of slavery in the civil war, and celebrated its downfall on the ruine of Fort Sumter, and among the freed people of Charleston. In 1832, 1840, 1846 he visited England as a representative Abolitionist, and again in 1867 for his health, which was much impaired. On this last occasion he was fitted by the most eminent Englishmen, and presented with the freedom of the City of Edinburgh. Bis collected writings consist of Thoughts on African (Weir Pessa, (1843,) and Selections, chiefly prose, (1852.) D. 1879.

Carrissom, (gdr'resn,) n. [Fr. garnison, from the low Lat. garniso, ammunition, military stores.] (Mil.) A body of troops stationed in an

In partiest, qualities as a grant as one of a garrison.

-s. a. (Art.). To place troops in a fortress for its defence
to furnish with soldiers, as a town; to secure or defend
by fortresses manned with troops; as, to garrison a con-

"Others garrison the conqu

"Others garriese the conquests near the Rhine."—Dryden. Gan'rison's. in New York, a P. O. of Putnam co. Gan'rison ville, in Virginia, a P. O. of Stafford co. Gan'rom, n. See Ganna. George of Gan'rom, in Ireland. See Ganna. Gan'rot, n. [Fr.] (Surg.) A compressing bandar, tightened by twisting a small cylinder of wood, by which the arteries of a limb are compressed, for the purpose of suspending the flow of blood in cases of hemorrhaganeurism, amputation, &c. (Zoli.) A genus of the Duck family, widely distributed over the colder and temperate regions of both

(20%). A genus of the Duck family, widely distributed over the colder and temperate regions of both America and Europe. The head is large, compressed rounded above; bill shorter than the head, higher than broad at the base; neck short and thick; body orite and depressed; eyes small; legs very short, and placed

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Car behind; hind-toe lobed. They breed in the colder regions of Europe and America, returning to more tem-perate climes in winter. They haunt rivers, lakes, se-manics, and feed chiefly on mollusca, and also on larva,

Emaries, and feed chiefly on mollusca, and also on larves, crustaces, and sometimes small fish, for which they dive.

Sear rote, (sometimes written Gazotta). [8], gardte, a cudged, a post, or stake.] A mode of capital punishment in Spain, by seating the criminal on a stool, with his back to a stake, placing an iron collar about his neck, and tightening it with a screw until life is extinct.

-c. a. To effect strangulation by means of a garrote;—hence to seize one by the throat from behind, with an intent to rob, by a partial or entire strangling of the victim.

victim.

Garrote, (garrota,) in Culifornia, a post-village of Fuolume co., abt. 17 m. 8.8. of Sonora.

Garrater, (sometimes written Garoter,) n. One who serizes a person from behind with an intent to render him unconscious by semi-strangulation, and then rob him.

Garrate Mountains, a range of Farther India, surrounded by Bengal, Assam, and Jynteah; height from 3.000 to 4,000 feet. It is inhabited by an independent propile, who carry their surplus produce into Bengal.

Garratility, n. [Lat. garrutitas—garrutus, garrio, to chatter, to talk; probably from Gr. görpö, garyö, to speak, to cry; Sansk. root gri, to sound, to cry.] Talkativenes; loquacit reactice or habit of being garrulous or talking much. loos or talking much

lons or talking much.

Garrulous, a. [La. arrulus.] Talkative; loquacious; prone to practis. id indulge in prosy talk, with frequent repetitions; as, yarrulous old age.

Garrulously, ade. In a garrulous, talkative manner.

Garrulousness, n. Loquacity; talkativeness; incoment prattling.

cesant prattling.

Grav'ry, a river in Scotland, co. Perth, joining the Tummel after a course of 20 miles. It is celebrated for its pictureque scenery, and the post Hogg (the "Ettrick Shepherd") speaks of it in his beautiful song of Bonnie Prince Chartie, thus:

"Came ye by Athol, ind, wi' the philabeg,
Down by the Tummel, or banks o' the Gerry."

Carrya coes, n. pl. (Bot.) The Garra fam, a small
ord, of plants, alliance Garryales. There are but two
genera, which include six species, all shrubs found in
this country or in the West Indies. Nothing is known
of their properties.

this country or in the west indies. Nothing is known of their properties.

Garry Alem, n. pl. (Bot.) A small alliance of plants of the sub-class Diclinous exogens. Diac. Monochlamy-deous, sometimes amentaceous flowers; inferior fruit; and a minute embryo lying in a large quantity of albument. This alliance is divided into the two orders Garryze and Helwingiacez.

'ry Island, an island of British N. America, on

the Arctic Ocean, off the mouth of Mackenzie River; Lat. 69°:20' N., Lon. 135° W. Gar'ry Lake, a lake of British N. America, Lat. 66° N., Lon. 93° 30' W.

Limerick, whence the famous Irish national air of Garry Ocea takes its name.

Garry Over takes its name.

Garry Owen, in Iswa, a post-village of Jackson co., abt 15 m. S. of Dubuque.

Garrysburg, in N. Carolina, a post-village of Northampton co., abt 8 m. N. of Weldon.

Gars tamg, a town of England, co. Lancaster, 12 m. from the town of Lancaster. Manuf. Calicoes, cottons, and months.

from the town of Lancasca.

and worsted.

Gaster, m. [Fr. jarretière—jarret, ham, hough; W. gardas, gardys, from gar, the leg; Gael. gartan, a gardramard, armor, gâr, or jarr, the leg.] A band, string, or ligament used to the a stocking to the leg, so as to prevent it from slipping down.

e garters at your knees.

The badge of the highest order of knighthood in Great Britain, called the Order of the Garter; also, the order itself; as, the blue ribbon of the Garter. "Now by my George, my Garter." - Shake. (Her.) The half of a bend.

v. c. To bind or fasten with a garter.

(Her.) The half of a bend.

—e. a. To bind or fasten with a garter.

"Be being in love, could not see to garter his hose."—Shaks.

To invest with the Order of the Garter.

Garter, (Order of the.) (Her.) One of the most celebrated and ancient of all the orders of knighthood in Europe, instituted by Edward III. of England. The origin of this decoration is ascribed to a trifling accident, which occurred at a ball at which the king and the Countess of Salisbury were present. The countess is said to have dropped her garter whilst dancing; the king picking it up, and, observing some of the courtiers smiling, restored it to the countess, with the remark. Homis will quis mail y pense, "Evil be to him who evil thinks." and he shortly afterwards is said to have instituted the Order of the Garter, with the above motion as an incentive to chivalry amongst his knights. Another account states that it dates its origin from the reign of Richard Cour de Lion. who, during his battles in the Holy Land, ordered his knights to wear a white garter above their knee, to distinguish them from their Saracen fose; and that Richard, on his return to England, instituted the order in commemoration of that circumstance. Still, according to Ashmole, the date of the order is 144; and as the first of its statute is dated 1450, this seems tolerably accurate whence it follows that it was established in the reign of Edward III. Upon the original constitution of the order, it consisted of the sovereign and 25 knighte-companions. From time to time, nevertheless, statutes were passed for the admission of foreign sovereigns, and extra knights; but the latter are always admitted in among the 25 companions, as soon as vacancies occur. The Military Knights

of Windsor are also considered as adjunct to the Order of the Garter. The officers of the order

are, firstly, the Prel-ate, which dignity was first filled by William de Edyng-ton, bishop of Win-chester, and which is now vested in the bishop of Winches-ter for the time bebisnop of winchester for the time being; the office enabling him to take his seat in parliament next to the bishop of Durham The next officer is the Chancellor, who, until the year 1837, was the bishop of Salisbury (for the time being), but since the see of Oxford has included Berkshire and consequently the town of Windsor), the chancellor is always the bishop of Oxford. The Registrar, who is the Dean of Windsor, is the next official and after these sor, is the next offi-cial, and after these come the Gurter King-at-Arms, and the Usher of the Black Rod. All these



ORDER OF THE GARTER.

(Star, Collar, Badge, and Garter.) officers are bound to (Star, Cellar, Badge, and Garter.) attend the chapters of the order held in St. George's attend the chapters of the order held in St. George's Chapel, Windsor, on St. George's Day, where the instal-lations of knights are held, and they are sworn to ad-here to all the institutes of the order, and to promote its well-being to the best of their ability. The peculiar dress which distinguished the Order of the Garter from other similar institutions, at its first establishment, was a mantle, tunic, and hood of blue cloth lined with ermine, that of the sovereign differing from the knights by the fur of the lining being of miniver instead of ermine. All these three garments were embroidered with garters of blue and gold; and the garter itself was worn under the these three garments were embroidered with garters of blue and gold; and the garter itself was worn under the left knee, and was composed of dark blue velvet edged with gold, with the motto "Honi soit qui mal y pense" inscribed upon it in letters of gold; the buckle and pendant were likewise of the same precious metal. Henry VIII. added a collar, composed of pieces of gold worked in the fashion of garters, the centres of each being alternately white and red (alluding to the junction of the York and Lancaster families in the House of Tudor), and these links, or garters, were exactly 26 in number, typical of the strength of the order. He also added the greater and lesser "Georges," which consist of gold medallions with the figures of St. George and the Dragon worked in relief. Charles II. made the last alterations, substituting crimson for the surcoat and hood, and a lining of white taffets instead of ermine. The ribbon by which the medallion of St. George is suspended over the left shoulder is of blue — whence the expression "receiving the blue ribbon," employed sometimes to denote the being installed a member of the Order of the Garter. Down to the reign of Edward IV, some ladies, as the queens, &c., were admitted to share in the honors of this noble order; and the splendid appearance of Queen Philippa, clad in the habiliments of the Garter, is mentioned by Froissart as being very imposing. The dress and ceremonies are at present exactly as they were when first instituted, with the exception of the alterations above mentioned; and the Garter is still held to be, and will no doubt continue to hold its fame of being, the first knightly order in Europe.

rope.

Gar'ter-fish, n. (Zoil.) See LEPIDOPUS.

Gar'ter-snake, n. (Zoil.) The name of two species of harmless striped snakes, of the Coluber fam., common in the U. States.

Garth, n. [W. gardd, a garden.] A garden, croft, or naddock.

Garth, n. [W. gardd, a garden.] A garden, compaddock.

—A hoop; a band; a garter. (Used in some parts of Eng.)

—A dam or fish-weir.

Gartsside's, in Illinois, a post-office of St. Clair co.

Ga'runm, n. [Lat.] See ANGBORY.

Gas, n. [Probably from the German geist, a spirit.] The term applied to all permanently elastic fluids or airs.

The different gases will be described under their respective heads: in this article those properties only will be The different gases will be described under their respective heads; in this article those properties only will be explained that are common to all gases as a class. Gases have no cohesion; the peculiar properties of a gas seem to depend on the fact, that the repulsive forces existing between its particles are greater than the attractive forces. Consequently, the particles of a gas tend to recede from each other; and were it not for extraneous causes, the G. would expand—so far as is known—indefinitely into space. This natural tendency of gases is restrained on the surface of our globe by the pressure which the atmosphere exerts in consequence of its weight; but when this pressure is removed, the expansive tendency becomes at once manifest. The air which sive tendency becomes at once manifest. The air which is contained in the India-rubber bag (Fig. 1125), for ex-ample, is prevented from expanding by the pressure of the atmosphere on its exterior surface. If, however, we place the bag under the receiver of an air-pump, and

ere by exhausting the air, the bag will

remove the pres at once expand; and this expansion will con-tinue until the expansive tenexpansive ten-dency of the air is balanced by the elasticity of the bag. The the bag. The forcewith which a gas tends to expand is called its tension; and it is evident that, when in a state of rest, the tension of a gas must be exactly equal to the pressure to which it is exposed; for were this not the case, the force which was in excess would cause motion in the



a motion in the particles, which is inconsistent with the supposition. It appears, therefore, that in a gas, as in a liquid, the particles are in a condition of equilibrium; the only difference being, that in a liquid the equilibrium exists between the attractive and repulsive forces in the liquid itself, but in the gas, between the excess of repulsive forces in the body and an external pressure. In consequence of this condition of equilibrium, the particles of gases are endowed with perfect freedom of motion, and gases are therefore fluids. Gases are readily compressible, and are perfectly elastic. By subjecting them to pressure in tight vessels their bulk can be greatly diminished, but however long the pressure may continue, when it is removed they regain clases are readily compressible, and are perfectly elastic. By subjecting them to pressure in tight vessels their bulk can be greatly diminished, but however long the pressure may continue, when it is removed they regain at once their original volume. If two gases be brought into communication with each other, they will gradually mix or diffuse through each other, although this diffusion may have to take place in opposition to gravity. Thus if a bottle of carbonic acid be connected, even byanarrow tube, with a bottle of hydrogen placed vertically above it, some of the heavy carbonic acid will make its way into the upper bottle, and a corresponding volume of the light hydrogen will descend into the lower, and in a few days the two gases will be completely mixed. The same result will ensue if the two gases be divided by a porous disphragm, as a piece of unglazed porcelain, a plate of gypsum, or a thin membrane, and is called the osmose of gases. Were it not for the diffusive property of gases, the constituents of the air, differing as they do in specific gravity, would not maintain a constant mixture, but would form separate layers floating one above the other. The relative diffusibilities of different gases are inversely as the square roots of their specific gravities. The effusion of gases is a term used to signify the passage of a gas into a vacuum through a fine and infinitely short tube as through a minute aperture in a thin plate of metal. It has been proved that the velocity of effusion is the same as that of diffusion, that is, gases flow into a vacuum at rates inversely proportional to the square roots of their specific gravities. The frame piration of gases is the term applied to the passage of gases is the term applied to the passage of fow into a vacuum at rates inversely proportional to the square roots of their specific gravities. The same proportional to the square roots of their specific gravities. The same proportional to the square roots of their specific gravities. The same proportional to the

and nydroence and gases can be liquefied. It has recently been proved that oxygen, nitrogen, air, carbonio oxide, &c., can also be reduced to the liquid state.

Gasaller, (gas-a-lēžēr',) m. A chandelier for burning gas; a gas-lamp.

Gas'-burner, n. The extremity

Gas-burner, n. The extremity or point of a gas-fixture, where the gas is burned. The ordinary burners are either bat-wing or fish-tail. The bat-wing burner is a nipple, generally of cast-iron, across which a narrow slit is sawn, across which a narrow sitt is say, through which the gas escapes in a thin flame. In the fish-tail burner the nipple is pierced with two holes, so that two streams of gas impinge against each other and produce a flat flame. The Argand burner consists of a right placed with holes and are of a ring pierced with holes and sur- ARGAND BURNER



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rounded with a glass shade to regulate the supply of air and steady the flame. The sun-light consists of a ring of common burners set in the base of a reflecting cone that passes through the ceiling, and conducts away the products of combustion, and thus lights and ventilates the room at the same time.

GASL

ventiates the room at the same time.

Gas'coines, n. pl. Same as Gallioaskins, q. v.

Gas'coin, n. (Geog.) A native of the former prov.

of Gascony, in France.

Gasconnade', n. [Fr. gasconnade, from Gascon, an inhabitant of Gascony, the people of which prov. were
notorious for boasting.] A boast, or boasting; a vaunt;

harvardic: a hearing.

notorious for boasting.] A boast, or boasting; a vaunt; a bravado; a bragging.

—e. n. To boast; to brag; to bluster; to vaunt; as, he is a gasconading fellow.

Janscon adde', in Missouri, a river formed by the union of several branches in Pulaski co., and flowing a general N.E. course through Maries and Osage cos., enters the Missouri River from Gasconade co.

—An E. central co.; area, about 510 sq. m. Rivers. Missouri and Gasconade rivers, and Bourbeuse creek. Surface, uneven; soil, not very fertile. Mis. Copper, iron, and sulphur. Cap. Hermann. Pop. (1880) 11,708.

—A post-village of Gasconade co., abt. 36 m. S. of Jefferson City.

son City.

Gascomad'er, n. A vaunter; a braggart; a bluster

Season and 'er, n. A vaunter; a braggart; a blustering fellow.

Seas'comy, the name of one of the old prove of France, which comprised, prior to the revolution, the country now inclinded in the depts. Haute-Pyrénies, G. r., and Lawies, and portions of the territory now included in the depts of Basses Pyrénies, Haute-Garonne, and Lotel-Garonne. From 1152 to 1453. G. belonged to England, but in the last-named year it was definitely united to France by Charles VII. In the chronicles of the time the terms Gascony and Guienne are used as though they were synonymous. They were, however, distinct provs. Auch was the chief town of G.

Gaseous, (garé-us,) a. In the form of gas, or an aeriform fluid.

Gascoria, (garé-us.) a. In the form of gas, or an aeriform fluid.

Tenuous; fragile; wanting solidity.

Gas'-fitter, n. One who fits up the pipes, brackets, burners, &c., for gas-lighting.

Gas'-fitting, n. The business of a gas-fitter. The term gas-fittings is applied to the different contrivances for the application of gas-lighting, consisting of pipes, services, meters, burners, &c. Pipes laid in the ground are of cast-iron, and those through the building generally of wrought-iron, sometimes of lead; they should incline toward the meter, so as to allow the condensed moisture to flow back into it. If this inclination is not uniform, or is interrupted, an arrangement called a drip must be introduced to remove the water.

Gas'-fixture, n. One of the ornamental fittings or appendages at the extremity of the pipes which conduct gas from the meter to the different apartments of a building; a bracket, or chandeller for gas, including a stop-cock and burner.

Gas'-governer, Gas'-regulator, n. An apparatus employed to regulate and equalize the pressure of gas when flowing for bursing.

Gaska, n. [See the verb.] A deep and long cut; an incision of considerable length, particularly in fiesh.

-v. a. [Seemingly allied to hack and hach, and to Heb. gazar, to cut, to cut in two, to divide.] To cut; to make a gash, or long deep incision.

"Gaska' with honourable scars."—Mongomery.

a gash, or long deep incision.

"Gashed with honourable scars,"-Montgomery,

Gash'ful, a. Covered with gashes; — hence, by implica-tion, forbilding, frightful.
Gav'-holder, n. A vessel for holding gas. See Gas-

Light. Gasifica'tiou, n. Act or process of converting into gas. Gas'ify, r. a. [gas, and Lat. facto.] To convert into gas or an aériform fluid by combination with caloric. Gas'ket, n. (Naut.) A plaited cord fastened to the sail-yard of a ship, and used to furl and tie up a sail firmly to the yard, by wrapping it around both six or seven times, the turns being at a competent distance from each other. from each other.

from each other.

(Mach.) The plaited hemp used for packing the piston of the steam-engine and its pumps.

Gas'kill, in New York, a post-office of Tioga co.

Gas'kill, in Pennsylvania, a township of Jefferson co.

Pop. (1890) 682.

Gas'kills, n. Same as Galligaskins (q. r.).

Fop. (1830) a. Same as Gallioaskins (q. r.).

Gas-lamp, n. A lamp lighted by gas; a gasalier.

Gas-lamp, n. A lamp lighted by gas; a gasalier.

Gas-lamp, n. A lamp lighted by gas; a gasalier.

Gas-light, or III minathing Gas, n. The inixture of inflammable elastic fluids obtained by the destructive distillation of coal or other carbonaceous substances, coal, on account of its cheapnes, is almost altogether used for the production of gas in large quantities, and for this purpose those species of bituminous coal are chosen that contain the most hydrogen and are most free from sulphur. When coal is burned in the open air, or in an ordinary stove, the principal products are carbonic acid and water, small quantities of ammonia and sulphurous acid, and finely-divided carbon in the form of soot. When it is burned in close vessels, the products are much more numerous and complicated. The most important gaseous matters are light and heavy carburetted hydrogen gases, hydrogen, carbonic oxide, carbonic acid, sulphurous acid, sulphuretted hydrogen and ammonia. These separate as liquids coal-tar naphtha, and coalacid, sulphurous acid, sulphuretted hydrogen, and ammo-nia. These separate as liquids coal-tar naphtha, and coal-tar; and coke remains as a solid. To render the gaseous products available for lighting purposes, all the above-named must be removed except the light and heavy carburetted hydrogen, since they not only interfere with

the illuminating power of the gas, but their presence or the products of their combustion are injurious to health. The outlines of the process of manufacturing gas from

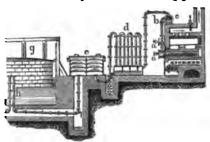


Fig. 1127. — MANUFACTURE OF COAL-GAS.

coal are briefly as follows:—Coal is heated in long flat-tened D-shaped cylinders of clay or iron called retorts, (a. a. Fig. 1127,) arranged in long brick furnaces. The mouths of the retorts are fitted with movable lids, ren-dered air-tight by a luting of clay. An iron pipe, b, rises from the upper side of the front of the retort, and is covfrom the upper side of the front of the retort, and is covered at the upper extremity, which passes into the side of a much wider tube, c, called the hydrawiic main, running above the furnaces, at right angles to the retorts, and receiving the tubes from all of them. The hydraulic main is always kept half full of the tar and water that condenses from the gas, and the delivering tubes from the retorts dip below the surface of this liquid, so that, although the gas can bubble freely through it as it issues from the retorts are open for a fresh charge. The aquemus portion of the liquid deposited in the hydraulic main is called the ammoniacal liquor, from its consisting chiefly of a solution of various salts of ammonis, principally the sesquicarbonate; sulphide, cyanide, and sulpho-cyanide of ammonium are also found in it. From the hydraulic main the gas passes into the condenser, d, supportyanide of ammonia the gas passes into the condenser, d, which is a series of bent iron tubes kept cool either by the large surface which they expose to the air. or sometimes by a stream of cold water. In these are deposited the remaining water and any of the volatile hydro-carbons and salts of ammonia that escaped condensation in the remaining water and any of the volatile hydro-carbons and saits of ammonia that escaped condensation in the hydraulic main. As the ammoniacal saits are not completely removed in the condenser, it is usually necessary to pass the gas through a scruber or case containing fragments of coke, over which a stream of water is allowed to trickle in order to absorb the carbonic acid and sulphuretted hydrogen. The lime-purifier is an iron box, in which the gas is made to pass over a mixture of slaked lime and sulphate of iron (green virtuol or copperss), mingled with saw-dust, to prevent their caking together; or sometimes it is a vessel in which a mixture of hydrate of lime and water is kept in a state of agitation while the gas is passing through it. The next operation, which is often omitted, is to pass the gas through dilute sulphuric acid, to remove the last portions of ammonia. The purified gas now passes into the pas-holder, (p.) from which it is supplied for consumption. The general shape of gas-holders is that of a cylinder, closed at the top, and floating or suspended with its open end in a reservoir of water. Since, with a given surface, a cylinder has the greatest capacity when its height is equal to ½ its diameter, the gas-holders are generally so constructed. They are made of sheet-iron plates, riveted, and coated with tar on both sides to make them gas-tight. They are suspended in the water y means of chains, and counterbalanced and guided by weights and wheels, so as to rise and fall with ease. Two tubes pass under and through the water, reaching weights and wheels, so as to rise and fall with ease. Two tubes pass under and through the water, reaching above its surface into the hollow of the gas-holder. One

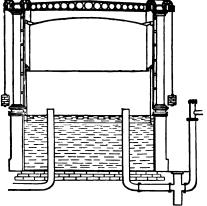


Fig. 1128. - TELESCOPE GAS-HOLDER.

of these, \(\hat{h}\), admits the gas from the purifiers, and the content, \(\hat{h}\), carries it off for use. As gas is admitted to the gas-holder 't rises in the water; and by lessening the Gasom'etry, \(\hat{n}\). [Fr. gasometric.] Art or practice of

is forced out through the pipe k to the street-mains. As the gas is discharged, the holder fills with water, and is ready to receive a fresh supply of gas. Most gas-works have a number of holders—some filling while others are emptying; and most holders are furnished with some contrivance for indicating the sacrt quantity of gas which they contain. The telescope gas-holder (Fig. 11.25), with the same diameter, holds a larger volume of gas than the one above described, and consequently requires less space of ground. It consists of two, three, or more consumer to the contains of the continue and the contains and the containing outward and upward, and the one at the top turning inward and downward. When the gas is introduced, the innermost cylinder rises first; and when its bottom reaches nearly to the surface of the water, its curred flange catches the flange of the next cylinder, which also rises,—and this in turn lifts the next, and so on. The escape of gas and the admission of air are prevented by the lower flange taking up a quantity of water, which acts as a water-lute. The temperature at which the gas is produced should be regulated with great care. If too low, the coal distills into the tar, and the gas is diminished in quantity and impaired in quality. If too high, the retorts are quickly burned out, and the olefant gas, the most valuable constituent of the gas, is decomposed. The use of the gases produced by the destructive distillation of coal for the purposes of illumination is of modern invention; but so long ago as 1688 Rev. Dr. Claylon dean of Kildsar, esserbed the method of filing by distilling coal in a retort upon an open fire. says: "I have frequently taken one of these iladders and these that were filled with common sir." In 1792, Mr. Wm. Maradoch, of Redruth, in Corwall, constructed a small gas apparatus, and in 1798 a larger and improved one, for lighting Boulton and Watt's large factory at Soho, near Birmingham, which, on the occasion of the peace of Amesa, in 1827, and in 1813-14 Westminster

moisture to be condensed in the pipes.

Gasom'eter, s. A term often applied to the gas-holder in gas-works; but it more properly means a smaller and more delicately constructed instrument, capable of scurately measuring the quantity of gas passing into and out of it. They are sometimes constructed of glass and iron, and contain mercury instead of water, so as to be used for gases that absorb water.

Gasomet'ric, a. Relating or pertaining to the measurement of gases.

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the measurement of gases and aëriform fluids. See Ex-

DIDESTRY.

Glas'escope, n. [Gus, and Gr. scopeo, to behold.] An apparatus for indicating the presence of bi-carburetted hydrogen gas in buildings, mines, or other places.

Glasp, v. n. [Dan. gisp, a gasp, gispe, to gasp; Icel. geipa, to open the mouth widely; allied to gape.] To open the mouth wide in catching the breath or in laborious respiration, particularly in dying; to labor for breath; to pant violently.

"The sick for air before the portal gasp." — Dryden.

"To long after with panting eagerness; as, "they gasped after their liberty." — Spectator.

-r. a. To emit, as breath, by opening wide the mouth convulsively; — used with out, sway, or forth; as, "he gasps away his breath." — Dryclen.

Gasp, n. Act of opening the mouth to catch the breath; the sbort catch of the breath in the agonies of death; labored or spasmodic respiration.

"Mentars to the latent case order dont for Warvick." — Shake.

"Montagu to the latest gasp oried out for Warwick." - Sh. At the last gasp, in great extremity; at the point of

" His name is at last gasp." — Shake

Casparilla, or Gasparil'lo, in Florida, the name of a sound and island on the W. coast, near Charlotte Harbor.

ins par Strait, a passage with a width of abt. 60 m. in the islands of Banca and Billiton in the China Sea. Gaspé, a dist. of prov. of Quebec, containing the cos. of Bonaventure and Gaspé, on the S. shore of the St. Lawrence River.

An E. co., comprising the peninsula of that name; area, about 4,063 sq. m. Rivers. St. Louis, Magdeleine, York, St. John's, and Mal Bay rivers. Surface, broken; soil, infertile. Cap. Gaspé.

—, or Gasré Basin, a town, port of entry, and the cap. of the above co., on Gaspé Bay, about 496 m. E. by N. of Chabec.

Onehec.

Gas per, in Ohio, a twp. of Preble co., traversed by the C. H. and I. R.R.

C. H. and I. K.K. "leas per, (Grand,) an island of S. America, in the Gulf of Paria, off the N.W. extremity of the island of Trinidad. "leas Port, in New York, a post-village of Niagara co., abt, 30 m. N.N.E. of Buffalo.

Gas'-regulator, n. See Gas-governor.
Gas'-retort, n. A form of retort used in the manufac

ture of gas. remem'ul, Pirrer, a French philosopher and mathe-matician, B. in 1592, at Chantersier, near Digne; in the words of Tennemann, the most learned among the phi-losophers, and the ablest philosopher among the learned of the seventeenth century. In speculative thinking, G. represented the Sensational School, of which he may be considered the founder in modern times; as such, he may stand against the Meditations of Descartes. In the eager polemics between these remarkable men, the critimay stand against the Meditations of Descartes. In the eager polemics between these remarkable men, the critical question of Sensationalism, almost in the form in which it still presents itself, was fairly raised; it must be conceded that the temper and moderation lay with G, although, in the estimation of the writer of this notice, the weight of argument belonged to his illustrious opponent. During the disputation, Gassendi had the merit of insisting that every mental conception of Principle is necessarily preceded by the fact of an Experience,—an assertion by no means sufficient to establish his philosophy, but remarkable as having first given expression to a maxim now held alike by Sensationalists and Idealista,—that in sensation is the beginning or the occasion of all knowledge: a maxim of which Descartes himself, perhaps, saw enough to render unjustifiable Locke's subsequent singular misrepresentation of the doctrine of innate ideas. This proposition granted, however, it in no wise follows, as G. contended, that the able locke's subsequent singular misrepresentation of the doctrine of innate ideas. This proposition granted, however, it in no wise follows, as G. contended, that the content of sensation is the measure of human knowl-edge; or that an Absolute and Necessary Truth is a mere generalization. Rational Psychology, according to Des-cartes, contradicts this: the attributes of universality and necessity cannot attach to simple generalizations; and these attributes belong to many of our ideas. It is hardly requisite to say that the dispute thus raised exists still; nay, the student desirous to master it will scarcely find better instructors than Descartes and G.—G. was one of our most distinguished reformers, at a G. was one of our most distinguished reformers, at a period when many great minds pushed forward the work of reform,—claiming independence for thought. It may be forgiven, perhaps, that in his early work against the authority of Aristotle he was not careful to seperate the true doctrines of the immortal Stagyrite from wretched and supless formules deduced from him by the Schoolmen; or that in his youthful zeal he failed to approach with rightful respect that great Shade to which so many ages have done willing reverence. His attack on Aristotle is the weakest of his writings, and cannot be acquitted of rashness; nevertheless, he was not wanting in respect for antiquity,—witness his treatment of Epicarus. His life of this philosopher is one of the best and most appreciatory memoirs, among the many that have been given of him; he wrote it con amore. The Atomic Philosophy suited G's predilections; and one respects the just ardor with which he vindicates the character of his master, and clears his doctrines from vulgar misapprehension. G's attachment to physical inquiries acter of his master, and clears his doctrines from vulgar misapprehension. G's attachment to physical inquiries was strong; although not an original discoverer, the labors of no man of that day contributed more to diffuse right principles regarding the method of physical in-quiry. In this department, his superiority to the Car-tesians cannot be questioned; Descartes himself knew too little of that sphere of pure Induction, within which what we term Law or general Truths can be nothing other than generalizations. As might have been expected, he adopted the Copernican system of the Universe, cautiously but intelligently; and greatly contributed to bring about a right understanding of its significance. He was a friend and correspondent of Galileo; he avowed himself the disciple of Bacon, and unquestionably his writings prepared the way for those of Locke. G's personal character was of the highest order; gentle, serene, and dignified; modest, not withstanding his wide repute; impartial and forbearing. D. in Paris, 1665.

1605.
Gas'sing, n. (Manuf.) The process of singeing net, lace, &c., in order to remove the hairy filaments from the cotton; — performed by passing the material between two rollers, and exposing it to the action of a large number of minute jets of fiame.
Gas'sinville, or Gassenville, in Louisiana, a village of \$8.

large number of minute jets of flame.

Gas'smyille, or Gassenvilles, in Louisiana, a village
of St. Charles parish.

Gas'sy, a. Full of gas; gaseous:—hence, inflated; bombastical; full of empty and insincere talk.

Gas'star, n. Same as Coalvar, q.v.

Gas'tar, n. Same as Coalvar, q.v.

Gas'tar, n. Ger, gater, stomach, and pous, podos,
foot; i.e., belly-footed.] (Zool.) One of the Gasteropoda.

Gasterop'oda, n. pl. (Zool.) A class of molluscous
animals which move from place to place by means of a
fleshy disc, or foot situated under the abdomen. The
greater part of these mollusca consist of animals inhabiting a univalve shell, which is cone-shaped and
rolled into a spiral; and of such the snall is a familiar
specimen. Some species, on the contrary, have no
shell; of which the slug is an example. The body is
elongated, and terminated in front by a head, more or
less developed, with a mouth provided with from two to
six tentacula; the back is enveloped in a mantle, which
secretes the shell; and the belly is covered on its under
side by the fleshy mass of the foot. In most aquatic
Gasteropoda whose shell is spiral, there is a horny or
calcareous disc, called the operculum, which is attached
to the hinder part of the foot, and is used for closing
the entrance of the shell when the animal withdraws
itself. Some of the Gasteropoda inhabit fresh waters,
but most of them are marine animals. The class is
composed of three orders: Gasteropora, and Preseropa.

Gasteropop'odogus, a. Belonging or relating to the OPODA, and PTEROPODA.

asterop'odous, a. Belonging or relating to the

Gasteropods.

Gas'tom, in Alabama, a post-office of Sumter co.

Gas'tom, in North Curolina, a S.W. co., bordering on S.

Carolina; area, about 340 sq. m. Rivers. Great Catawba
and S. Catawba rivers. Surface, diversified; soil, fertile.

Cap. Dallas. Pop. (1890) 17,764.

—A village of Halitax co., on the Roanoke river. Its P.O.
is Sourn Gastos.

Gas'tom, in Oregon, a post-village of Washington co., on
the Southern Pac. R.R.

Gastral'gia, (jé-a.), n. Gr. gaster, stomach, and algos,
pain.] (Add.) Impaired appetite, with gnawing or
burning pain in the stomach or epigastrium.

Gas'trie, a. [Gr. gaster, the stomach.] (Anat.) Pertaining to the stomach. (Physiol.) The digestive fluid
secreted by the lining membrane of the stomach. It is

reme use Surgee, n. (Physics.) The digestive fluid secreted by the lining membrane of the stomach. It is a clear, transparent fluid, a little saltish, and containing hydrochloric and lactic acids, also a peculiar organic substance called pepsine, q.v. The G.J. dissolves the food in the stomach, reducing the nutritious portions of it to a state fit for absorption into the system. See PRESENDE.

DIGRATION which refers most diseases to disorder in the digestive

which refers most disease to disorder in the digestive passages, or gastric region.

Gastril'oquist, n. [Fr. gastriloque, from Gr. gaster, the belly, and Lat. loquor.] A ventriloquist.

Gastril'oquouss, a. Ventriloque, (a.)

Gastril'oquouss, a. Ventriloque,

Gastril'iquous, n. Ventriloque,

Gastril'iquous, n. Ventriloque,

Inflammation of the stomach. It is known by paln in the epigastric region, (increased when anything is taken into the stomach,) vomiting and hiccough; the pulse small and hard; and general prostration of strength, attended by fever and anxiety. It is produced by poisons of various kinds taken into the stomach, as arsenic or corrosive sublimate; by food of an improper nature; by various kinds taken into the stomach, as arsenic or corrosive sublimate; by food of an improper nature; by draughts of any cold liquid when the body is much heated. It is a rapid and very dangerous disease, and requires prompt measures to be adopted. The means employed are copious and repeated general bleedings; the application of leeches to the epigastrium, followed by fomentations or the hot bath, after which a large blister may be applied. When acrid substances have been taken, mucilaginous drinks may be of use to aid their evacuation and protect the stomach, and when it their evacuation and protect the stomach, and when it arises from active poisons, the stomach-pump may require to be used.

das'trocele, n. [Gr. gaster, and kële, tumor.] (Med.) Hernia formed by the stomach through the upper part

of the lines albs.

Gastrocephali'tis, n. [Gr. gaster, kephali, head, and itis.] (Mcd.) Inflammation of the stomach and head.

Gastrody m'ia, n. [Gr. gaster, and odyne, pain.] (Med.) Same as Gastralola, q. v.

Gastrol'ogy, n. [Gr. gaster, and logos, speech.] A treatise on the stomach.

treatise on the stomach.

Gastrone'mius, n. [Gr. gaster, the stomach; kneme,
the leg.] (Anat.) The belly or calf of the leg; the term
is also applied to two of the muscles of that part. The
gastronemius externus arises by two distinct heads from
the inner and outer condyles of the os femoris, which
unite a little below the joint, and below it unites with
the anatogrammius discusses to form the tandon Achilles. the gastronemius internus, to form the tendon Achilles. The gastronemius internus, called also the soleus, is situated immediately under the above, and rises by two heads from the posterior part of the head of the fibula and the upper and posterior part of the tibia. The use of both these muscles is the same; namely, to raise the

heads from the posterior part of the head of the fibula and the upper and posterior part of the tibis. The use of both these muscles is the same; namely, to raise the heel and extend the foot.

Gastromome, Gastrom'ommer, m. [Gr. gaster, and nomos, a rule.] An epicure; a gourmand; one who is fond of good eating; a gourmet; a glutton.

Gastromom'ie, Gastromom'eal, a. [Fr. gastromomyea.] Having reference or pertaining to gastronomy; as, the gastromomic art.

Gastromomy, m. [Fr. gastronomic, from Gr. gastromomia—paster, the belly, and nomos, a rule.] Cookery is the art of preparing food so as to render it fit for digestion by the human body; and gastronomy is the science of good living, or of enjoying plentifully, though with prudent moderation, the pleasures of the table. Between cookery and gustronomy stands the cook, the greatest, or at least the most useful, of all functionaries, if we consider that there cannot be a sound mind where the stomach is not in a healthy condition, and that the cook is its great ruler. We therefore propose to illustrate in this article cookery, cooks, and gastromomy, as things essentially connected and almost inseparable. It appears that the attractive luxuries of the table were first appreciated by the Assyrians and the Persians, those voluptuous Asiatics who, by reason of the enervating mildness of their climate, were powerless to resist sensual seductions. Greece, "beloved daughter of the gods," speedily embellished the culinary art with all the exquisite delicacy of her poetic genius. Rome was long renowned for her austers frugality; and it is remarked that during more than five centuries the art of making bread was there unknown, which says little for her civilization and intelligence. Subsequently, the conquered nations, says Juvenal, a complete revenge on their conquerors. The unheard-of excesses of the table swilowed up patrimonies which seemed to be inexhaustible, and illustrious gourmands obtained a durable but sad renown. A passage in Macrobius, (a curious monument of Roma on their conquerors. The unheard of excesses of the table swallowed up patrimonics which seemed to be inexhaustible, and illustrious gourmands obtained a durable but sad renown. A passage in Macrobius, (a curious monument of Roman cookery,) gives the following account of a supper given by the pontiff Lentulus on the day of his reception:—"The first course (andecend) was composed of sea-hedgehogs, raw oysters in abundance, and all sorts of shell-fish, and asparagus. The second course comprised a fine fatted pullet, a fresh dish of oysters and other shell-fish, different kinds of dates, univalvular shell-fish (as wholks, conches, &c.), more oysters (but of different kinds), sea-nettles, beccaficoes, chines of roe-buck and wild boar, fowls covered with a perfumed paste, a second dish of shell-fish, and purples—a very costly kind of crustaces. The third and last course presented several hors-d'œuver,—ducks, potted river-fish, leverets, roast fowls, and cakes from the marshes of Ancona." Many of these delicacies would very much surprise an epicurean of the present day, particularly if they were offered to him in the order indicated by Macrobius. The author of a rare and very curious book, Medicas at Pulatum, formed the charitable project of reconciling medicine and gastronomy, by proving that culinary preparations do not poison—as it has been said—the food which nature gives us, and that cooks, far from being the destroyers, are the great benefactors of mankind; indeed, it is a common thing in men to throw upon cooks all the blame for which they ought to accuse their own intemperance. Gournandise would never rebel against the kitchen if all polyphagists had obtained from the goddess Ceres the gift she granted to Pandarea—a celebrated eater, who could pass days and nights at table without experiencing the slightest inconvenience. Soneca, the atrabilarious preceptor of Nero, combats, it is true, "those dangerous men who have busided with a single stomach, and who lay the foundation for a train of maladies," (Epist. 95 workmanship, of the rarest wood, all alike, and ornamented with precious incrustations. (Dio, in Nore.) How often have people extolled the Lacedsemonians and their legislator Lycurgua-strange lawgiver of a strange people, who never learned to eat, and yet who invented the celebrated "black sauce," the jus nigrum, for which the entrails of the here served as a foundation. Hence, true it is that cookery always preserves certain imprescriptible rights over the most fervent disciples of frugality. Mankind had long obeyed that imperious and periodical necessity which has been called hunger, before any one thought to form a code of doctrine calculated to guide a sensation which, if its demands be judiciously gratified, procures us the most unique and lasting pleasures. The primitive nations, no doubt, gave themselves up to their mere native gluttony. They ate much, but they fed badly. They had no cooks in the serious and most complete acceptation of the word. Homer's heroes prepared their repasts with their own hands, and prided themselves on their culinary talents. Ulysses surpassed all others in the art of lighting the fire and laying the cloth. (Athen. i. 31.) Patroclus arew the wine, and Achilles very carefully turned the spit. (Homer. Ikiad.) The conquerors of Troy shone more in the combat than under the tent which served them as

kitchen. At length the aurors of the magian ages began to dawn. Man had hitherto known only hunger; he was now to become acquainted with satisfying that hunger on gustatory principles. The king of Sidon learns how to eat; and it is Cadmus, grandfather of Bacchus, the future founder of Thebes, who takes upon himself to instruct his own august palate. In the time of Alcibiades the best cooks came from Sidily; Trimialcio was one of the most celebrated. Atheneus tells us that, when he could not proguer are and highly externed. to instruct his own angust palate. In the time of Alcibiades the best cooks came from Sicily; Trimialcio was one of the most celebrated. Athensus tells us that, when he could not procure rare and highly esteemed fish, he understood so well how to imitate their form and fiavor with common fish, that even the most cunning epicures were invariably deceived; — which reminds us of the cook of Louis XIV., who, on a Good Friday, served the king with a dinner, apparently composed of poultry and butcher's meat, but which, in reality, consisted of vegetables only, and prepared, too, as marigre. The Romaus, inheritors of the luxury of Asia and Greece, did not erect a temple to the greedy Adephagia, goddees of good cheer, who possessed altars in Sicily (Elian, Var. Hist., 27); but they thought it impossible to remunerate too highly those who knew how to extend the limits of the pleasures of the table. Antony gave a supper to Cleopatra, and that princess praising the excellence of the repast, her lover immediately called for the cook, and presented him with a city in recompense. How far the most sumptuous banquets of us moderns are behind the most modest collations of Greece and Rome! Lucullus caused to be served to Cleero and Pompey a little ambigu, which cost \$5,000. There were only three of them to partake of it! The Emperor Claudius had generally 600 guests at his table (Suctom. in Claud. 32). Vitellius did not spend less than \$16,000 upon each of his repasts, and the composition of his favorite dishes required that vessels should regularly ply between the Gulf of Venice and the Straits of Cadia, in the pursuit of delicacies (Suctom. Dio). Galba breakfaste before daybreak, and the composition of his favorite dishes required that vessels should regularly ply between the Gulf of Venice and the Straits of Cadia, in the pursuit of delicacies (Suctom. Dio). Galba breakfaste would have enriched a hundred families. Ellius Verus invented the pentapharmacams, a kind of macédoine, composed of sows fanks, pheasants, peacocks, ham, cooks of those days strove to acquire a reputation by inventing strange and grotesque sauces, which had no other merit than that of being surprising and difficult to make, as, for example, eggs cooked on the spit; butter fried or roasted, &c. We recognize in some of our most common ragodls those of which our ancestors were so fond in the Middle Ages, such as the bauf a lamode, it la persillade, au vinaigre et persil, le mirotom de bauf, vasu percé de gros lard, fricassée de poulet, blanquette de veau rôti; but we have lost the pat pourri, composed of beef, veal, mutton, bacon, and vegetables, and the galimarfrée (gallimaufry), a kind of fricassée of fowl, seasoned with wine, verjuice, and spices, and thickened with the famous sauce Cameline. The cooks frequently placed on their masters' tables ragodls and other dishes borrowed from other nations; as, for example, a German brouet, a Flemish chaudeau, eggs de la Florentine, and partridges à la Catalane. They knew the



Fig. 1129. - JEWISH SUPPER.

olla, a mixture of all sorts of vegetables cooked with different kinds of meats, an invention of the Spaniards,

as well as the ragout of fewl called d la Chipolala, and the kenefles, a kind of forced-meat balls made of bread and meat, to which the Suabians are very partial, and the pilas, a dish of mutton, fewl, and rice, borrowed from the Turks.—The Jews originally sat down to their meals; but when they became subject to Persia, they laid on conches at their repeats (see Fig. 1129), like their conquerors, and other Oriental nations from whom the Greeks and Romans borrowed their custom (Hor. Sat. ix. 8, 9). The most distinguished place was at the head of the table, at the extremity of the room, near the wall. Under the reign of Solomon, the Hebrews still used seats. The Egyptians were early acquainted with the effeminate sumptuousness of table conches (Ptron. 4 Nodot. tom. i. p. 124). Homer's heroes sat down to table, and Alexander the Great appears to have preserved the custom. That prince, giving a repast to 10,000 persons, caused all to be seated in silver armchairs, covered with purple. Italy always imitated Greece, and like her had table couches, which at first were used only by men; a feeling of propriety interdicted their use by women. But the relaxation of morals, seconded by fashiou, soon banished this seeming reserve, and the two sexes could only ext in a reclining posture. (Athen. iv.) Among the Persians, the middle place was reserved for the king. In Greece the most distinguished personage occupied the head of the table. The Celts seated themselves at their repasts on hay, before very low tables; the Belgians reclined on a kind of couch; as well as the ragout of fowl called d la Chipolata, and reserved for the king. In Greece the most distinguished personage occupied the head of the table. The Colts seated themselves at their repasts on hay, before very low tables; the Belgians reclined on a kind of couch; the Gauls on the skins of dogs or wolves (Martial. xiii. 44). As an example of the magnitude and component substances of a dinner of the Middle Ages, we give the following bill of fare of the banquet given by the great Earl of Warwick (the "King-maker") on the occasion of his brother's installation as Archbishop of York, in 1479: 300 qrs. of wheat; 300 tuns of ale; 104 tuns of wine; 1 pipe of spiced wine; 10 fat oxen; 6 wild bulls; 300 pige; 1,004 wether sheep; 300 hogs; 3,000 calves; 300 capons; 100 roast peacotis; 200 pensans; 500 ducks; 204 bitterns; 400 herons; 200 pheasanns; 500 qualis; 100,000 eggs; 200 roes; 4,000 roebucks; 155 obt venison pasties, and 4,000 cold ditto; 400 pises; 2,000 hot custards, and 4,000 cold ditto; 400 tatts; 300 pikes (fab); 300 bream; 8 seals, and 4 porpoises. At this monster "spread," the earl himself acted as steward; the Earl of Bedford was treasurer, and Lord Illustings, comptroller, with many other noble officers; 1,000 servitors or waiting-men; 62 chief cooks, and 515 under-cooks and acullions.—An Inexhaustible fund of information respecting G. and the noble art of cookery may be found in the works of Brillat Savarin (Physiologic dus Goût), Ude, Carême, Francatelli, Soyer, and Baron Brise.

Baron Brise.

Gas'tropod, n. (Zoil.) See Gastenopod.

Gastrop'odous, a. Same as Gastenopodous, q. v.

Gastroraphy, (gastrof'a-ft.) n. [From Gr. gaster, and raphe, a sewing.] (Surg.) The operation of sowing up wounds of the abdomen.

matrot'omy, n. [Gr. gaster, and tome, a cutting.]
(Surg.) The operation of cutting into the abdomen,—an operation sometimes resorted to in desperate cases, as operation sometimes resorted to in desperate cises, as when, in consequence of a rupture of the uterus, the child escapes into the peritoneal cavity.

\*\*as-water, n. Water through which illuminating gas has passed from the retorts to the gasometer, used as manure.

Gas'-works, n.pl. A place or works where gas is

Gat, imp. of Gat, q. v.
Gat'ta, (Cape.) a headland of Spain, on the coast of
Granada, bounding the bay of Almeria; Lat. 36° 43′ N.,
Lon. 2° 22′ W.

other dishes borrowed from other nations; as, for example, a German broust, a Flemish chaudeau, eggs à la Florentine, and partridges à la Cutalane. They knew the Gate, n. [A. 8. geat, gat; Dut. gat, a hole; Icel. gata, a way, path; Sansk. gatt, a way; root gi, to go.]

A large door which gives entrance into a walled city or large edifice; also, the entrance; a frame of timber, iron, &c., which opens or closes a passage into any inclosure; also, the passage.—The frame which shuts or stops the passage of water through a dam, lock, &c.; an avenue

(Script.) Power; dominion.

"The gates of hell shall not prevail against it." - Matt. xvi. 18.

(Script.) Power; dominion.

"The gastes of heil shall not prevail against it."— Matt. xvi. 18.

(Founding.) The gutter or ridge through which the molten metal is poured.
—In Scotland, a provincialism for a way, path, or passage.

Gat'ed, a. Having gates.

Gat'ed, a. Having gates.

Gat'ed, or nobleman's demesne. (Now generally called lodge.)— A house forming an entrance to a private mansion, or to any palace, public building, &c.

Gate'house, a river-port of Scotland, co. Kirkcudbright, on the Fleet, 28 m. S.W. of Dumfries. Trade. Agricultural. Php. 1,798.

Gate'less, a. Having no gate.

Gate's, HORATIO, an American officer, B. in England, 1728.

He served with distinction in the British army till the year 1763, when he bought an estate in Virginia, where he resided until the organization of the continental army in 1773. Appointed adjutant-general with the rank of brigadier, he accompanied Washington to Cambridge in July, 1775, and, in June, 1776, received the chief command of the army which had just retreated from Canada. In Oct., 1777, the surrender of the British army at Saratoga gave to him a brilliant military repute, soon after blasted by the disastrous battle of Camden, Aug. 1780. He was then superseded by Gen. Greene, and it was only after the surrender of Cornwallis that he was restored to his military position. On the conclusion of was only after the surrender of Cornwallis that he was restored to his military position. On the conclusion of

peace, he returned to his detate in Virginia, whence, after emancipating all his slaves, he removed to the city of New York. Died in 1808.

Gates, in Missouri, a post-office of Greene co.

Liates, in N. Carolisa, a N. N. E. co., bordering on Virginia; area, about 360 sq. m. Risers. Nottoway, Meherrin, and Chowan rivers. Surface, level; soil, fertile. Cap. Gatesville. Pop. (1890) 10,252.

Gates, in New York, a post-town of Monroe co., 3 m. W. of Rochester. Pop. (1897) about 3,200.

Gates, or Gates' Mills, in Okio, a post-village of Chysloga co., on the Chagrin river, about 16 m. E. of Cleveland.

Gates' Read, a borough of England co. Purham of

Cleveland.

Gates'head, a borough of England, co. Durham on the S. bank of the Tyne, which divides it from Newcastle, 275 m. N. of London. Mossef. Iron-smelting, working, and glass. Pop. (1885) 87,90.

Gates'wille, in New York, a village of Washington co, about 53 m. N. by E. of Albany.

Gates'wille, in Texas, a city, cap. of Coryell co, on Leon river, 80 m. N. of Austin. Pop. (1897) about 2,650.

Gate'welm, n. (Anat.) The vens ports, which conveys the blood to the liver.

Gate'way, n. (Arch.) A way under an arch, or

the blood to the liver. The two younder an arch, or through the gate of some inclosure; also, the gate or entrance itself. The gate-ways or gate-houses of the Middle Ages were often large and imposing structures; they were erected over the principal entrances of the precincts of religious establishments, colleges, &c., and sometimes also of the courts of houses, as well as castles and other fortifications. In military edifices the entrance usually consists of a single archway, large enough to admit carriages, with a strong door, and portculis at each end, and a vaulted ceiling pierced with holes through which missiles can be cast upon an enemy; the sides of the gateway are generally flanked with large projecting the gateway are generally flanked with large projecting

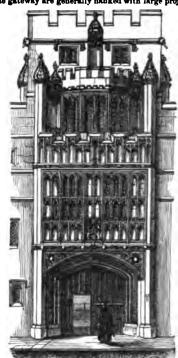


Fig. 1130.

GATEWAY OF BRASENOSE COLLEGE, OXFORD, (England.) GATEWAY OF BRASENOSE COLLEGE, OXFORD, (England.) towers pierced with loop-holes, and the upper part terminates with a series of machicolations and battlemented parapets. In civil edifices there is much greater diversity in the forms and architectural arrangements of gatehouses; sometimes they resemble plain square towers of rather low proportions, with a single turret containing a staircase, or with a turret at each of the front angles, and occasionally at all the four angles; but in this case those on the front are generally the largest and the most ornamental. When the building is of sufficient height to allow of it, there is generally a room over the hereby with one or more large windows. Fig. 1180 archway, with one or more large windows. Fig. 1180 represents the fine gateway of Brasenose College, at

represents the fine gateway of Brasenose College at Oxford.

Gath, a city of the Philistines, and one of their five principalities. It was the home of Goliath, and here David sought a refuge from Saul. Its inhabitants were called Guilles.

called Gillies.

Gath, in Tennessee, a post office of Warren co.

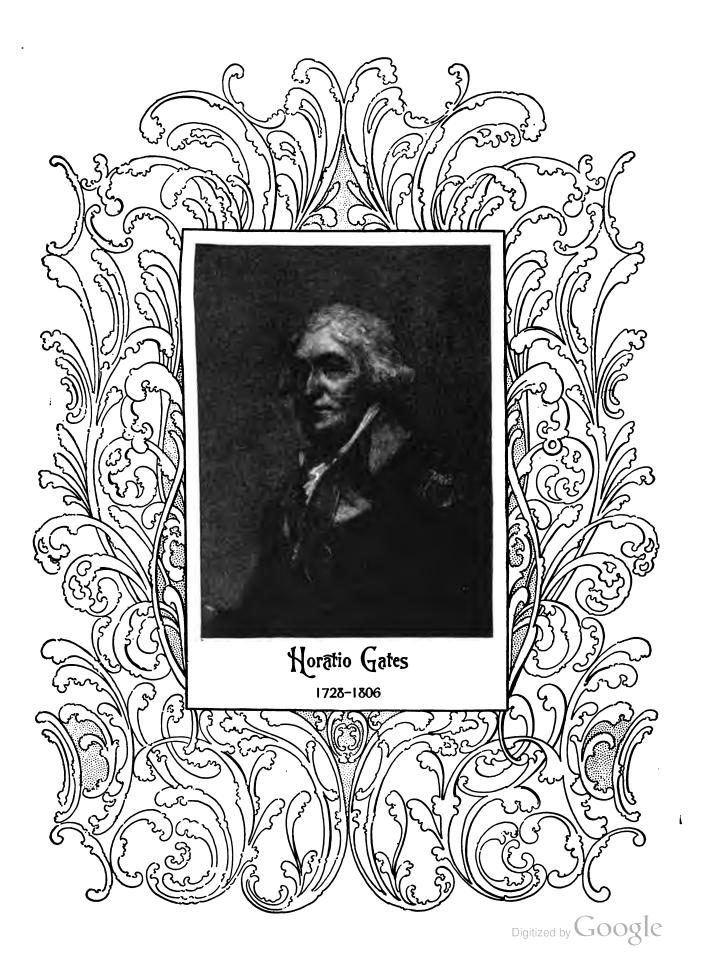
Gath'er, v. a. [A. S. gaderian, gadrian; D. gaderen;

te-gader, together; allied to Icel. gadda, to press together,
and probably to Gr. ageirő, to bring together, from apå,

to lead.] To bring together; to collect; to accumulate; to amass; to congregate; to muster; to assemble.

And Beigium's capital had gathered the Her beauty and her chivalry." — Byre





To sweep together; to bring into one ody or interest; to gain; to accumulate; to amass in large quantity or numbers; to heap up; as, "to gather up money by degrees." (Locks.)—To compress; to contract; to make compact; to bring closely together; to pucker; to plait; as, to gather cloth or needle-work.

"Gathering her brows like gath

To collect logically; to deduce by inference; to infer by reasoning; to conclude.

"Let me say no more;
Gather the sequel by that event before." — Shake.

To gather breath, to take breath; to suspire; to recover

to take respite. er, v. s. To assemble; to congregate; to muster Gath'er, v. s. To as to collect; to unite.

"The evening is beginning to gether in." — Hastist.

"To increase; to grow larger by accretion of similar matter; as, a snow-ball gathers by degrees. — To generate pus or matter; to come to a head, as a sore; as, a gathered finger. — To come to a conclusion; to make ingalacted finger. — To come to a conclusion; to make inference by deduction.

a. A plait or fold in cloth, made by drawing the thread

through; a plait; a pucker; a wrinkle.

Gath'ered, p. a. Assembled; collected; plaited.

Drawn by way of inference.

Gath'erer, n. One who collects.
Gath'ering, n. The act of collecting or assembling.

— A collection; a crowd; an assembly. — A collection of pus; an abecess.

(Printing.) The making up the sheets, after they are printed, into a complete set ready for the book

Catinais, (gd'te-nai,) an old division of France, now subdivided into the departments Loire, Scine-et-Marne, Nièrre and Young

Alerr, and Ionne.

Catineau (gai-ono'), a river of Quebec, rises between lat 45° and 50' N., and about 75° 30' W., and, flowing S. enters the Ottawa river opposite Ottawa. Longh, about 300 miles.

Gat'to, Ga'to, or Agat'ton, a town of W. Africa. See

Gatum (ga-loon'), in the Republic of Colombia, a river of the Isthmus of Panama, which enters the Chagres River abt. 5 m. from the Caribbean Sea. — A town at

awer abt. 5 m. from the Caribbean Sea. — A town at the confluence of Gatun and Chagres rivers.

Camehe, (gūsh.) a. [Fr., left-handed.] Unskilful; awkrard; unbandy; diffident; ignorant of the rules of good breeding and society; as, a gauche manner.

Cameherie, (gūsh'eree,) n. An act so awkwardly done as to be ridiculous.

good breeding and society; as, a gauche manner.

Gameherle, (gōsh'er-ec.) n. An act so awkwardly done as to be ridiculous.

Gam'ehoes are scattered tribes of Indians, who have intermarried among the Spanish descendants, and who, mixed in religion as in blood and manners, may be regarded as the wild sovereigns of those vast plains called the Pumpus, extending from the Paraguay to the frontiers of the Gran Chaco. These native G. are possessed of vast herds of wild horses and horned cattle, and roam over the country in a semi-savage independence. They are the most expert horsemen in the world, and keep their hold of the animal in any position, whether under his counter, along his fiank, or hangling by the bent knee from their courser's neck. The arms of the G. are a lance, and the bolas, and lasso, with a knife stuck into the girdle. In the use of the bolas and lasso they are dexterous to a degree of accuracy perfectly surprising; with the former—which is a waspon composed of two balls of heavy wood, attached, like chain-shot, by a long thong of leather—they capture the largest animal and the smallest bird, which they effect by throwing it in such a manner that it shall involve either the two fore or hind legs, and thus throwing the animal down, keep him captive till the hunter has time to reach and dispatch his conquest. With birds, the bolas, twining round the body, firmly bind the wings to the side, and brings the captive powerless to the ground. In woods and where there is not space to east the lasso, the bolas is singularly serviceable, and can be used as effectually against an enemy as against beasts of prey, or in the chase. As an arm in their wars, the bolas is very formidable for swinging through the air with immense momentum and speed; no agility san escape it, and, encircling the neck of the victim in three or four rapid and tight ligatures, it produces strangulation long before the captive can raise a hand to free himself from the deadly garrote. Where torture is intended, it is so thrown as only to pr a fence of impenetrable cactus.

and, no. [Lat. gaudium.] An ornament; a fine thing anything worn as a sign of joy.

"All the gaude the simple natives wear."

Gand'day, n. See Gaupt.
Gand'day, n. See Gaupt.
Gand'dems.(St.,) a town of France, dep. Haute-Garonne, cap. of arrond., on a hill near the Garonne, 48 m. S.W. of Toulouse. Manyf. Serge and tape. Pyp. 5.781.
Gand'dery, n. Finery; ostentations luxury of dress.

mph was not pageants and gaudery."

Gand'fill, a. Showy; joyful.
Gand'fill, a. Showy; joyful.
Gand'filly, adr. With vain show; ostentatiously.
Gand'diness, n. Showiness; tinsel appearance; ostentatious finery.
Gand'dish, a. Same as GAUDY, q. s.
Gand'less, a. Void of ornament.

-To pick up; to glean; to harvest; to get in small parcels and bring together; to collect by cropping, picking, or plucking, as fruit; to cull; to select.

"Gather ye rose-bads while ye may." — Berrick.

"Gather ye rose-bads while ye may." — Berrick.

Gay; merry; festive.

"Let's have one other gaudy night."— Shaks.

—n. A feast; a featival; a day of revelry. (Oxf. Univ.)
Gaunffer, v. a. [Fr. gaufrer, to figure, or work figures
on cloth, relvet, &c.; from Sp. guafas, L. Lat. gaftum.
Cf. Eng. woffe, q. v.] To goffer; to plait; to crimp; to

Gauffering, n. A manner of plaiting or crimping, where the flutes are unusually wide.

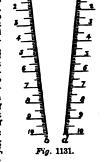
Gauge, (page.) v. a. [Fr. jauger, a word of uncertain etymology; possibly from lat. qualificare.] To measure or ascertain the contents of a cask or vessel. — To measure ure in respect to proportion, capacity, or power; to estimate; to measure.

Taking measure or gauging his heroes."

"Taking measure or gauging his heroes." — Pops.

—n. [O. Fr. gauge; Fr. jauge, the instrument with which a cask is measured.] An instrument or apparatus for measuring any special force or dimension; thus we have pressure-G, wind-G, (see Annometrae), rain-G. (q. v.), wire-G, button-G, &c. The simplest form of gauge of dimensions is the common wire-G, by which the diameter of wire is measured. It is simply an oblong plate of steel, with notches of different widths cut upon the older: these are numbered and the size of the wire is of steel, with notches of different widths cut upon the edge; these are numbered, and the size of the wire is determined by trying it in the different notches until the one is found which it exactly fits. The thickness of sheet-metal is tried by the same G. A very elegant and delicate G. has recently come into use for measuring watch-glasses, and is applicable to many other purposes. On an oblong piece of sheet-metal, two straight metal ridges are fixed in such a manner that they shall be

ridges are fixed in such a manner that they shall be inclined at a given angle to each other, as a b and ca (Fig. 1131). Now, let us suppose the angle to be such that the distance between a and c is 2 inches, and that be-tween b and d is 1 inch, while the lengths ab and cd are 10 inches. It is evident that for every inch of de-scent from a and c towards b and d, there will be a narrowing equal to  $\frac{1}{10}$  of an inch; and for every tenth of an inch of such descent there will be a narrowing of 100 of an inch, and so on:



thus we may, by graduating downwards from ac to bd., Fig. 1131.

measure tenths by units, hundredths by tenths, and so on to still finer quantities, if required. This is applicable to lengths as well as diameters. By means of fine screws with large graduated heads, small pieces of steel to the one-millionth of an inch have been measured (see MICROMETER). Pressure-G., wind-G., &c. will be treated under the special sure-o., wind-o., &c. will be treated under the special subjects.
(Naut.) The number of feet a ship sinks in the water. Pointing of a ship with respect to another ship and to the wind.

(Railroads.) The distance between the rails

(Gun.) The calibre of a gun.
(Musonry.) A mixture of fine stuff and plaster, or putty and plaster, or coarse stuff and plaster; used in finishing the best ceilings and for mouldings, and some-

nnishing the best ceilings and for modulings, and sometimes for setting walls.

Gauge'able, a. That may be gauged or measured.

Gauge'able, a. (Mach.) One of the two or three small cocks fixed in front of the boiler of a steam-engine, for the purpose of ascertaining the height of the water.

Gauge'alass, n. (Mach.) A strong glass tube, connected with the boiler of a locomotive-engine by two nected with the boiler of a locomotive-engine by two cocks attached to the gauge-cock pedestal. The water is admitted to this tube by the lower cock, the steam by the upper cock. It thus becomes an index to what is going on inside the boiler, exhibiting the height or agitation of the water in it. A small cock is placed below the glass for blowing out any sediment which may be described in it.

Gauge-point, s. A term used in gauging, to de note the diameter of a celinder — hearthis. note the diameter of a cylinder whose altitude is 1 inch, and its content equal to that of a unit of a given measure. For example, the old wine gallon contained 231 cubic inches. The diameter of a cylinder of the same capacity, and whose altitude is 1 inch, is 17-15 inches: which, therefore, is the gauge-point for this

Gauger, (gd/er.) n. An officer whose business is to ascertain the contents of casks; a surveying officer un-

ascertain the contents of casks; a surveying officer under the board of excise.

Gauging, (Affing), n. (Com.) The method of determining by actual measurement the number of gallons contained in vessels intended to hold goods,—chiefly casks, barrels, vats, &c. The principal use of G. is in the collection of the revenue, in which it is necessary to measure the bulk of vessels, without disturbing their contents. The principles of gauging are those which are furnished in geometry for the measurement of solids. As, however, the men who are engaged either in commerce or by the excise for the purpose of G. are not likely, in general, to be acquainted with the principles upon which the art depends, a set of technical rules and appropriate instruments have been contrived,

by which the art can be practised by any one of moderate intelligence. The instrument usually employed is the G. rod, or diagonal rod, by which the contents of a cask are inferred from its diagonal length, measured from the bung-hole to the extremity of the opposite stave at the head. A scale of inches, for taking the measure of the diagonal is described on the force of a recommendation of the content of the stave at the head. A scale of inches, for taking the measure of the diagonal, is described on one face of a square rule, usually about four feet long; and on the opposite face is a scale expressing the corresponding contents of the cask in gallons. Although this method, obviously, can only give approximate results, yet, by using larger sliding-rules for calculation, and the aid of habit, derived from experience, it is possible to attain considerable accuracy in measuring the contents of casks, which do not depart from a given standard of form.

Gaufang-red, n. See Gaucino.

France.

Gau'ley Bridge, in W. Virginia, a post-village of
Fayette co., at the junction of the Gauley and New or
Kanawha rivers, abt. 160 m. S. of Wheeling.
Gau'ley River, in W. Virginia, enters the New or
Kanawha rivers in Fayette co., abt 36 m. above Charles-

ton.

ton.

dault, (gaselt.) (Geol.) A local name for a series of dark blue maris or calcareous clays found in the middle cretaceous system of England. It can be well examined at Cambridge and Folkestone. The word G. is a provincial term for the clay itself, which is much used for brickmaking. It contains marine shells, and decomposes into a very fertile soil.

Gaulthe'ria., n. (Bot.) A genus of plants, order Ericaces, the fruit of which is a 5-valved capsule, covered with the enlarged and fleshy tube of the calyx. They are natives of temperate regions. G. procumbers (see Fig. 144) is a common plant in this country as far south as Virginia, and bears the names of Partride-berry.

Fig. 144) is a common plant in this country as far south as Virginia, and bears the names of Partridge-berry, Deerberry, Winter Green, Box-berry, Checker-berry, and Mountain Tea. It is about 4 or 5 inches in height with small whitish flowers and red berries, which are estable, but not safe in any considerable quantity, because of the pungent volatile oil which they contain. Brandy in which they have been steeped is used as a tonic. The whole plant has an agreeable aromatic odor and taste, owing to the presence of volatile oil, which, when extracted, is used in medicine as a stinulant, also by druggists for flavoring syrups, and to a considerable oxtent in perfumery, under the name of oil of Winter Green. The leaves are used both as an astringent and as a stimulant; and an infusion of them is sometimes used as a substitute for tea. The oil is isomeric with anisic acid. isomeric with anisic acid.

teomeric with anisic acid.

Saunt, a. [A. S. genoaman, to lessen, pp. gewaned.]

Lean: meagre; thin; attenuated; hollow; empty,—as
an animal after long fasting.

"Two mastiffs genera and grim."—Dryden.

"Two mastife general and grim."—Dryden.
Gaunt'let, n. [Fr. gantelet, from gant, a glove.] A covering for the hand with metallic plates on the hinder part, worn in former times as part of the armor of defence. It was [Fig. 1132) a large leather glove cased with plates of polished iron, along the backs of the fingers and hands, so that when the hand was clenched either on battle-axe or sword, each piece was so hinged and riveted, that like the shell of a lobster, the member beneath was defended at all points from assault

was defended at all points from assault or danger. It was in former times the custom, where one wished satisfaction of an enemy, to throw down faction of an enemy, to throw down before him the glove, gantleit, and if he (the adversary) took it up, that was equivalent to the acceptance of a challenge in modern times.

A long glove that covers the wrist;

as, a hunting gauntlet.

A kind of punishment for soldiers.

Bee GANTLET.

A RING Of Pullishment for Solders.

See GANTLY.

Gaumt'leted, a. Wearing a gauntlet.

Gaumt'ly, adv. Leanly; meagrely.

Gaumt'ree, Gaum'try, s. A frame set up for the support of barrels or casks; a stillage.

Gau'ra, s. [Gr. gauros, superb.] (Bot.) A gen. of plants, order Ornagrace, represented in the U. States by two species, the most conspicuous of which is G. biennis, the Biennial Gaura, found from Canada to Georgia; stem 3 to 5 feet high; leaves sessile, pale green, acute at each end: flowers numerous, sessile; cally reddish; beautiful corolla, at first rose-color, changing to a deep red, blos-oming in August.

Gauss, (gover.) Karl Friedrich, a distinguished German mathematician and astronomer, B. at Brunswick, 1777.

While attending the public school of his native city, his extraordinary intelligence attracted the notice of his

While attending the public school of his native city, his extraordinary intelligence attracted the notice of his teacher, on whose representation of his merits to the Duke of Brunswick the boy was furnished with the menns of pursuing his studies, first at the college at Brunswick and subsequently at Gittingen. Here he made several of his greatest discoveries in analysis, which induced him to make the cultivation of science the chief object of his life. His first great work, the Disquisitiones Arithmetics, published in 1801, attracted the attention of all the scientific world, and stamped its



author as one of the most profound and original mathematicians of the age. In 1807 he received the appointment of Ordinary Professor and Director of the Observatory at Göttingen, which situation he held for nearly 48 years. During this long period he gave to the world a host of treatises on pure mathematics, geodesy, astronomy, and the cognate sciences, which all bear the impress of original genius, besides contributing largely to scientific journals, and making observations on terrestrial magnetism which have proved of great utility to the cultivation of science. In fact, there are hardly any of the scientific men of Europe or America at the present time, who have not directly or indirectly derived great advantage from his labors. D. 1885.

\*\*Eastler\*, (göl-yéc.) Theophile, a French poet and man of letters, s. 1808. He had a notion that he was born to be a painter, but discouraged by his first attempts, he

be a painter, but, discouraged by his first attempts, he turned his attention to literature. In 1830 he published a first volume of *Poésies*, followed by *Albertus*, a lished a first volume of Poésics, followed by Albertus, a legend in verse, and in 1838 by another poem La Comédic de la Mort. He has also written numerous novels, vaudevilles, books of travel, and critiques. All his works contain a manifestation of the love of external beauty, and a worship of form—art for him being a kind of religion. M. Gautterwas long connected with the newspaper La Presse, from which he transferred his services to the Moniteur in 1865. He has travelled in Europe and the East, and published accounts of his journeys. He is unquestionably the most able critic of art, and one of the best French writers of the time Mademoiselle de Musipin, an eccentric and somewhat licentious novel, was the foundation of his literary fame, but prevented him from being, elected to the French Academy. D. 1872.

foundation of his literary fame, but prevented him from being, elected to the French Academy. D. 1872.

Gautul'co., a harbor of Mexico, on the Pacific Ocean, about 110 miles S.E. of Oajaca.

Gautus, (gorz.) n. [Fr. gaze.] (Manuf.) A light transparent silken fabric, supposed to have derived its name from having first been manufactured at Gaza, a city of Palestine. France and Switzerland produce considerable quantities of G. The openness of texture is obtained by crossing the warp threads between each thread of the weft, so that the weft passes through a succession of loope in the warp, and the threads are thus kept apart, without the liability to sliding from their places, which would take place if simple weaving were left so loose and open. Inferior qualities of G. are made of a mixture of silk and cotton.

Gamze'-burner, n. An open cylinder surmounted by a wire gauze. Placed over a gas-burner, a supply of gas is drawn in by the ascending stream of gas, and the mixture burns above the gauze with a very hot, smokeless fiame, the meshes preventing the flame from passing down

venting the flame from passing down

to the gas below.

Gause'-wire, n. (Manuf.) A kind of open cloth, made of fine wires of copper, brass, or iron.

Gavai

brass, or iron.

BRU'RY, a. Thin as gauze.

French caricaturists, whose real name Fig. 1133.

Paris, 1801. He legan life as a mechanical draughtsman, but in 1836 discovered his genius for burlesque, in hitting off the peculiarities of manners and persons. He at once rose into fame, and taking the passing and ever-varying modes of Parisian life for his subjects, has produced an endless variety of caricatures, unequalled for the originality and tone they display.

Besides illustrating the universally known pages of the unequalled for the originality and tone they display. Besides illustrating the universally known pages of the Charicari, and other periodicals, he has lent the aid of his pencil to the works of popular authors. The most successful of these were the designs for the Wandering Jew of Eugène Sue, and the Diable 2 Puris of Balzac. A selection from his Sactches of Purisian Life was made and published in Paris in 1845-1850. They are comprised in 8 yels. Successful published in Paris in 1845-1850. prised in 6 vols. 8vo., to which notes were appended by Theophile Gautier and others. D. 1866.

Theophile values and others. D. 1000.

@avar'mie, a hamlet of France, dep. Hautes-Pyrénées, 35 m. from Tarlos, at an elevation of 4,300 ft. above sealevel, on a small stream which rushes over a height of 1,280 feet and forms the Fulls of Gavarnie, so mac.) ad-

mired by tourists.

Gavames, Alessandro, (gah-ost'se.) an Italian ecclesisatic and orator, born at Bologna in 1809, was admitted
into minor orders in the Church of Rome in 1823, and
was appointed professor of rhetoric at Naples, illustrating the theory of the art by his eloquence in the pulpits
of the chief Italian cities. He took a prominent part
in the Roman insurrection of 1848, and, after the fall of
the Male Str. he left, Yelvan avilla and respired to Men the Holy City, he left Italy an exile and repaired to England, in which country, and afterwards in the U. States, he lectured with brilliant success. In 1860, Father G. was pres Palermo. ent with Garibaldi during the expedition to

Gave, imp. of Give, q.v.
Gave, (gav.) Basque, water.] The general name of the
rivers which flow through the French prov. of Bearn,
and which have their source in the l'yrenees.

and which may their source in the Tytellees.
(av'el., w. | Fr. javeau, javelle; Sp. garilla, from capulus, a handle, from capre, to seize, to take hold of.] A loose-lying heap of wheat, rye, or other grain.
—The chairman's hammer, in a deliberative or legislative.

Prince of Wales. He acquired a complete and very mischievous ascendancy over the prince, corrupting his morals, wasting his resources, and breeding dissension between him and his father. Edward I. banished him between him and his father. Edward I. banished him in 1307, but dying the same year, Edward II. at once recalled him, made him earl of Cornwall, and gave him in marriage his niece, Margaret de Clare. Intoxicated with his elevation and honors, he became intolerably insolent, and exasperated the nobles. He was again banished, again recalled, and in 1312, the barons having declared war, G. was besieged in Scarborough castle, captered, and executed near Warwick.

Ga'wis, a mountain of Brazil, in the province of Rio de Janeiro.

Janeiro.

Ga'Yial, n. (Zoil.) A gen. of enormous reptiles, family Crocodiside, distinguished from the crocodile of the Nile and the alligator by the peculiar form of its mouth, the jaws being remarkably long, narrow, and straight, constituting the anterior part or beak, spreading out at its base, and terminating in front so as to remind the observer of the beak of the Spoonbill. The head, properly so called, has its sides straight and perpendicular, the upper surface being quadrilateral; and the mandible, instead of being continued from the forehead by a gradual slope, sinks suddenly to follow a straight and nearly horizontal direction. This powerful animal frequently attains the length of 25 feet; and, from its strength and ferocity, is truly formidable. In one respect, however, it is found very serviceable, viz., in devouring the numerous dead bodies of men and animals which are committed to the "sacred river." mitted to the "sacred river."

inted to the "sacred river."

Gav'et, Gavette, s. [Fr. gavette.] A dance consisting of two light lively strains in common time, each being played twice. The first usually contains 4 or 8 burs, and the second 8 or 12, and sometimes more. The let strain should close in the dominant or fifth of the key, for it has its termination in the tonic or key-note; it is not a gaze, but a rondeza. This dance, introduced upon the stage in the 18th century, was adapted by Gardei to private drawing-rooms, in 1794. Its popularity declined early in the

ing-rooms, in 1794. Its popularity declined early in the 19th century.

Gaw'by, n. Same as Gasy, q.v.

Gawel'ghur, an elaborately fortified stronghold of Hindostan, in the N. part of the Nizam's dominions, on the crest of a high and rocky hill, 11 m. N.W. of Ellichpore. In 1803 it was taken by storm by the British under Gen. Wellesley (afterwards Duke of Wellington).

Gawk, n. [A. 8, geac.] A cuckoo.

—A fool; a simpleton; an imbecile.

-A fool; a simpleton; an impecie.

Gawley, a. Awkward; clumsy; clownish; foolish.

-n. A person who is awkward and ridiculous, either from over-bigness or stupidity.

Gawn, n. [Corruption of gallon.] A small tub, or lad-

ing vessel.

Gawm'-tree, n. A frame on which casks are set for

convenience in drawing; a gauntry; a stillage.

Gay, a. [Fr., from Lat. gaudere.] In high spirits; merry; joyous; sportive; gleelul; siry; sprightly; jolly;

"Belinda smiled, and all the world was gay." — Pope. Fine; showy; gaudy; meretricious.

"A virgin that loves to go guy." -Bar. vi. 9.

"A virgin that loves to go guy."—Ber. vi. 9.

Gay, JOHN, an English poet, born at Barnstable, Devon, 1888. In 1711 he published his Rural Sports, which he dedicated to Pope, then a young poet like himself; a compliment that introduced them to each other, and proved the foundation of a friendship which lasted for life. The year following he was appointed secretary to the Duchess of Monmouth. About this time came out his burlesque poem, entitled Trivia, or the Art of Walking the Sreets of London; which was succeeded, in 1714, by the Shepherd's Weck, a series of Pastontals, in ridicule of Philips. After producing many ingenious and agreeable works, some instances of court favor encouraged him to employ himself in his well-known Fables, written professedly for the instruction of the Duke of Cumberland, and published with a dedication to that prince in 1726; but though they were popular, they failed to serve him at court. He thereupon wrote The Beggar's Opera, which was first acted in 1727, and ran for 63 successive nights; but it so offended the persons in power, that the lord chamberlain refused to license for performance a second part of it, entitled Polly. The cause of G. ance a second part of it, entitled to license for performance a second part of it, entitled Polly. The cause of G. was taken up by the Duke and Duchess of Queensberry, who gave him a residence in their house, where he died, 1732.

1732. Gay'a, a city of British India, pres. Bengal, prov. Bahar, and 66 8.W. by S. of Patna. Many Buddhic remains are found in the vicinity. Pop. estim. at 45,000. Gay'diamg, n. (Naut.) A vessel of Annam with two or three masts, and lofty triangular sails. Gay'ety, Gai'ety, n. [Fr. gaitét. See above.] Merriment; mirth; airiness; liveliness; festivity.—(Now frequently written gaitty.) Finery; show; as "the gaitety of his appearance."

Gay'ety, Gai'ety, n. [Fr. gaiet. See above.] Merriment; mirth: airines; liveliness; festivity.—(Now frequently written gaiety.) Finery; show; ms "the gaiety of his appearance."

Gay Head, in Massachusetts, a promontory and lighthouse on the S.W. extremity of Martha's Vineyard. It exhibits a revolving light 173 ft. above the sea. Lat. 41° 21' N. Lon. 70° 50' 40' W.

Gay head, in Now York, a post-office of Greene co.
Gay lead, in Now York, a post-office of Greene co.
Gay leaville, (gaits'ville), in Alabama, a post-village of Cherokee co., abt. 150 m. N.E. of Montgomery.

Gay-Luss'asc, Nuolas Fançois, an eminent French philosopher, s. at St. Leonard, Haute-Vienne, 1778. In 1804, in conjunction with M. Biot, he ascended in a balloon, lent by the government of France for the purpose, to the height of 13,000 ft. above the Seine, and ascer-

tained that the influence of terrestrial magnetism there is nearly as great as it is on earth; that the electricity of the atmosphere increased as they rose, and was aways negative; that the hygrometer discovered inways negative; that the hygronieter discovered in-creased dryne a, and that the thermometer sank from 64° Fahr. on the earth, to 51°. He made another ascent alone, and attained an elevation of 4½ miles, where he had great difficulty in breathing, and the thermometer fell to 20° Fahr. After sailing six hours through the atmosphere, he descended at a village 20 m. from Bouen. The result of this aërial flight was the discovery that air obtained at the highest point, was composed of the same elements as that found on the surface of the earth. same elements as that found on the surface of the earth. These experiments brought Gay-Lussac greatly into so-tice, and he rose both in fame and position. In 1804 he became a nember of the society of Arcueil, and was introduced to Humboldt, with whom he prosecuted an investigation of the polarization of light and other subjects. He also devoted much of his time to the study of jects. He also devoted much of his time to the study of chemistry, and to him we are indebted for the discovery of the hydro-sulphuvic and oxy-chloride acids. In 1830 he became a member of the Chamher of Deputies, and in 1839 was created a peer of France. He enjoyed several official appointments, and was professor of chemne became a member of the Chamter of Deputes, and in 1839 was created a peer of France. He enjoyed several official appointments, and was professor of chemistry at the Jardin du Roi. D. at Paris, 1860. Gay-Lun'aite, n. [Named after Gay-Lunsact.] (Min.) A hydrous compound of the carbonates of lime and soda, found on a small island in Little Salt Lake, Nevada.

Tystula, lengthened, prismatic; lustre vitreous: color, white, yellowish-white, translucent. Sp. gr. 11:2-1:90. Comp. Carb. soda 85°9, carb. lime 33°8, water 30°3. G-L. has been produced artificially by mixing 8 parts by volume of a saturated sol. of carb. soda with one of a sol. of chloride of calcium.

Gay'ly, Gal'ly, adv. Merrily; with mirth and froic.

—Finely; splendidly; pompously.

"Gally dressed ladies."—Gay.

Gay'nesa, n. Gayety; finery.
Gayo'so, in Missouri, a post-village, cap. of Pemiscot co., abt. 310 m. 8.E. of Jefferson City. The earthquakes of 1811 and 1812 exhibited their greatest violence in this vicinity. The village was laid out in 1851.
Gays'port, in Ohio, a village of Muskingum co., abt. 14 m. 8.8.c of Zanesville.
Gays'port, in Pennsylvania, a borough of Blair co., on a branch of the Juniata River, opposite Hellidaysburg, abt. 120 m. W. of Harrisburg.

Gays'port, in Pennsylvania, a borough of Blair co., on a branch of the Juniata River, opposite II-llidaysburg, abt. 120 m. W. of Harrisburg.
Gays'wille, in Vermont, a post-village of Windsor co., abt. 3 m. S. by E. of Montpeller.
Ga'sa, [Heb., strong.] A town in the S.W. of Palestine, is situated about 3 m. from the sea and 50 m. from Jerusalem, on the borders of the desert which separates Palestine from Egypt. It originally belonged to the Philistines, and was a place of importance at the period of the conquest of Canaan by the Israelites. It is free many vicisatudes in the wars between the Israelites and the Philistines, it was allotted to the tribe of Judah, in whose possession it finally remained. In the year 333 z. c., G. was taken by Alexander the Great; and from that period down to 1799, when it was taken by the French under Kleber, it has been the scene of many battles and sieges. The modern town, called Guzzeh, is an entrepot for the caravans passing between

many patties and siegre. The modern town, called Guzzeh, is an entrepto for the caravans passing between Syria and Egypt. Pop. abt. 15,000.

Gaze, v. n. [A. S. gezean, to look at; allied to Heb. chaze; Ar. lahas, to see.] To fix the eyes and look steadily and earnestly; to look with eagerness or curi-

osity; to stare; to gaze.
"A lover's eyes will gaze an eagle blind."

-n. A look of eagerness, wonder, or admiration; a continued look of attention; as, a modest gaze. — The object gazed on; that which causes one to gaze. "Made of my enemies the scorn and gaze."-Milton

v. a. To consider or view fixedly. —v. a. To consider or view fixedly.

Gasec'bo, Gasec'bo, n. [From gase, q. v.] A trivial
name for a summer-house affording a view of the surrounding country.

Gasec'bl, a. Looking intently; given to gazing.

Gasec'-hound, n. [Cassis agazens.] A hound that
pursues not by the scent but by the eye.

Gasec, n. One who looks fixedly or intently upon

pursues not by the scent but by the eye.
GRAFET, a. One who looks fixedly or intently upon anything.
Grazelle', n. [Fr., from Ar. gazal, a wild goat.] (Zozl.)
The Antelope dorcar, one of the most beautiful and graceful of the antelopes, chiefly inhabiting Arabia and in height measures less than two feet at the shoulder. The horns of the adult male rise nearly perpendicularly above the orbita, are black, almost cylindrical, bending at first gently backwards, and finally forwards. The ears are long, narrow, and pointed; eyes large, mild, and black. The size of the gazelle about equals that of the roebuck; but the legs of the former are considerably longer, and the entire form more graceful. The face and cheeks are reddish-fawn color, with a dark stripe down the nose; on each side of the face, passing over the eyes, from the horns down to the nose, there is a broad white stripe, and beneath this, from the anterior canthus of the eye, a narrower dark stripe parallel to it, and separating it from the fawn-color of the cheek. The remainder of the body is dark-fawn above and white beneath, the latter color being separated by a broad, brown band along the flanks. The knees are furnished with brushes of dark hair, and the ears are filled internally with long white hair. It lives in large troops, and when pursued by the hunter, flees at great speed for some distance, then stands still to gaze on him, thes bounds off again. When brought to bay, these animals defend themselves with courage and obstinacy, meeting

in a close circle, with the females and fawns in the centre, and presenting their horns at all points to their enemies. Wild and timid as the G. is, when taken young it is readily domesticated; and it is frequently seen at large in the court-yards of houses in Syria, their exquisite form, general bearing, and playfulness rendering them special favorites.

ing them special favorites.

\*\*Manufacture\*, \*\*n. [Fr.; It. gazzetta.] (Lit.) The name given to certain newspapers in Europe, and in the U.S. It is said to be taken from gazzetta, the name of a Venetian coin worth somewhat less than farthing, and which was the price of the earliest newspaper published in Venice (1963). According to others, it is derived from gaza, a treasure, or gaza, a magple. The first Gazzette published in France (under that name) appeared in 1631, the first in France (under that name) appeared in 1631, the first in England in 1665.

a. To announce or publish in a paper; to announce officially.

officially.

\*\*Lametteer\*, (gds-ct-teer\*,) n. (Lit.) A dictionary of geography, a work giving an account of the different places on the face of the earth, under their particular names, in alphabetical order. The first work of this kind with which we are acquainted is that of Stephen of Bysandum, who lived about the beginning of the 6th century. The first modern work of the kind is the Dictionarium Historico-Geographicum (Geneva, 1565), by Charles Stephens, with additions by N. Lloyd, (Oxford 1670, and London, 1886). The works of Perrane Corette by Charles Stephens, with additions by N. Lloyd, (Oxford, 1870, and London, 1888.) The works of Ferrari, Lexicon Geographicum, and Bandrand, Geogr. Adia. Literarum dispos. (1882), are full of the strangest errors. Those of Maty (1701), Thomas Cornellie (3 vols. folio, 1708), and Savonarola (1713), were based on the former cywith additions and corrections. The Dictionnaire Cographyse, Historique, et Critique, of La Martinière (Hague and Amsterdam, 10 vols. folio, 1726; Paris, 6 vols. 1768), superseded all that had gone before it, though still retaining many errors. The Geographisch-Statistisches Handebrichuch, by Hassel (2 vols., 1817, with a supplement of 2 vols.), was the most complete and accurate work of its time. The Edinburgh Gazettee (6 vols. 8vo., 1817-22) was a tolerably accurate book. Since that time, however, numerous valuable works of this class have appeared, both in this and in other countries. Among the bowere, numerous valuable works of this class have appeared, both in this and in other countries. Among the more important of those that have recently appeared in this country may be mentioned Lippincott's Complete Pronouncing Gazetteer of the World (Philadelphia, 1880), and Harper's Statistical Gazetteer of the World. Of other countries may be mentioned McCulloch's Geographical Dictionary (4 vols., new edition, London, 1866); A. K. Johnston's Dictionary of Geography (2d ed., London, 1855); W. G. Bluckie's Imperial Gazetteer (2 vols., Glasgow, 1855); the Gazetteer of the World, published by Fullarton & Co. (7 vols., Edinburgh); Möller's Geographisch-Statistisches Lexikon (1847); Ritter's Geographisch-Statistisches Lexikon (4th ed., Leipsic, 1855); Hofman's Encyclopredie der Erd., Völker- und Staalenkunde (Leipsic, 1855, et seq.); Kramer's Geographisch Woordensek (Gouda, 1853); Carrio's Gran Dixionario Geografico (Milan, 1855); Dictionnaire Geographique universal, par une Societté de Geographic (10 vols., Paris, 1822-33); Dictionnaire Geographique universal, par une Societté de Geographic universal, par une Societté de Geographic (10 vols., Paris, 1852-33); Dictionnaire de Geographic universal, par une Societté de Geographic Univ Among the peared, both in this and in other countries.

oy racciai Mados (Madrid, 1847-3), in 10 volumes.— A valuable dictionary of ancient geography is the one recently edited by Dr. William Smith.

Gazetteer, n. A writer or publisher of news.— A newspaper: a gazette.

Gas'ing-stock, n. A person regarded with scorn or abhorrence; an object of curiosity or contempt.

"To make us gazing-stocks to others." - Ray.

Car'egene, n. (Chem.) A neat apparatus employed to extemporize soda-water, ginger-beer, sherbet, and other popular summer drinks. \*\*BEEBM', n. [Fr. gazon, a turf.] (Fort.) Sod laid over newly made earthwork, to consolidate it, and prevent

the soil from rolling down.

6. C. B., Grand Cross of the Bath. (England.) See Bath.

6. C. B., Grand Cross of St. Michael and St. George.

6. D., Grand Duke.

Ge, an inseparable particle often prefixed to verbs and verbal nouns, in A.S. and the cognate languages.— See GA

Géant, (chai'a.) one of the peaks of the Pennine Alps in Savoy, 5 m. from Mont Blanc, having an elevation of 13,100 ft. a bove the level of the sea. — The Col (pass) du Géant is upwards of 11,100 ft.

dear, n. (A.S. gearwian, gyriam, to prepare, to procure; whence the noun gearwa, clothing.) Apparatus; preparation; furniture; accourrements; dress; ornaments; habit. "Stript from her gear." — Fairfax.

"Stript from her geer." — Peirfuz.

(Mach.) The several working parts of a locomotive steam-engine, or of any machinery. — See Graning.

—pl. (Naul.) Same as Jarns, q. v.

—v. a. To put harness on; to dress.

Gearling, n. (Mach.) A term applied to the parts of machiner is machine is communicated to another. G. consists in general of toothed-wheels, friction-wheels, endless bands, screws, &c. or of a combination of these. When the communicated to another of the second parts of the communication of these when the communication of these when the communication of the second parts of the communication toothed-wheels, friction-wheels, endless bands, screws. &c., or of a combination of these. When the communication between the two parts of the machine is interrupted, the machine is said to be out of gear; and when the communication is restored, it is said to be in gear. In the case of a threshing-mill, e.g., driven by a steamengine, the G. usually consists of an endless band which communicates motion from the axie of the fly-wheel to that of the drum. If the band were slipped off from that of the drum. If the band were slipped off from that of the drum. If the band were slipped off from that of the drum. If the band were slipped off from that of the drum. If the band were slipped off from the communication is restored. The communicat

one wheel, or slackened so that motion could not be communicated by means of it, then the machine would be out of gear. G, which can be put in and out of gear is called movable gearing; that which cannot, as, for instance, the wheelwork of a watch, is called fixed gearing. G. which consists of wheelwork or endless screws (q.v.), is put out of gear either by means of one of the wheels sliding along its axis, or being moved out of its place horizontally or vertically by means of a lever. Straight gearing is used when the planes of motion are parallel to each other; berelled gearing, when the direction of the plane of motion is changed. G. has also for its object the increasing or diminishing of the original velocity, and in reference to this is listinguished by the term "multiplying" or "retarding."— See Wheels, (Tooteel). one wheel, or slackened so that motion could not be (TOOTHED.)

(TOOTHED.)

\*\*Coar's usite, s. [Ge, earth, and arksutite(q. v.), from its earthy aspect.] (Min.) A mineral found with the cryolite of Greenland. Lustre, dull. Color, white, opaque. Comp. fluorine 41:18, alumina 16:62, calcium 19:25, sodium 2:46, water 20:22.

19-25, sodium 2-45, water 20-22.
Gear'y, in Kassas, a post-village of Doniphan co., on the Missouri river, about 13 m. above Atchison.
Gear'y, in Michigan, a post-office of Clinton co.
Gear'y, in Okiahoma, a post-office of Biaine co.
Gear'y, in Pennsylvania, a post-office of Westmoreland county.

county

county.

Geas'hill, a parish of Ireland, Kings co., Leinster, about 8 m. N.W. of Portarlington. It contains the ruins of a castle heroically defended, during the civil war of 1641 by Lady Digby.

Geat, n. (Founding.) The hole through which the metal runs into the mould.

metal runs into the mould.
Geauge (je-aw ga), in Ohio, a N.E. co.; area, about 400
sq. m. Risers. Cuyahoga, Grand, and Chagrin rivers.
Surface, hilly; soil, fertile and adapted to pasturage.
Cup. Chardon. Pop. (1890) 13,489.
Geba. (Script.) A Levitical town of Bonjamin, situated 6 or 7 m. from Jerusalem, and not far from the N. border of the kingdom of Judah. Near G., David defeated the Philistines, (2 Suzs. v. 25.)
Geba Elver. See Senegamia.
Geber, a great Arabian chemist of the 8th century, of whose history little is known, but whose writings contain notices of so many important chemical facts, not found in any previous writer, that he is considered en-

found in any previous writer, that he is considered en-titled to the designation of the father and founder of chemistry. He was acquainted with nearly all the chemicommercy. He was acquainted with nearly at inclinential processes in use down to the 18th century: with the sulphuric and nitric acids, corrosive sublimate, saltpetre, potash, and soda. But he did not, as a philosopher, rise above the spirit of his age and countrymen — explaining phenomena by occult causes, and firmly believing in and seeking the philosopher's stone. Gebor's work was translated from Arabic into Latin by Golius of Leyden, who entitled it Lapis Philosophorum. In 1678 an English translation by Richard Russell appeared. It is the oldest

translation by Richard Russell appeared. It is the oldest chemical treatise known.

Geb'hard, or Ges'slar, in Indiana, a village of Case co., about 5 m. N.W. of Logansport.

Geb'harts, in Itansylvania, a P. O. of Somerset co.

Geck, n. [A.S. geac, a cuckoo; Ger. geck, a cilly fellow.

Cf. Gawk.] Contempt or scorn. (Prov. Eng.)

Geck'o, n.; pl. Geck'oes.

[The name is an assimilation to the sound which the animal utters.] (Zoöl.)

A family of Saurian rep-

the animal utters. (2001)
A family of Saurian reptiles, of small size and
generally of repulsive aspect. The tongue is fleshy,
and not extensible; their
jaws are furnished with a jaws are furnished with a range of very small teeth; and their toes have a flat-tened disc, which enables them to move even on walls and ceilings. Many genera and species are known in the warmer parts of both continents.

Gee, (je,) v. n. To agree
To turn from the si where the driver stands;—
used mostly in driving, and
Fig. 1134. — WHITE'S GEOKO. having for its opposite and correlative the verb to haw.

(Phyllurus platurus.)

Geelong, (je'long.) the second city of Victoria, in Australia, at the head of the westerly arm of Port Philip, about 40 m. S.W. of Melbourne, with which it is con-

about 40 m. o. v. of satisfaction, and another property of the river General plants of the delta of the mouth of the river General control of the Gulf of Bothnia, about 100 m. N.N.W. of Stockholm. Its exports are iron, timber, tar,

N.N. W. of Stockholm. Its exports are iron, timber, tar, fax, and linen.

Gehem'ma. (Script.) [Lat.; Gr. geenna, from Heb. gehinnon, the valley of Hinnom.] The valley of Hinnom, where the Jews burnt their sons and daughters in the fire to Moloch, is in the authorized version of the Scriptures translated by hell. By mediswal writers it was used not only in this sense, but generally in that of pain and suffering and suffering.

A soluble brown matter extracted from the organic matter of soils. As it does not crystallize, its existence as a definite acid is doubtful.

Gel'ger's Mills, in Pennsylvania, a post-office of Berks co.

Betts Co.
Gek Ro. Same as Gecko, q. v.
Gel Ro. (Anc. Geog.) A town in the 8. part of Sicily,
about 10 m. from the sea, built by a Cretan colony, 713
years B. c. The inhabitants were called Gelenses, Geloi,
and Gelani.

Snacentible of congelation.

and Gelani.

Gelable, (jel'a-bl.) a. Susceptible of congelation.

—Capable of being converted into jelly.

Gelasius I., (je-lai's-sas.) Pope, succeeded Felix III.

in 492. He had an acrimonious contest with the patriarch of Constantinople, and condemned the practice
of communicating only with bread, as was the custom
of the Manichean sect. and made it imperative on the
laity to use both bread and wine in the Lord's Supper.

D. 496.

D. 496.

GRIABIUS II., succeeded Pascal II. as pope in 1118. Cencio,
Marquis di Frangipani, consul of Rome, aided by the
emperor Henry V., drove him from Rome, and Maurice
Bourdin, as Gregory VIII., was elected in his stead. G.,

emperor Henry v., drove him from Rome, and Maurice
Bourdin, as Gregory VIII., was elected in his stead. G.,
after an unsuccessful attempt to regain the pontificate,
retired to France. D. at the abbey of Cluny, 1119.
Gelatischemens, a. [Fr. gelatine, and Gr. genesthai, to
be born.] Producing gelatine.
Gelatime, (jöl'a-tine,) m. [Fr. gelatine, In. Lat. gelatina,
from Lat. gelare, gelatus, to freeze, to congest, from
gela, içv coldness.] (Chem.) An azotiszed principle obtained from animal tissues only. All the solid parts of
the animal body yield it when boiled, though it does not
appear to exist in a free state in any of them. G. softens
and swells in water, but requires heating to dissolve it.
When the solution cools, it solidifies to a firm jelly,
hence the name. It is insoluble in alcohol and ether,
and may be precipitated from its aqueous solution by
the former. With infusion of gells or tannic acid it
gives a whitish insoluble precipitate that is incapable
of putrefaction, and forms the basis of leather. See of putrefaction, and forms the basis of leather. See TANKINO. It is also precipitated by solution of corresive sublimate and bichloride of platinum. By continued boiling G. is converted into metagelatine, which does not gelatinize as the liquid cools. A solution containing 1 per cent. of G. will set on cooling. It is much used for food, but its value as a nutritive has been

used for food, but its value as a nutritive has been much questioned.

(Arts.) See Gluz.

Gelatin'iform, a. Having the form of gelatine.

Gelatinize, v. a. a. n. To make or become gelatinous.

Gelat'inous, a. [Fr. gelatineuz.] Viscous; stiff and cohesive, as gelatine.

Geld, v. a. [A.S. gelden, to castrate.] To emasculate; to deprive of the testicles.

" Gold buil-oalf and ram-lamb, as soon as they fall." — Tueser. To deprive of any essential part.

-To deprive of anything immodest or exceptionable; to

—To deprive of anything immodest or exceptionable; so purify; to purge.

Geld'er, n. One who castrates or gelds.

Gel'derland, in the Netherlands. See GUELDERLAND.

Geld'ing, n. Same as GUELDER-ROSE, q. v.

Geld'ing, n. Act of castrating. — A castrated animal, but chiefly a horse. In one of the old copies of the Bible, it is used as applying to the male of the human kind. " And Philip and the gelding went down into the water."

Gelid, (jel'lid,), a. [Lat. gelidus, from gelare, to congeal, from gelu, frost.] lcy cold; very cold.
Gelid'ity, n. State of being extremely cold.
Gelid'ium, n. (Bot.) A genus of Algales. From the species G. corneum, commonly known as Algue de Java in France, M. Payen first obtained the principle to which has a few all the principle to which has a few all the principle of the rein France, M. Fayen are obtained an eprinciple to which he has given the manie of gelose. According to the researches of this chemist, one part of gelose dissolved in 500 parts of boiling water will afford, upon cooling, a colorless jelly; thus forming ten times more jelly than a like weight of the best animal gelatine. Jellies made from this see-weed are much employed for food in

Jupan.

Gel'idly, adv. In an extremely cold manner.

Gel'Idness, n. Extreme coldness.
Gel'Itus, AULUS, a Roman writer of the 2d cent. He (el'Ilus, AULOR, a Roman writer of the 2d cent. He studied philosophy at Athens, held a judicial post at Rome, and is known as author of Noctes Atticz, a kind of commonplace book, made up of selected passages from many ancient authors on all sorts of subjects, with some original observations, critical and philological.

Gel'ly, n. Same as JELLY, q. r. Gelon, or Gelo, tyrant of Syracuse, was a native of Gela, and commanded with distinction in the wars carried on by Hippocrates, tyrant of Gela, and seized the sovereign power himself, B. O. 491. In 485, through the influence of the aristocratical party at Syracuse, he lecame sovereign there, and gave up Gela to his brother Hieron. He greatly increased the power and importance of Syracuse by his conquests and good government, and his sid was sought by the Greeks against Xerxes. A formidable invasion of the Carthaginians, however, detained him in Sicily, and he won a great victory over them near Himera on the day, it is said, either of the battle of Salamis or Thermopyles. D. B. C. 478. His memory was long held in honor at Syracuse. Geloe, n. (Chem.) See Gelidius.

Gelt, pp. of Geld, q. v. Gemma, from Gr. generihai, to be born.] (Fine Arts.) A term applied to all precious stones, particularly to those used in jeweiry. The chief ends aimed at in objects of this kind, are britcame sovereign there, and gave up Gela to his brother Hieron. He greatly increased the power and impor-

Hant lustre, transparency, and richness of hua the gems that are cut, the diamond is the most valued for brilliancy of lustre, or water, as it is termed. The other stones that are chiefly used for gems are the ruby, supphire, emerald, aquamarine, topaz, garnet, chrysolite, hyacinth, tourmaline, and many varieties of quartz as onal amegems are the ruby, supphire, emerald, aquamarine, topaz, garnet, chrysolite, hyacinth, tourmaline, and many varieties of quartz, as opal, amethyst, agute, onyx, &c. These stones are all described in this



stones are all described in this work under their various names. The art of carving gems is of great antiquity, though it is doubtful whether the ancients were able to cut GREEN JASPER ABRAXAS, the diamond or carve the emerald and topax. The Eastern nations are yet unacquainted with the proper mode of cutting and polishing the diamond. Among the Greeks the art of gem-cutting was carried to great perfection. Many celebrated names of engravers before the arts of Alexander have been handed down. Theodore of Samos engraved a lyre on a celebrated emerald belonging to King Polycretes 750 years E.C., which the owner, to immortalize himself, threw into the sea. The Egyptians and Hebrews practised the art. brated emerald belonging to King Polycretes 750 years B.C., which the owner, to immortalize himself, threw into the sea. The Egyptians and Hebrews practised the art. The Egyptians used green jasper, chalcedony, and concilian, and many interesting specimens of their work are preserved in the British Museum. With the introduction of Christianity, the art languished, and after the 7th cent. almost entirely disappeared, until it was revived by the Italians in the 15th cent. In 1500 Ambrose Caradopo, an Italian, engraved the portrait of a father of the church on a diamond, and sold it to Pope Julius II., a great patron of the arts, for \$27,500. Since its revival, modern masters have more than rivalled the productions of the ancient engravers.

G. artificial, Many of the precious stones have been produced artificially by crystallizing mixtures containing their component parts at a very high temperature. Artificial rubles, corundum, spinelle, garnet, opal, and emerald have been thus produced, possessing the properties of the real stones in color, hardness, and form. Minute crystals of carbon have been obtained by voltaic action, but as yet no diamond of any appreciable size has been formed artificially.

G. imitations, are made by a transparent and denser glass, or paste, containing a large percentage of oxide of lead, and colored by metallic oxides. In many of these, the tints of the real stone are so exactly imitated, and they are cut and polished with such skill, as to decive any but the most experienced judges.

(Bot.) The bud or compenditum of a plant.

ceive any but the most experienced judges.

(Bot.) The bud or compendium of a plant.
v. a. To bespangle; to embellish, as with detached beauties.

Desauttes.

-v. n. To breed; to germinate.

Germana, n. [Chaid. Ghemdra, complement.] That portion of the two Taimuds which contains the annotations, discussions, and amplifications of the Mishnah by the academies of Palestine on the one hand, and those of Babylon on the other. The Babylonian Germana. of Babylon on the other. The Babylonian Gemára, more complete as well as more lucid than the Palestinensian, possesses a much more highly valued authority. The final redaction of this latter falls in the middle of the 4th cent. a. D., while the former was not completed till 500 a. D. See Mishyah and Talmud. Gemaric, a. Belonging to the gemara. Gemaric, a. Belonging to the gemara. [Her.) A pair; two things of a sort. Gemiel-ring, n. A ring with at least two links; a gimbal.

pair; two things of a sort.

Germ'el-rimg, n. A ring with at least two links; a gimbal.

Germ'inate, a. [Lat. geminatus, from geminuare, to double.] (Bot.) Doubled; in pairs; binary.

Germ'ini, n. pl. [Lat., the twins.] (Astron.) The third constellation, or sign of the zodiac. The title is referred by the Greeks not only to the fable of Castor and Pollux, but also to those of Hercules and Apollo, Triptolemus and Iasion, Amphion and Zethus, &c. The name of the Twins is given to the constellation from two remarkable stars of the first and second magnitude, to which the names of Castor (or a Geminorum) and Pollux (or β Geminorum) are given. These two stars, when one known, can be easily recognized on account of their proximity. By drawing a straight line through the belt of Orion and the two bright stars, the line of which cuts through the belt, the G. may be easily found; for the straight line, when lengthened upwards, will pass very near the two stars. They are also about half-way between Regulus and Aldebaran; and when Orion and the Great Bear are seen together, Capella on one side, and Castor and Pollux on the other, form the most conspicuous boundary-marks of the space between.

Germ'inous, a. [Lat. geminus; Sp. & It. gemino, double.] In pairs: double.

boundary-marks of the space netween.

Gem'inous, a. [Lat. geminus; Sp. & It. gemino, double.] In pairs; double.

Gem'ma, n. [Lat.] A leaf-bud.

Gemma'eeous, a. Pertaining to leaf-buds. — Belonging to, or like, gems.

Gem'mate, a. Having buds; reproducing by means of buds.

of buds.

of buds.

demmattion, a. Adorned with gems or jewels.

demmattion, n. [Fr., from Lat. gemmatio.] The state of budding; arrangement of parts in the bud.

The time or season when the buds expand.

Gemmat, (shem'me.) a mountain-pass leading into Switzerland, between the cantons Valais and Berne, and abt.

25 m. from Thun, at an elevation of 8,000 feet above sealayed.

Gem'mule, n. [Fr., from Lat. gemmula, dim. of gemma, a jewel or bud.] (Bot.) A small bud; a plumule. (Zoil.) The embryos of the radiated animals at that stage when they resemble ciliated mounds. Gemmula! ferous, a. [Lat. gemmula, dim. of gemma, a jewel, a bud, and ferre, to bear.] (Bot.) Bearing gemmulas.

muies.

Gem'my, a. Bright; glittering; neat; spruce; smart.

Gems'bock, n. [Ger. gemse, chamois, and bock, a buck.]

(Zoül.) The Antelope Oryz, or Oryz Gazella, a species
of antelope, perhaps the Oryz of the ancients. Its size
is somewhat superior to that of a deer, and it is more
easily distinguished than many others in this extensive

rear the horns affording a character prefet by clean and race; the horns affording a character perfectly clear and constant, being three feet long, nearly straight, annulat-ed half-way up, and gradually tapering to the point. The head is white, with triangular patches of black on the forehead and under the eyes; the neck and upper



Fig. 1136. - THE GEMSBOCK. (Antelope Oruz.)

part of the body are of a pale bluish-gray; the belly and insides of the limbs are white; and a dark stripe runs along the back to the tail, which much resembles that of a horse. The hoofs and horns are black; the hair under the throat, along the ridge of the back, and over the shoulders, is long and rough. It inhabits different parts of Africa, and is met with also in Persia, India, and Arabia. It is resolute and dangerous when hardpressed, its long sharp horns being used with amazing energy and address.

pressed, its long sharp horns being used with amazing energy and address.

\*\*Rems Borm, n. (Mus.) An organ-stop in German organs, the pipes of which are made of tin, and are conically shaped, being much narrower at the open end; while at the mouth, at the broad end, there are ears on each to regulate the tuning. It has a peculiarly pleasant tone, of a different character from either an open cylinder pipe or a stopped pipe. The pitch of the G. is generally 8 feet tone; sometimes it is 4 feet, and in the pedal organ 16 feet.

\*\*Jerma, n.\*\* [Lat., the cheek.] (Anat.) The region between the eye and the mouth, generally extended over the zygomatic arch.

gomatic arch.

e'ma, in *Michigan*, a village of Delta co., about 13 m N.E. of Esconawba.

N.E. of Esconavba.

Genappe. (she-nap') a town of Belgium, in the province
of South Brabant, 16 m. from Brussels. Hany battles
have been fought here at different times. It is, however, chiefly memorable as the site of the first of that series of battles which, in June, 1815, were terminated on the field of Waterloo.

Gendar'merie, n. [Fr.] The collective body of the

on the field of Waterloo.

Gendar'meerle, n. [Fr.] The collective body of the Gendar'meerle, n. [Fr.] The collective body of the Gendar'mees, (shân(g)darm,) n. pl. [Fr., from gens d'armes, men-at-arms.] (Mil.) A body of military police in France, comprising both infantry and cavalry. In the 15th and 16th centuries, the G. constituted the most distinguished cavalry corps in the French army. Afterwards, in 1660, the name was transferred to a squadron of the royal household troops, who constituted a kind of body-guard of the king. In 1791 this corps was abolished, and the name given to a body of police. It consists principally of soldiers taken from the army, generally on account of intelligence and good behavior, and it is regarded as a kind of promotion, as they have better pay, and enjoy greater liberty. The corps still constitutes a part of the army, and is liable, in case of necessity, to be sent on active service. They have the character of being well behaved and trustworthy men, and are frequently intrusted by the government with the execution of matters of importance and delicacy. They amount to about 25,000 men. The German Land-Dragoner is about the equivalent of the French gendarme.

Gen'der, n. [Fr. genre; Lat. genus, generis, from gig-nere, to produce.] Sex, male or female. (Gram.) The distinction of nouns according to sex.

Nouns denoting the male sex are said to be masculine; those denoting the female sex, feminine; and those which denote neither male nor female are said to be which denote neither male nor female are said to be neuter (Lat. neutrius generis, of neither gender); and hence grammarians have come, somewhat incorrectly, to speak of three genders. There can, properly speaking, be but two genders, the maculine and the feminine; as the sexual distinction is the basis upon which this doctrine is built. There are many animals, however, of which it is difficult, or useless, to determine the sex; and there are also many things which cannot be so distinguished at all. These are generally regarded as belonging to what is termed the neuter gender. There are, however, certain ideas, as magnitude, strength, vigor, &c., which are considered as characteristics of males, while gentleness, timidity, submission. &c. are regarded as properties of females, which, when they come to be associated with a neuter noun, raise it to the masculine or feminine; thus we speak of the sun as k. come to be associated with a neuter noun, raise it to be masculine or feminine; thus we speak of the sun as k, and of the moon as she. Abstract nouns and general terms are also usually regarded as feminine. The masculine and feminine are sometimes denoted by different words, as boy, girl, horse, mare, cock, hen; sometimes by a change in the termination, as count, countest, excutor. executrix, songster, songstress; and sometimes by the addition of a word, as cock-sparrow, hen-sparrow, he goat, she-goat.

goat, she-goat.

Gender, v. a. To beget; to engender.—To produce; to cause; as, to gender strife.

w. n. To copulate; to breed.

Geneagen'esis, n. See Partheno-general.

Genealog'ical, a. [Fr. généalogique; Gr. genea, a race, and logos, a discourse.] Pertaining to, or exhibiting the descent of persons or families from an ancestor.—According to the descent of a person or family from an ancestor.

Genealog'ically, adv. By genealogy.
Geneal'ogist, n. He who traces descents of persons or families.

Genealogically, adv. By genealogy.
Genealogist, n. He who traces descents of persons or families.
Genealogy, (pene-dio-je,) n. [Fr. généalogis; Gr. genealogia, from genea, a race, and logoa, a discourse.] An account or enumeration of the ancestors or relations of a particular person or family. No nation was more careful to trace and preserve its genealogies than the children of Israel. Their sacred writings contain genealogies which extend through a period of more than 3,500 years, from the creation of Adam to the captitity of Judah, and even after that time. Josephus informs us that he traced his own descent from the tribe of Levi by means of public registers, and that, however dispersed and depressed his nation were, they never neglected to have exact genealogical tables prepared from authentic documents which were kept at Jerusalem. Since, however, their destruction as a nation by the Romans, all their tables of descent seem to have been lost; and even the Levitea, who are still distinguished from the rest of the people by the exercise of special, honorary, religious functions, are known as such only by being acknowledged as descendants of parents who exercised the same. The inequalities of rank and right which prevailed during the Middle Ages made genealogical inquiries highly important, and it was then that researches of this kind assumed the form of a science, which became closely connected with heraldry, (q. t.) Very little critical care, however, was usually employed in such cases, the chief object being to trace the origin of families into the remotest antiquity. Attempts to carry this to an absurd length are frequently manifested in the earlier genealogical works. Critical genealogical studies were not begun before the 17th century. Genealogical studies were not begun before the 17th century. Genealogical to the proper of the result of ing the often complicated relations of dynastics, familic, claims, and controversies of successions, &c. They are also of importance in legal cases concerning claims of inheritance; and, indeed, are indispensable in States in which the enjoyment of certain rights is made to depend upon lineage or descent. A genealogy, or lineage is frequently represented in the form of a tree (arbor cosanguinitalis), giving a distinct view of the various branches of the family, and the degrees of descent from the common progenitor, who is generally represented in the root or stem. Genealogical tables are either decending or ascending. The former are chiefly used in historical records, presenting the descendants of a certain person in the order of procreation; the latter, in documents of nobility, serving to show the claims of any man or family to the titles of paternal and maternal ancestors. Sometimes both forms are used together. Person the control of cestors. Sometimes both forms are used together. Persons descended one from another successively, form a direct line; those descended from a common progenior, but not one from another, a collateral line; the collateral but not one from another, a collateral line: the collateral line embraces the agnates, or the kindred on the father's side, and the cognates, or kindred on the mother's

Genegants'let River, in New York, enters the

Genegants/let River, in New York, enters we Chennango River in Chennango co. Genera, n. pl. of genus. See GENUS. Generable, a. [Fr., from Lat. generabilis; from generate, to beget.] That may be begotten or produced. General, a. [Fr., général; Lat. generalis, from genus. a kind, from gignere, to produce.] Relating to a whole class or order; comprehending many species of individuals.—Not special or particular; not restrained or limited to a particular import; not specific; public; common; relating to or comprehending the entire

## PRECIOUS GEMS AS THEY ARE FOUND.

- 1 TOURMALINE (New York).
- 2 TOURMALINE (Ural).
- 3 CHRYSOPRASE.
- 4 EMERALD (Peru).
- 5 CHRYSOBERYL (Ural).
- 6 TURQUOISE.
- 7 DIAMOND.
- 8 SPINEL RUBY.
- 9 GARNET.
- 10 TOPAZ (Ural).
- 11 AQUAMARINE (Ural).
- 12 LAPIS-LAZULI.
- 13 BLOODSTONE.
- 14 TOPAZ (Brazil),
- 15 OPAL.
- 16 AMETHYST.



-This word, when attached to the name of an officer, usually denotes superiority, superintendence, or the concentrated command of a large sphere of duty; as, postmaster-general; director-general, &c. bewieral, n. The whole, without descending to particulars; the total; that which comprehends all, or the which were

"In particulars our knowledge begins, and so spreads itself by sgress to generals." — Locks.

(Eccl.) In the Roman Catholic Church, the supreme head, under the Pope, of the aggregated communities throughout Christendom belonging to a religious order; as, the general of the Jesuits.

as, the general of the Jesuits.

(Mil.) In our army, the name of the highest military rank that can be conferred on officers. General officers are of four grades — general, lieutenant-general, majorgeneral, and brigadier-general. The title seems to have originated in France about 1450, when John, Count de Dunois, was made lieutenant-general of the French forces, or commander-in-chief, representing the sovereign, who had delegated to his lieutenant-general the performance of the duties that would otherwise have devolved upon himself as actual commander-in-chief of the armies. The with the commander-in-time to the strict. The vittle came into use in England in the reign of Henry VIII., when the appellation of captain-general was given to the commander-in-chief of the English forces, instead of the total commander-in-chief of the English forces, instead of the total commander-in-chief of the English forces, instead of the total commander-in-chief of the English forces. to the commander-in-chief of the English forces, intread of that of lord-marshal of England. From that period the title of general, both alone and distinguished by various prefixes, has been preserved in the British service, as in almost all the European armies.

[Fr. générale.] (Mil.) A beat of the drum serving as signal to an entire army.

in general. For the most part; generally.

Generalis'sinco, n. [It.; Fr. généralissime.] The chief commander of an army or military force; especially, the commander of an army of two or more gra-divisions, each under command of a separate general. "Alexander was generaliseime of Greece."—Sir T. Br

General Issue, n. (Law.) A plea which thwarts or denies at once the whole declaration of the plaintiff, without offering any special matter whereby to evade it: as in action for wrong, "not guilty," or for debt, "not indebted." They are called the general issue because, by importing a general and absolute denial of what is alleged in the declaration, they amount at once to an issue, by which is meant a fact affirmed on one side and denied on the other.

Generalities. n. (Fr. ofmralitie: Lat. generalitas.)

side and denied on the other. \*\*demeral'ity, n. [Fr. généralité; Lat. generalitas.]

State of being general, or quality of including species, kinds, or particulars. — The main body; the bulk; the major part; as, the "generality of mankind." (Addison.)

—That which is general; that which is other than special; a general or vague statement, condition, or phrase. scend from generalities to particulars."—L

Gen'eralizable, a. That may be generalized, or brought under a general head, rule, or system. Generalization, n. [Fr. généralization.] Act of making general; act of reducing particulars to generals or to their genera.

their genera.

Prelization is only the apprehension of one in the many.

Ser W. Hamilto

(Logic.) The act of comprehending under a common name several objects, agreeing in some point which we abstract from each of them, and which that common name serves to indicate. When we contemplate several objects resembling each other in some part of their active, we can, by attending to that part alone, assign them one common name, which will express or stand for them all as far as they agree, and this is what is called generalization. Another kind of generalization is from observing that, when two or more objects have certain things or properties in common, that therefore they have others also in common, as where Newton, from the fall of an apple, discovered the law of gravitation. In this process of generalizing there is involved a principle which experience does not furnish, by which we affirm not only that all heavy bodies which have been observed gravitate, but that all heavy bodies, whether they have been observed or not, do so. In this there is implied a belief that there exists a certain order in mature, and that, under the same circumstances, the (Logic.) The act of comprehending under a common there is implied a belief that there exists a certain order in nature, and that, under the same circumstances, the same substances will present the same phenomena. See Ispection, Classification. Gemeralize, v. a. [Fr. généraliser.] To make general, or common to a number. — To extend from particulars

or species to genera.

When a fact is generalised, our discontent is quiete Sir W. Han

To reduce, as particulars to generals or to their genus; as, to generalize a conclusion from deductions.

To form classes or genera; to view generally and comprehensively in relation to classes.

comprehensively in relation to classes.

Generally, adv. In general; extensively, though not universally; most frequently; commonly; usually; as, he is generally behind time.—Chiefly; principally; in the main; in the whole taken together; without detail. Gen'erallness, s. State or quality of being general, but not universal; frequency; commonness; as, "the generallness of the cause."—Sidney.

Gen'erallship, n. Rank, office, or station of a general.—Exercise or practice of the official functions of a general-sidney.—Military skill and conduct of a military general sidney; as, the campaign was carried on under his general-sidney.—Military skill and conduct of a military general officer; as, he showed able generalship.

Gen'erally, s. Generality; totality. (a.)

Gen'eral Wayme, in Pransplania, a village of Montgomery co. Its post-office is Academy.

GENE

That which generates; the power or principle that produces.

(Grom.) A point, line, or surface by whose motion another curve or surface is or may be conceived to be described or defined.

Generate, v. a. [Lat. genera, generatus—genus, race, kind.] To beget; to procreate; to propagate; to engender; to produce or bring forth similar to the parent.

"Those creatures which being wild generate seidom, being tame, generate often."—Bacon.

—To bring into life or existence; to cause to be.

"10.5 de some above war to generate marked."—Millen.

'Or find some other way to generate mankind." - Milton.

To cause; to originate; to produce.

iem'erating Surface, n. (Steam-engine.) The heat-ing surface of a boiler, or that on which heat is applied

ing surface of a boller, or that on which heat is applied to generate steam.

Semera'tion, n. [Fr.; from Lat. generatio.] Act of generating or of begetting; procreation; propagation.—

Production; formation; as, the generation of sounds, heat, &c.—A single succession in natural descent, as the children of the same parents; hence, an age; the people of the same period, or living at the same time; a series of children or descendants from the same stock.

"All generations and ages of the Christian Church."—Hooker.

A family; race; kind; breed; stock

"Y' are a dog. —
Thy mother's of my generation; what's she, if I be a dog?" Sh (G-om.) The formation or production of a geometrical

figure figure.

(Physiol.) See PRYSIOLOGY and REPRODUCTION.

Alternation of generation. (Physiol.) A term applied by Prof. Steenstrup to a series of phenomena connected with the mode of reproduction of many of the lower animals. In their development from the ovum to the adult state, a large number of these beings not only pass through various stages, as exemplified in the insect tribe, but also possess the nower of multiplying them. ribe, but also possess the power of multiplying them-selves at certain periods of their growth. The animals which exhibit this peculiarity have been called nurses, which exhibit this peculiarity have been called nurses, and the phenomenon has been particularly observed in the Acrphale, Entosoa, Polypifere, Salps, and Vorticelle. In the translation of Prof. Steenstrup's work by the Ray Society, the alternation of generations is fully described. The mode of development by means of "nurses," or intermediate generations, is shown to be a cational party phenomenon in nature. "The circuman ordinary phenomenon in nature. "The circumstance," he observes, "of an animal giving birth to a progeny permanently dissimilar to its parent, but which itself produces a new generation, which either itself or in its offspring returns to the form of the parent animal, is a phenomenon not confined to a single class or series of animals; the vertebrate class is the only one mal, is a phenomenon not confined to a single class or series of animals; the vertebrate class is the only one in which it has not yet been observed. It would consequently appear that there is something intrinsic in this mode of development, and that it occurs, as it were, with a certain necessity; on which account it will undoubtedly soon be recognized to a greater extent and more generally. If the whole system of development by means of "nursing" generations be collected and regarded in one view, it appears, as the essential feature in this course of development, that the species is not fully represented in the solitary, full-grown, fertile individuals of both sexes, nor in their development; but that to complete their representation, supplementary individuals, as it were, of one or of several precedent generations are necessary. The greatest incompleteness and the highest degree of mutual dependence is to be observed in the Campanularia and similar polypes, in which the generations representing the unity of the species are very unlike each other, and in which all the individuals are fused into an outward unity, or into a set of polypes. ... They exist organically connected with each other, and are normally free only in their first generation, and, indeed, only in their earliest stage of development, and only for a short time; since the free-swimming clisted embryo swims about in the water at most for some hours, in order to find a suitable place for the foundation of a new polype-stem. In the Coryna, claviform polypes, the organic connection between the individuals and generations is rather more lax; the perfect genmiparous or ovigerous individuals are usually quite free, often even at an early age; so that they do not attain their full development until after their sepafect genmiparous or ovigerous individuals are usually quite free, often even at an early age; so that they do not attain their full development until after their separation from the "nursing" generations. In the Meduzz and Scalpe, the generations which are connected together into one whole become more like each other." Among the Entosca, similar attempts at becoming free and accomplishing a perfect growth are also described. The development of animals which do not belong to the water, but to the air, also presents similar phenomena, but in a still higher and more free stage. The propagation of the Aphides through a series of generations has been long known. In the spring, a generation is probeen long known. In the spring, a generation is produced from the ova, which grows and is metamorphosed, and, without a previous fertilization, gives birth to a new generation, and this again to a third; and so on for ten or twelve weeks; so that in certain species which have been observed nine such changes have been noted. have been observed nine such changes have been noted.
At last there occurs a generation consisting of males and females, the former of which, after their metamorphosis, are usually winged; fertilization and the deposition of eggs take place, and the long series of generations recommences in the next year and in the same order. Some advantage in tool getting in the parily developed state may cause this phenomenon. See ALTERNATION OF GENERATION.
Glem'erative, a. [Gr. graceast/.] Having the power of generating or pruspating its own species; having

of generating or propagating its own species; having the power of producing; as, "the generatice faculty."

tinct from a species; as, two plants generically allied.

Genericalness, n. State or quality of being generic.

Generification, n. Art, act, or process of making

denerification, n. Art, act, or process of making general, or generalizing.
denerowity, n. [Fr. générosité; Lat. generositas.]
Quality of being generous; nobleness of soul; magnanimity; a disposition to give liberally or to bestow favors.
—Munificence; open-handedness; bounty; liberality in bestowing; as, an act of generosity.
Generositee Creek, in & Carolina, enters the Savannah River in Anderson district.
Gen'erous, a. [Fr. généreux; Lat. generosus—genus, race, descent, high or noble birth.] Noble; honorable; magnanimous: openhearted.

magnanimous; openhearted.

'Such was Roscommon, not more learn'd than good, With manners gen'rous as his noble blood."—Pope

"tile manner ger rote an in noise neced." — Pope.

-Liberal; bountiful; munificent; open-handed; bounteous; free to give; beneficent; as, a generous master.

-Strong; enlivening; full of vigor and spirit; exciting and exhilarating the body; as, generous wine.

-Abundant; plenteous; characterized by generosity; as, he keeps a generous table.

-Courageous; full of life and mettle; sprightly.

"His op'ning hounds . . . a generous pack."

Gen'erously, adv. Honorably; nobly; magnanimously; liberally; munificently. dien'erousness, n. Quality of being generous; nobleness of mind; magnanimity.

"The overflowing generousness of the divine nature." - Collier.

Generosity; open-handedness; munificence; liberality;

-Generosity; open-handedness; munificence; liberality; bountifulness.

Genesee', in California, a post-office of Plumas co.
Genesee' (in-e-see'), in Michigon, an E. contral co.; area, about 640 m. Rivers. Flint and Shawassee rivers, and the Thread and Kearsley creeks. Surface, hilly; soil, fertile. Cap. Flint. Pop. (1894) 40,553.

—A township of the above co.
Genesee', in Minasola, a village of Kandiyohi co., about 16 m. W. by S. of Forest City.
Genesee', in Necada, a villagt and mining district of Douglas co., on the E. side of Carson Valley, opposite Genes.

Genos.

Genesee', in New York, a W. co.; area, about 500 sq. m.

Ricers. Towanda, Allen's, and Oak Orchard creeks.

Surface, undulating; soil, fertile. Mis. Iron and limestone. Cap. Batavia. Pp. (1890) 33,265.

A township of Allegany co.

enessee, in Pennylvania, a township of Potter co.

A post-office of Potter co.

—A township of Allegany co.

Genessee', in Penssylvania, a township of Potter co.

—A post-office of Potter co.

Genessee', in Wis, post-township of Waukesha co.

Genessee', in Wis, post-township of Waukesha co.

Genessee' Falls, or Post-adeviller, in New York, a
village of Genessee Falls township, Wyoming co., on the

Genessee Falls township, Wyoming co., on the

Genessee river, about 50 m. E.S.E. of Buffalo. The river

at this place flows between almost perpendicular walls

about 400 feet in height, and has several fine falls of

from 60 to 110 feet sach. The stream is here spanned

by the famous "Portage bridge."

Genessee' Growe, in Illinois, a village of Whitesides

co., about 94 m. N. by W. of Peoria.

Genessee' Elever, in Penssylvania and New York, rises

in the N. part of Potter co. in the former State, and

enters New York in Allegany co.; thence flowing a

general N.E. and N. course through Wyoming, Living
ston, and Monroe cos., it enters Lake Ontario near

Charlotte, about 7 miles below Rochester, after a course

of about 145 m. The G. R. is not only notable for the

varied and romantic character of its scenery, but is also

tamous for its extraordinary falls. Of these falls, which

are five in number, three occurring within a distance

of two miles, in the vicinity of the town of Portage,

about 90 m. from the mouth of the river, are respec
tively 60, 90 and 110 ft. high. The other two, the one

occurring immediately above Rochester, and the other

about 3 m. below that city, are both of about 100 feet.

Genesse' 0, in livinois, a city of Henry co., on the C., R.

I. & P. R.B., 23 m. E. of Rock Island; has some manu
factories, and is seat of Northwestern Normal College.

Pop. (1897) about 3,550.

Genesse' 0, in lowe, a township of Cerro Gordo co.

—A post-township of Tama co.

Genesse' 0, in lowe, a township of Cerro Gordo co.

A post-township of Tama co.

Genesse' 0, in lowe, a township of beget, to procreat

to bring forth!

Gen'esis, n. [Gr., from gennaō, to beget, to procreate, to bring forth.] Act of producing; generation; birth; creation

creation.

A theoretical description of the origin of anything.

(Geom.) Same as GENERATION, q. r.

(Script.) The name given to the first book of the Bible, on account of its containing a narrative of the generation or production of all things. The Hebrew name is Berezhith ("in the beginning"), from its commencing with that word. Its history goes back to the very earliest ages of the human race, and extends over a period of at least 2,370 years. It gives an account of

the creation, the fall of man, the settlements, genealogies, arts, religion, corruption, and destruction of the antediluvian world; of the repeopling and division of the
earth, the dispersion of its inhabitants, the calling of
Abraham, the rise and progress of the Jewish nation,
dc. It is divided into two main parts,—one saviersoi
and one special; the former being the ancient history
of the whole human race, contained in chapters 1.-xi.,
the latter the early history of the children of larsei
(xii-1.). There are some critics who maintain that this
book was not written by Moses; and there are certainly
some one after his death, as they refer to subsequent
events; but that the book as a whole was written by
Moses, there is little room to doubt. Much ingenious
speculation has been expended as to the manner in speculation has been expended as to the manner in which Moses was made aware of what had taken place so many centuries before his own time. According to some, the different events recorded in the book were

so many centuries before his own time. According to some, the different events recorded in the book were divinely revealed to him; others hold that he acquired his knowledge of them by tradition; and a third class, that he obtained it from old documents. (Regarding the various subjects of controversy in this book, see Cranton, Deluga, &c.) The authenticity of Genesis was distinctly recognized by Christ; and passages from it are cited in the New Testament, twenty-seven times literally, and thirty-eight times substantially. Gene'et, n. [Fr.] A small horse.—See Jenner.—[Fr. genetle.] (2001.) A carnivorous animal, belonging to the family Viverride. It has a very beautiful soft fur, and is about the size of a very small cat, but is of a longer form, with a sharp, pointed snout, upright ears slightly pointed, and very long tail. The color of the G. is usually a pale reddish-gray, the sides of the body being spotted with black, and a dark line running along the back, where the hair, being longer than on the other parts, resembles a slight mane; the muzzle is dusky; beneath each eye is a white spot; the cheeks, sides of the neck, and the limbs, are spot-

limbs, are spotlimbs, are spot-ted in a propor-tionally small-erpattern than the body; and the tail is marked with black and white rings. Easily tamed, and of a mild disposition, the disposition, the



Fig. 1137. -(Viverra Malaccensis.)

disposition, the G., at Constantinople and various other parts of the East, is domesticated like the cat, and is said to be equally, if not more, serviceable in clearing houses of rats and other vermin. It is a native of the western parts of Asia, and is also occasionally found in Spain; but though it requires a warm climate for its subsistence and propagation, it has not been discovered in India or any part of Africa. This animal, like the civet, produces an agreeable perfume, it is however less proverful and an agreeable perfume; it is, however, less powerful, and its scent much sooner evaporates.

Genet', Genette', n. Catekin made into muffs, tip-

pets, &c.
Geneth'liac, Genethli'acal, a. [Gr. genthliakos
—genthic, birth, race, descent, —ginomat, to be born.]
Pertaining to nativities as calculated by astrologers.

—n. One who calculates nativities; an astrologer,
(Poct.) An ode or other short poem composed in honor
of the birth of au individual.

-n. One who calculates nativities; an astrologer.

(Fuct.) An ode or other short posm composed in honor of the birth of an individual.

Geneth'ilacs, n. sing. The science of casting nativities. Genethilal'ogy, n. [Gr. genethilalogia.] Act or art of casting nativities; astrology.

Genet'ic, Genet'ical, a. [Gr. genethilalogia.] Act or art of casting nativities; astrology.

Genet'ac, Genet'ical, a. [Gr. genethilalogia.] Pertaining to the origin of a thing, or its mode of production. Gene'w, (Canton of), the smallest canton of Switzerland, at the S.W. extremity of which, and of the lake which bears its name, it is situated, having N. the canton Vaud, E. and S. Savoy, and W. France; area, 913 sq. m. This canton, which ranks 22d in the Confederation, is composed of the territory of the ancient republic of Geneva, together with some communes formerly belonging to Savoy and France, annexed to it in 1815. Surface, flat, or but slightly uneven, being enclosed between the Jura Mountains on the N.W., and some Alpine ranges in the opposite direction. Rivers. Rhone and Arve. Clim. Mild. Soil, tolerably fertile, but not producing sufficient crops for home consumption. The canton furnishes a contingent of 880 men to the army of the Swiss Confederation. Cap. Geneva. Fop. (1895) 111,540. Geneva, the most populous city of Switzerland, and cap. of above canton, situated in a picturesque country, abounding in the most enchanting and magnificent prospects, at the S.W. extremity of the Lake of Geneva, 81 m. S.W. of Berne, and 70 N.E. by E. of Lyons. The Rhone divides G. into three parts, — the city on the right bank, the quarter of 8t. Gervais on the left. and the island between them, enclosed by two arms of the river. The city, or upper town, is the largest portion, and is in part built on an eminence, rising to nearly 100 feet above the level of the lake. Its streets are narrow, crooked, and steep; but many of its private edifices are good. It consists almost entirely of the residences of the burkher aristocracy. The lower town, or

Bergues, displaying a handsome frontage of tall houses, among which is the Hotel des Bergues, lined with a broad and fine quay towards the lake. The unsightly houses that formerly lined the margin of the lake in the lower town have been modernised and beautified; and a broad belt of land has been gained from the water to form a quay. This is connected with the Quai des Bergues on the opposite bank by a handsome suspension-bridge; and another bridge, communicating with a small island situated at the point where the Rhone leaves the lake, is ornamented with a bronze statue of Rousseau. G. is surrounded on the land side by ramparts and bastions, constructed about the middle of last century. These are of little use as fortifications, the city being These are of little use as fortifications, the city being is surrounded on the land side by ramparts and bastions, constructed about the middle of last century. These are of little use as fortifications, the city being commanded by adjacent heights,—but they serve as public promenades; and suspension-bridges have been thrown over them to facilitate the intercourse between the city and the surrounding country. The cathedral, or Church of St. Peter, occupies a conspicuous situation, and is an interesting specimen of the Gothic style of the 11th cent. Among public edifices are the new theatre, cost \$1,000,000; the monument erected to the Duke of Brunswick, who died here, leaving his fortune to the city of G., realizing 17,000,000 francs, out of this the monument and opera house were erected in 1879; town-hall, a Gallery of Paintings, a Museum of Natural History (containing the collections of Saussure, Bronaniart, De Candolle, and Necker), and the academy founded by Calvin, with faculties of jurisprudence, theology, natural science, and literature, and a library of 40,000 vols. G. has, besides, numerous literary, scientific, and educational institutions. Manaf. The principal source of the prosperity of this city lies in its manufactures of watches jewelry, musical boxes, and objects of virtú, &c. The number of working watch-makers and jewellers is estimated at nearly 6,000; and the number of watches annually made is estimated at upwards of 70,000,—and of these at least 60,000 are of gold. In watch-making and jewelry, it is also estimated that between 70,000 and 80,000 oz. of gold, and about 50,000 oz. of silver, are used yearly. The other industrial arts in operation here comprise combs, carriages, saddlery, agricultural implements, hardware, tools, cutlery, fire-arms, musical and philosophical instruments, printing-types, &c. Lithography and engraving is also extensively engaged in G. is the seat of the council of state, the supreme court of justice for the canton, a court of appeals, and a chamber of commerce. Pop. (1893) 78,777; with suburbe, 96,441.—G. is very ancient with a severity and strictness that impressed deep and abiding traces on its jurisprudence and manners. In 1782, owing to internal dissensions, G. was occupied by the troops of France, Sardinia, and Berne. In 1798 it was taken by the French revolutionary forces, and subsequently became the cap. of the dept. Leman. It was, with its territory, united to Switzerland as an independent canton in 1814. Few cities have produced more eninent individuals. Among others may be specified Rousseau, Casaulon the critic, Lefort (the friend of Peter the Great), Necker and his daughter, Madame de Staël, the naturalists Saussure, Deluc, Bonnet, and Jurine, De Candolle and Huber, the philosopher Abausti, J. B. Say the political economist, and Sismondi the historian. In 1872, the Alabama Question was settled at a convention held here.

dene'va, (Lake of.) or Lake Leman. [Ger. Genfer See, anc. Lacus Lemanus.] The largest lake of Switzerland, near the S.W. extremity of which country it is situated. anc. Lacus D.manu...] The largest lake of Switzerland, near the S.W. extremity of which country it is situated. It has N., E., and S.E. the cauton of Vaud or Leman; S.W. that of Geneva; and S. Savoy. It fills up the lower portion of an extensive valley enclosed between the Alps and the Jura. It is crescent-shaped, the convexity being directed N.N.W. and the horns facing S.S.E. Its greatest length — a curved line passing through its center from Geneva at its W. extremity to Villeneuve at its E.—is abt. 45 m.; but along its N. shore the distance from end to end is abt. 55 m., while along its S. is is no more than abt. 40 m. Its breadth varies from 1 to 9 m.; its area is estimated at abt. 240 sq. m. Its greatest depth, near Meillerie, towards its E. extremity, is said to be 1,012 (950 Fr.) ft.; its level is abt. 1,200 ft. above that of the Mediterranean. It is divided, in common parlance, into the Great and Little lake; the latter is more exclusively called the Lake of Geneva, and extends from that city for a distance of 14 m., but with a breadth never more than 3½ m., to Point d'Yroire; beyond which Lake Leman widens considerably. The Rhone enters it near its E. extremity, bringing with its onuch alluvial soil, that considerable encroachments are continually made on its upper end. Port Vallala, page 114 m. distant. so much alluvial soil, that considerable encroachments are continually made on its upper end. Port Vallais, near 1½ m. distant, was formerly on the margin of the lake, the basin of which is said to have originally extended upwards as far as Bex. The Rhone emerges from the lake at its S.W. extremity, where its waters, like those of the lake itself, are extremely clear, and of a deep-blue color: circumstances which have been often adverted to by Lord Byron, (Childe Harold, iii. s. 58, 86.) Lake Geneva receives upwards of 40 other

rivers, the principal of which are the Venoge, from the N., and the Drause, on the side of Savoy. It seldom freeses, and has never been known to be entirely frosen over. It is subject to a singular phenomenon called the seiches. This consists in a sudden rise of its waters, generally for 1 or 2 ft., but sometimes as much as 4 or 5 ft., followed by an equally sudden fall; and this ascent and descent goes on alternately, sometimes for several hours. This phenomenon is most common in summer and in stormy weather; its cause has not been satisfactorily ascertained; but it would seem to depend on the unequal pressure of the atmosphere upon different parts of the lake. Lake Geneva abounds with fine fish. Its banks are greatly celebrated for their picturesque beauty and sublimity. Their scenery is the most imposing at its E. extremity; but the whole of the S. shore exhibits great boldness and grandeur. The N. shore is of a softer character; it is adorned with a succession of low hills covered with vineyards and cultivated lands, and interspersed with numerous towas, villages, and chateaux. Nyon, Rolle, Morges, Ouchy, (the port of Lausanne), Vevay, Clarens, and the Castle of Chillon, are on the N. bunk; on the S., or Savoy side, are Meillerie, Thonon, and the Campagnua Diodati in the Genevese territory, the residence of Ryron in 1816. Steemers ply daily upon the lake, which is also encircled by a line of railroad.

Geneva, in Alabama, a post-office of Talbot co.
Geneva, in Illinois, a city of Kane co., on C. & N. W.

encircled by a line of railroad.

Gene'wa, in Alabama, a post-town, cap. of Geneva ca.

Pyp. (1890) 637.

Geneva, in Georgia, a post-office of Talbot co.

Geneva, in Illinois, a city of Kane co., on C. & N. W.

B. R., 35 m. W. of Chicago; has good water power and varied manuf. Pop. (1897) about 2,000.

Geneva, in Indiana, a post-town of Adams co.

Geneva, in Indiana, a post-town of Adams co.

Geneva, in Indiana, a post-town of Adams co.

Geneva, in Michigan, a village of Kalamazoo co.

Geneva, in Michigan, a city, cap. of Fillmore co., on the C., B. & Q. and F., E. & M. V. R. Rs., 60 m. W. S. W. of Lincoln. Has creamery, cannery, &c., and a fine trade in farm products. Pop. (1897) about 2,200.

Geneva, in New York, a beautiful town of Ontario co, at the N. end of Seneca lake, 26 m. W. of Auburn; has a variety of manuf., and is the seat of Hobart College (P. E.), a State Agricultural Experiment Station, a fine observatory, &c., Pop. (1897) about 8,000.

Geneva, in Ohio, a post-town and township of Ashtabula co., on L. S. & M. S. R. R., 10 m. S. W. of Zanesville.

Geneva, in Micconsia, a village of Walworth co.

Gene'wa, in Wicconsia, a village of Walworth co.

Gene'wa, in Wicconsia, a village of Walworth co.

Gene'wa, in Wicconsia, a village of Walworth co.

Gene'wa Bay, in Wicconsia, a village of Walworth co.

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Gene'wa Bay, in Wicconsia, a village of Walworth co.

Gene'wa Bay, in Wicconsia, a beautiful sheet of water in Walworth co.; crea, about 8 sq. m., is a famous summer resort. On its N. shore

Genevae, a. Pertaining to Geneva, in Switzerland.

—n. [Fr. Genevoi; lat. Genevans, from Genera.] A
native or inhabitant of Geneva; —the people of Geneva

native or inhabitant of Geneva; — the people of Geneva taken collectively.

Genevese, Geneveois, an ancient prov. of the Sardinian States, in the W. of Savoy, now included in the French dep. of Savois (Haute), q. v.

Geneviève, (St.,) (jen-ch-viev.) the patron saint of Paris, B. at Nanterre, abt. 422, was, according to the generally received opinion, a simple shepherdess. On the advice of St. Germain of Auxerre, she consecrated herself to God, and, after the death of her parents, came to Paris to live with her godinother, where she led a devout and abstinent lifetime. According to tradition, at the time of Attlia's invasion of Gaul (451), the affrighted Parisians were ready to abandon their city, which St. the time of Attila's invasion of Gaul (451), the affrighted Parlsians were ready to abandon their city, which St. Geneviève prevented, by telling them that the city would be spared, and her prediction was verified. On another occasion she procured provisions for the Parisians, who had been for some time suffering from famine. At her instance, Clovis built in the upper portion of Paris a church in honor of Ss. Peter and Paul, which afterwards received the name of the saint herself. The Church honors her on the 3d of January, the date of her death. Her relics were exposed to the veneration of the faithful in the church which hore her name, but after the destruction of that church they were transferred to the church of St. Etienne du Mont. Since 1852 they have been transferred to the magnificent basilica, formerly called the Pantheon, to which its original name of St. Geneviève has been restored. D.512. Genevieve, in Missouri, a township of St. Genevieco.

Genevois, (ghen'ev-woi,) n. pl. The people of Geneva;

Gemevois, (phen'er-woi,) n. pl. The people of Geneva; the Genevee.

Gemevre, (zhender',) (Mount,) a summit of the Cottian Alpa, between the Italian prov. of Sams and the French dep. Haute-Alpes. It is crossed by a road constructed by Napoleon I., at an elevation of nearly 6,000 feet. Height of the summit, 11,615 feet.

Geng'his-Kham, or Zingi-Khan, the son of a petty Mongolian prince, was 2. in Tartary in 1163. After

Khan had sent to Turkestan occasioned the invasion of that country in 1218, with an army of 700,000 men; and the two great cities of Bokhara and Samarcand were stormed, pillaged, burned, and more than 200,000 lives destroyed with them. He continued his career of devastation for several years; and in 1225, though more than 60 years old, he marched in person, at the head of his whole army, against the king of Tangut, who had given shelter to two of his enemies and refused to surrender them. A great battle was fought on plains of e.e. formed by a frozen lake, in which the king of Tangut was totally defeated, with the loss of 300,000 men. G.-K., whose ravages had cost the human race, if we are to accept the perhaps exaggerated computation of G.-K., whose ravages had cost the human race, if we are to accept the perhaps exaggerated computation of Eastern writers, upwards of 5,000,000 human beings, became, by dint of successive victories, monarch of a territory extending 1,500 leagues, including Northern China, Eastern Persia, and the whole of Tartary. Din 1227, in the 64th year of his age and in the 52d of his reign,—having, before his death, divided his immense territories between his four sons.

Ge'mial, a. [Lat. genialis, from genius, a tutelar deity, the spirit of social enjoyment, talent; from gignere, to produce, to bring forth.] Contributing to propagation or production; that causes to produce.

"Crestor Yeaus, senial power of love."—Dryden.

"Creator Venus, gestal power of love." — Dryden.
—Gay: merry: jovial: joyful: festive; entertaining; contributing to life and cheerfulness; as, a genial manner or disposition.

ner or disposition.

-Supporting life.

"So much I feel my genial spirits droop."— Milton.

Gemial'ity, n. [L. Lat. genialitas, from genius.] Gayety; cheerfulness.

Ge'mially, adv. Gayly; cheerfully.

Ge'mialless, n. The quality of being genial.

Ge'mian, a. [Gr. geneion, the chin.] (Anat.) Belonging to the chin, so the genian apophysis situate at the posterior part of the symphysis menti, and formed of four small tubercles.

Genie'miantes. Genie'mlanted. a. [Lat. geniculatus.

of four small tolercies.

Genic'ulate, Genic'ulated, a. [Lat. geniculatus. from geniculam, a joint, dim. of genu, the knee.] (Bot.)

Applied to a stem when bent abruptly like a knee.

Genicula'tion, n. [L. Lat. geniculatio.] The state of being suddenly or abruptly bent at an angle; resembling the knee.

sembling the knee.

Genie, (zhener',) n.; pl. GENII. [Fr.] (Myth.) See GENIUS.

Geni'pia, n. [From genipapo, the Guiana name.] (Bot.)

A gen. of trees, ord. Cinchonacce. The Genipa fruit of

S. America, as large as an orange and agreeably flavored,
is obtained from the species G. Americana. In Surinam
it is known by the name of Marmalade Box.

Gen'il, or Kem'il, a river of Spain, in Andalusia,
which, after a course of 130 m., empties into the
Guadalquivir, 32 m. from Cordova. The city of Granada
is situate on its banks.

is situate on its banks.

Ge'nieglos'si, s. pl. [Gr. geneion, chin, and glossa, tongue.] (Anat.) The pair of muscles by which the tongue is protruded.

tongue is protraded.

Gemis'ta, n. [Lat. genu, knee, in allusion to the angular or jointed appearance of its twigs.] (Bot.) A genus of plants, order Fabaces. The species G. tixotoria, naturalised in the U. States, the Dyer's Brown, yields a good yellow dye, or, when mixed with wood (Initi tixotoria), a green.

Gem'ital, a. [Fr., from Lat. genitalis, from gigners, to beget, allied to and derived from Gr. gignesthat.] Perlaining to the act of begetting; causing generation or birth.

birth

orth.

Gen'itals, n. pl. [Lat. genitalia; so, membra.] Those parts of an animal that are the immediate instruments of generation; the sexual organs.

Gen'iting, n. [Corruption of Fr. Jeanneton, so called from a lady of that name.] An apple that ripens early in June.

in June.

Gen'itive, a. [Lat. genitivus, from gignere, genitum, to beget, to produce.] (Gram.) Pertaining to a case in the decleusion of nouns, expressing primarily the thing from which something else proceeds, but which has been extended to signify property, possession, &c.

—n. The possessive case; the name of the second case in the decleusion of nouns generally indicating the relation ex-

extended to signify property, possession, &c.

—n. The pussessive case; the name of the second case in the declension of nouns, generally indicating the relation expressed in English by the preposition of. "The Latin G.," says Max Müller, "is a mere blunder; for the Greek word genike never meant genitivus. Genitivus, if it is meant to express the case of origin or birth, would in Greek have been called gennetike, not genike. Nor does the G. express the relation of son to father. For though wo may say 'the son of the father. For though we may say 'the son of the father. We may likewise say 'the father of the son.' Genike in Greek had a much wider, a much more philosophical meaning. It meant cusus generalis, the general case, or, rather, the case which expresses the genus or kind. This is the real power of the G. If say, 'as bird of the water,' tof the water defines the genus to which a certain bird belongs; it refers it to the genus of water-birds." (Lectures on the Science of Language.) In English, the genitive or possessive case is marked by the addition of the letter s preceded by an apostrophe; as, the king's son, my faller's horse. When the plural ends in z, the additional z of the G. is omitted (excepting sometimes in proper names), and only the apostrophe added; as, the kings' sons. Gem'16a, in Virginia, a post-village of Powhattan co., on the Apponentox River, about 29 m. W. of Richmond.

much intestine warfare with various Tartar tribes, this Gem'iture, n. [Fr., from Lat. genitura, a begetting, from renowned conqueror was proclaimed khan of the united Mongol and Tartar tribes. He reorganized his army, Mongol and Tartar tribes. He reorganized his army, guiden a code of laws, and made preparation for the rourse of conquest to which he professed he had a divine call. In 1210 he first invaded China, the capital of which was taken by storm and plundered several years later. The murder of the ambissadors whom Genghister. The without the surface of the courter in 1218 with an army of 700 000 men and G. hence the work game to sirrify the natural powers. acter and conduct was ascribed to the influence of his G.; hence the word came to signify the natural powers and abilities of men, more especially their natural incli-nation or disposition. In modern times it has come to be employed in a still more restricted and special sense, as signifying the very lighest condition of the mental powers, the perfection of human intelligence. Like many other words of a similar kind, it is difficult or im-possible to dafine it in words; but there is always asso-ciated with it the idea of creative or inventive powers. According to Emerson, it is the "constructive intellect." ciated with it the idea of creative or inventive powers. According to Emerson, it is the "constructive intellect," which "produces thoughts, sentences, poems, plans, designs, systems. It is the generation of the mind, the marriage of thought with nature." "The thought of G is spontaneous, but the power of picture or expression in the most enriched and flowing nature implies a mixture of will, a certain control over the spontaneous states, without which no production is possible." G produces what has never before been accomplished; "it is the advent of truth into the world, a form of thought now for the first time bursting into the universe. thought now for the first time bursting into the universe, a child of the old eternal soul, a piece of immeasurable greatness." Its chief faculties are the reason and the greatness." imagination, and according as one or the other of these faculties predominates, it becomes either scientific or artistic. "In the first case it seizes at once those hidartistic. "In the first case it seizes at once those finden affinities which otherwise do not reveal themselves except to the most patient and rigorous application, and, as it were, intuitively recognizing in phenomena the unalterable and eternal, it produces truth." In the latter it seeks "to exhibit its own ideal in due and approter it seeks "to exhibit its own ideal in due and appropriate forms; it realizes the infinite under finite types, and so creates the beautiful." G. is sometimes used to signify that talent or aptitude which we receive from nature from excelling in any one thing whatever. Thus we speak of a G. for mathematics as well as a G. for poetry: of a G. for war, for politics, or for any mechanical employment. The distinction between G. proper and talent is thus given by De Quincey: "Genius is that mode of intellectual power which moves in alliance with genial nature, i. e., with the capacities of pleasure and pain; whereas, talent has no vestige of such an alliance, and is perfectly independent of all human sensibilities; consequently, G. is a voice or breathing which represents the total nature of man, and therefore his stolities; consequently, G. is a voice or breathing which represents the total nature of man, and therefore his enjoying and suffering nature; whilst, on the contrary, talent represents only a single function of that nature." And hence, also, it is, that, "besides its relation to suf-fering and enjoyment, G. always implies a deeper relation to virtue and vice: whereas talent has no shadow of a relation to moral qualities, any more than it has to

vital sense."

(Myth.) According to the Romans, not only every man had his G., who, after guiding him through life, conducted him out of the world at the close of his career; but places, and even inanimate objects, were falled to have their genil. The collective Roman people also had their G., who was sometimes represented on coins. Those of the women were called Junones. They sometimes held that each person was accompanied through life by two genil, a white and a black, the former good and favorable, the latter bad and unfavorable; at other times they believed in but one, which was black and white by turns. Divine honors were paid to the genii, and it was usual for each one to offer sacrices to his G. on his birthday.—The genii, or djimns, of the East bear little resemblance to those of the Romans. They are regarded as an intermediate class of beings, between angels and men, but inferior in dignity mans. They are regarded as an intermediate class of beings, between angels and men, but inferior in dignity to both, and are not objects of worship. In poetry they are described as having been created out of fire, and as having inhabited this world before its occupation by man, as the subjects of a certain Ján Ibn Ján. They rebelled, and God sent his angel Iblis, or Eblis, who, after conquering Ján Ibn Ján, rebelled against God, and set himself up in his room; whereupon God condenned him to eternal punishment. The djinns, like nen, are some good and some evil. They eat and drink, are subject to pussions and death, but may live for centuries. They are capable of becoming invisible, or are subject to passions and death, but may live for centuries. They are capable of becoming invisible, or assuming the forms of men, beasts, or monsters, at pleasure. They frequent baths, wells, ruined houses, seas, rivers, cross-roads, and market-places. The evil genii delight in mischief for its own sake, raise and direct whirlwinds, and dry up the springs of the desert. The ghouls are a subordinate class of evil genii, haunting deserts and burial-grounds, and killing and devouring men and women that fall in their way. The peris, faities, are beautiful femule genii, who believe in God, and in Mohammed, his prophet, and do good to man. The Mussulman doctors believe in the existence of dinns as supernatural beings, but their ideas of them dinns as supernatural beings, but their ideas of them differ much from those of the poets and romancers.

Ge'nius lo'ci, n. [Lat.] In Roman mythology, the presiding deity of a place; — hence the prevalent feeding; the pervading atmosphere of a place, or establishment, as of a college.

ennes'areth, (Lake of,) in Palestine. See Galilli (SEA OF).

(Sta or).

Gen'on. [It. Genora.] A maritime prov. of N. Italy, forming a long tract, which extends along the shores of the Gulf of Genoa. Area, 3,000 sq. m. Desc. This prov. is traversed by the Apennines, which yield pasture to

numerous herds of cattle, whilst the valleys are fertile, producing abundance of grain. Rivers. The Bleagno, Magra, Polcevera, and Vara. Ain. Marble is the most valuable. Cap. Genoa. Pop. 707,718.—This territory corresponds nearly to the Upper Liquitia of the Romans, and, in 1798, was joined to France under the title of the Republic of Liquita. In 1815 it was assigned to Sardinia, and called the Ducky of Genoa. Now a province of Italy, with an area of 1,888 sq. m.

1317

Republic of Ligaria. In 1815 it was assigned to Sardinia, and called the Duchy of Genoa. Now a province of Italy, with an area of 1,888 aq. m.

Genoa, (j:n'o-ā.) [It. Genora.] A celebrated fortified maritime city of N. Italy, (and birthplace of Christopher Columbus,) once the cap. of an independent republic, and now of the above province, at the head of the gulf of the same name; 75 m. S.E. of Turin, and 90 N.W. of Leghorn. G. is built round, but principally on the E. side of its port, which is semicircular, the chord being about 1 m. in length. Two gigantic moles (Molo ecochio and Molo nuoro) project into the sea from either angle, and inclose and protect the harbor. The land on which the city is built rises amphitheatre-wise round the water-sedge to the height of from 500 to 600 ft., so that its aspect from the sea is strikingly grand and imposing. The white, snowy houses form streets at the base of the acclivity, while the upper part is thickly studded with detached villas. Behind all, the Apennines are seen towering at the distance of 10 or 12 m., their summits snow-covered during a part of the year. The older or E. portion of the city consists of a labyrinth of excessively narrow, crooked, and dark streets, their breadth being generally no more than from 6 to 12 ft.; they are, however, paved sith broad flags of lava, and present the smoothness and durability of good masonry. The newer part of the city, which stretches along the N. side of the port, is more regularly laid out, and contains some broad and very handsome streets, one of which, the Strada Balbi, is entirely formed of palaces, more magnificent than those of Rome, and neater in their interior. In Italy, G. has acquired, and deserves, the title of Genoca la Sup-rba. It exhibits fewer remains of ancient splead or tis site, but more actual wealth and comfort. Its most splendid palaces are the two Pulazic Duria, in one of which the emperors Clarles V. and Napoleon I. resided during their stay in Genoa; the other is now a residence of the king of Ital a light-house, a refitting dock, and an arsenal. Healthy. Inhab.

The women of G have long been quoted for their exceptional beauty; while, me fishers and tea-men, her sons have been celebrated for generations, throughout Europe, for their intrepidity and spirit of enterspirit of enter-prise. G. is the en-trepôt of a large extent of coun-try, and her com-merce, though in-ferior to whe ferior to what it once was, is still very considera-ble. She is a free port. The various duties and cus-tom-house fees formerly charged on the transit of



Pig. 1138. - A GENOESE FISHER.

on the transit of goods through Genoa and the Italian territories have recently been abolished. The Bank of St. George, here, was one of the oldest banks of circulation in Europe, (see Bankino.) Manuf. Velvets, silka, damaska, paper, soap, and articles in marble, alabaster, and coral.—G. is of great antiquity. After a variety of vicissitudes and became, in the 11th century, the cap. of an independent republic; and was early distinguished for the extent of her commerce, and by her settlements and dependencies in various parts of the Mediterranean and of the Black Sca. Their conflicting pretensions and interests involved the Genoese in long-continued contests with the rival republics of Pisa and Venice. The struggle with the latter, from 1376 to 1382, is one of the most memorable in the Italian annals of the Middle Ages. The Genoese having defeated the Venctians at Pola, penetrated to the lagoons which surrounded Venice, and took Chioggia. Had they immediately followed up this success, the probability is that they would have taken Venice; but having procrastinated, the Venetians recovered from their consternation, and compelled the Genoese to retire. The ascendancy of Venice dates from this period. The government of G. was long the most turbulent that can be imagined; and the city was agitated by continual contests between the nobility and that sittens and between sections of the publitizers and the transit of the publitizers and between sections of the probability of the probability of the publitizers and between the content of the publitizers and between sections of the publitizers and the transit of the publitizers and the transit of the publitizers and the transit of the publitizers and between sections of the publitizers and the transit of the publication of the publitizers and the transit of the publication of the publication of the publication of the publication of the goods through Genoa and the Italian territories have tated by continual contests between the pobility and the citizens, and between sections of the nobility themselves.

For their protection, the citizens placed themselves, at different periods, under the protection of France, the Marquis of Moniferrat, and the dukes of Milan. Indeed, from 1464 down to 1523, G. was regarded as a dependency of the latter. In the last-named year, however, it recovered its independence, and was, at the same time, subjected to a more aristocratical government. In time, subjected to a more aristocratical government. In 1376 further modifications were made in the constitution, after which it enjoyed a lengthened period of tranquility. The conquest of Constantinople, and of the countries round the Black Sea, by the Turks, and the discovery of the passage to Iudia by the Cape of Good Hope, proved destructive of a great portion of the Genoese trade. G. was, also, successively stripped of all her foreign possessions. Corsica, the last of her dependencies, revolted in 1730, and was ceded to France in 1768. In 1797 G. was occupied by the French. Pop. (1893) 214,310. Genica, in Illinoia, a post-village and township of De Kalb co., about 220 miles N. by E. of Springfield. Pop. (1897) 724.

occupied by the Frience. Fop. (1995) 232,222.

Gen'oa, in Illinois, a post-village and township of De Kalb co., about 220 miles N. by E. of Springfield. Pop. (1897) 724.

Genoa, in Iora, a post-village of Wayne co., about 16 m. S. E. of Corydon.

Genoa, in Mebraka, a post-village of Nance co.

Genoa, in Nebraka, a post-village, cap of Douglas co., on Carson river, near the E. base of the Sierra Nevada, about 14 miles S. of Carson City.

Genoa, in New York, a post-village and township of Cayuga co., on Cayuga lake, about 160 miles W. of Albany.

Genoa, in Ohio, a township of Delaware co., on the C., Mt. V., and C. R. R.

— A post-village of Ottawa co., about 15 m. S.E. of Toledo.

— A village of Pickaway co., about 14 miles S. by W. of Columbus. Now called Commercial Point, a post-vill.

Genoa Bluff, in Iora, a post-township of Vernon co.

Genoese', a. Of, or belonging to, Genoa.

Genoa Bluff, in Iora, a post-township of Iora, and pl. A native or inhabitant of Genoa.

Genoaullere, (chnool-yare'), n. [Fr. genoa; Lat. genu, the knee.] (Mil.) In fortification, the part of the interior slope of the parapet below the sill of an embraure. It covers the lower part of the gun-carriage. — In armor of the 14th century, the knee-piece or knee-low.

Genre, (zhon'r.) n. [Fr.] (Puinting.) A term applied to express a class of pictures which belong to none of the higher or specific classes of art. It refers commonly, as the full French expression implies, to ordinary seenes of vulgar life. Yet a pennire de genre, or genrepainter, is not necessarily a painter of low subjects, nor need a genre picture be vulgar in the common acceptation of the word. The Dutch are the great G. painters.

Gens. [Lat.] (Rom. Hist.). A clan or sect, forming a subdivision of the Roman people next in order to the curia or tribe. The members and houses (families) composing one of these clans were not necessarily united by ties of blood, but were originally brought together by a political distribution of the citizens, and bound by religious ritos, and a

that each of these was represented in the senate by one of its members.

Gen'seric, a famous Vandal prince, B. at Seville, 406. He passed from Spain to Africa, where he took Carthage, and laid the foundation, in Africa, of the Vandal kingdom, which was composed of Numidia, Mauritania, Carthage, Corsica, Sardinia, and the Balearic Isles. In the course of his military expeditions he invaded Italy, and sacked Rome in 455. D. 477.

Genteel', a. [Fr. gentil; Lat. gentilis, from gens, race, clan, or family.] Easy and graceful in manners and behavior; polite; well-bred; refined; polished; having the manners of well-bred people; becoming well-bred persons; as, a genteel appearance, genteel people, &c.—Graceful in mien or form; elegant; fashionable; decorous; free from anything low or vulgar.

free from anything low or vulgar.

"So spruce that he can never be genteel."—Tatler.

Genteel'ish, a. Somewhat genteel. Genteel'ly, adv. Elegantly; politely; gracefully; hand

Genteel'ness, n. Quality of being genteel; gentility

Genteel mess, n. Quality of being genteel; gentlifty; elegance; gracefulness; politeness.
Gen'thite, n. (Min.) An amorphous incrusting mineral; quite soft. Lustre resinous, color pale apple-green, or yellowish. Comp. Silica 35-36, oxide of nickel 30-64, oxide of iron 0-24, magnesia 14-6, lime 0-26, water 19-09. Occurs at Texas, Pa., on chromic iron, and at Webster, N. Carolita.

N. Carolina.

Gentiama, (jen-she-ai'na.) n. [Lat., from Gentius, king of Illyria, said first to have discovered the properties of the plant.] (Bot.) The typical genus of the order Gentianacen. The species are numerous, natives of temperate parts of Europe, Asia, and America, many of them growing in high mountain pastures and meadows, which they adorn by their beautiful blue or yellow flowers. The common G., called also Yellow G., or Bitter-wort, G. lu-tra (Fig. 1139), is abundant in the meadows of the Alps and Pyrenes, at an elevation of 2000 to 6000 ft. It has a and Pyrences, at an elevation of 3000 to 6000 ft. It has a stem about 3 feet high, ovate-oblong leaves, and numerous whorls of yellow flowers. The part employed in medicine is the root, which is cylindrical, ringed, and more or less branched; and which appears in commerce in a dried state, in pieces varying from a few inches to more than a foot in length, and from half an inch to two inches in thickness. G. is a highly valued medicine, as thickness. G. is a highly valued medicine, as simple tonic bitter without astringency, and is much used in diseases of the digestive organs, and sometimes and Pyrenees, at an elevation of 3000 to 6000 ft. It has a

an anthelmintic. It may be administered in the form as an antherminic. It may be sumministered in the form of infusion, tincture, or extract. Among the American species are G. pneumonanthe, the Calathiau violet, a fine plunt, with large, showy violet or blue flowers; and G. catesberi, that is often used as a substitute for the officinal gentian, from which it differs only by the color of its flowers, which are blue, while those of the foreign gentian, which are blue, while those of the foreign gentian are vellow.

GENT

tian are yellow.

\*\*Pentiama\*\*(eee., n. pl. (Bot.) An order of plants, alliance Gentiamales. Diag. No stipules, simple stigmas at the end of a manifest style, parietal placente, and regular flowers. They are herbs, or rarely shrubs, usually smooth. Leaves usually simple, entire, opposite, sessile, and strongly ribbed; rarely alternate, or stalked, or compound; always exstipulate. Flowers almost always regular, variously colored, axillary or terminal. Calyx inferior, persistent, usually with five divisions, occasionally four, six, eight, or ten. Corolla persistent, its divisions corresponding in number to those of the calyx; estivation imbricate, twisted or in duplicate. Staniens as many as the segments of the corolla, and alternate with them. Ovary 1-celled, or rarely partially ternate with them. Ovary 1-celled, or rarely partially 2-celled, from the projection inwards of the placentas,



eapsule; b, capsule out across: c, vertical section of seed, magnified.

with numerous ovules; placentas 2, anterior and poswith numerous ovuies; piacentas 2, anterior and pos-terior to the axis, and frequently turned inward; style 1. Fruit capsular, 2-valved, with septicidal dehiscence, or a berry. Seeds numerous and small; embryo minute, in the axis of fleshy albumen. The order has been di-vided into two sections or sub-orders, the characters of which are taken from the estivation of the corolla. These which are taken from the estivation of the corolla. These are, Gentiancz, with the corolla imbricate-twisted, and Menyanthez, with the corolla imbricate-twisted, and Menyanthez, with the corolla platted, or in duplicate. The plants included in the order are found in nearly all parts of the world, even in the coldest and the hottest regions. A bitter principle almost universally pervades them; hence many are used medicinally for their tonic, atomachic, and febrifugal properties. There are 63 genera and about 450 species. Gentiamales, n. pl. (Bot.) An alliance of plants of the sub-class Prigynous Exogens. Diao. Dichlamydeous monopetalous flowers, axile or pariettal placentee, and a minute embryo, or with the cotyledons much smaller than the radicle, lying in a large quantity of albumen. —This alliance is divided into the orders Ebenaces, Aquifniaces, Apocynaces, Loganiaces, Diapenciaces, Silbaces, Orobanchaces, and Gentianaces, Diapenciaces, Silbaces, Orobanchaces, and Gentianaces.

Gentiamin, or Gentiand in Gentian root, or which constitutes its bitter principle.

stitutes its bitter principle.

Gen't11, n. [Fr. faucon-gentil.] A species of falcon or hawk, supposed to be the Goshawk, Astur palumlarius. hawk, supposed to be the Goshawk, Astur palumlarius.

Gen'tile, n. [Last gentilis, from gens, a race or family.]

(Script.) A pagan, or worshipper of idols. The Jews classed all the inhabitants of the earth, with the exception of their own peculiar race, under the general name of goin, which is equivalent to the Latin gentes, nations: and after a time the term Gentiles began to be applied in a reproachful instead of a general sense. All who were not circumcised and Jews, were regarded as General these or heathers and as such thay were available as were not circumcised and Jews, were regarded as Gen-tiles or heathens, and as such they were excluded as much as possible from all those privileges and relations by which the Jewish nation became so exalted. As the Gentiles were, consequently, considered as outcasts and aliens from the favor of God, it is not much to be wonanens from the layer of God, it is not much to be won-dered at that the Jews were very prejudiced against a Saviour and a Gospel which inculcated the union of the two different sects, and placed the Gentiles on an equal footing with the Jews. Those of the Gentiles who em-braced Judaism, but were not Jews, were called prose-lyts; and the term Greeks, which is used often in the New Testament, is sometimes identical with Gentiles.

manners of well-bred people; genteelness; gracefulness

of mien.
Gen'tilize, v. a. To make or render gentle.
Gentil'ly, a village of Pr. of Quebec. co. of Nicolet,
about 75 m. B.W. of Quebec.
Gen'tile, a. [Lat. gentilis, from gens, gentis, a race or
nation.] Of respectable birth, though not noble. — Fire nation.] Of respectable birth, though not noble. — Free from coarseness or vulgarity of manners. — Urbane: courteous; affable; mild; meek; placid: soft: bland: docile; tame. — Southing, as music. — Treating with mildness; not violent.

Gentlefolk, (gen'tel-föke,) n. Persons of family and good breeding. It occurs more frequently in the plural form, as gentlefolks.

Gen'tle-hearted, a. Having a kind or gentle disposition

sition

Stion.

Gen'ileman, n.; pl. Gentlemen. [Fr. gentilhomme. i. e. homo gentilis. a man of ancestry.] Strictly speaking, every man above the rank of yeoman, including noblemen; a man who, without a title, bears coat-armor, of whose ancestors have been freemen.

"All the wealth I had ran in my veins; I was a go

 In common language, every man whose education or occupation raises him above menial service or any ordioccupation makes him above meaning service or any occu-nary trade.—A man of good family, breeding, politeness, correct manners, and educated mind; as distinguished from the vulgar, illiterate, and clownish.

"A long-descended race makes gentlemen." — Dryder

"A long-descended race masse genuemen."— erroom.

A term of complaisance.—A man of strict integrity and honor, of self-respect and intellectual refinement, as well as of refined manners and good breeding.

One who serves a man of rank and attends his person; as, he is my lord's gentleman (i. e. valet), a gentleman usher, &c.

(Hitt.) It is a matter of difficulty to give a correct definition of what entitles a man to the appellation of

usher, &c.

(Hist.) It is a matter of difficulty to give a correct definition of what entitles a man to the appellation of G., or to determine a standard by which persons who claim to hold this rank may be distinguished from those who possess no right to it. The original derivation of the word is from the Lat. gentilis, belonging to a tribe or gens, and home, a man. In the early days of Rome, the inhabitants of that city were divided into two classes,—the populus, or that portion of the community in whom all power lay, and the plebs, or commonalty. The populus, or body of the patricians or nobles, was further divided into tribes or gents, and each gens into families, all the members of which bore the common appellation of the tribe. To belong to a gens or tribe, was to take rank among the nobles, and in after-times, when the privilege of admission to a tribe was conceiled to men of plebeian origin, it was equivalent to the grant of a title of nobility by letters-patent from the crown in our own time. Hence the term gentilis was applied to all who were free-born, being descended from free-born ancestors, and belonging to a noble family; while that of sine gente. ("without family or standing.") was applied to men of low rank and origin, and these that were born of slaves. The term has been adopted in all European languages of which Latin forms the foundationstone and parent stock: while it is found in our own language in the word "gentleman," and gives the clue to the meaning of the expression gentle, well-horn, in contradictinction to its opposite simple.

Gen'tleman-farmer, n. In England, a man of property, who has his own farm cultivated under his direction.

Gen'tleman: gentle, well-bref; as, a gentleman; gentleman; gentleman; gentle; well-bref; as, a gentleman; gentleman]; gentle! well-bref; as, a gentleman; gentleman]; gentle! well-bref; as, a gentleman; gentleman];

direction.

direction.

den'tlemanlike, a. Like a gentleman; gentlemanly; genteel; well-bred; as, a gentlemanlike; person.

den'tlemanlineas, n. Behavior of a gentleman.

den'tlemanlike; genteel; well-bred; as, a gentleman; polite; gentlemanlike; genteel; well-bred; as, a gentlemaniy manner.

manner.

Gentlemen-at-Arms. (Eng. Hist.) A corps of 40 gentlemen whose duties are to attend the sovereign on state occasions. The corps was established by Henry VIII. in 1509, under the name of The Band of Gentlemen Pensioners. It consisted entirely of men of poble blood, and was called His Majesty's Honorable (hops of Gentlemen-at-Arms by William IV. in 1834, and is now recruited entirely from retired army officers. Gentlemens. n. Softness of manners; mildness of temper; sweetness of disposition; courteousness or urbanity of manners, or disposition; meckness; tenderness.—Mild treatment; suavity.

temper; aweetness of disposition; courteousness or urbanity of manners, or disposition; meckness; tenderness.—Mild treatment; snavity.

Gen tlewoman, n. A woman of good family or breeding; a lady; a woman above the vulgar.—A woman who waits upon the person of a lady of high rank.

Gen'tly, adv. Softly; tenderly; meckly; kindly; without roughness or asperity.

Gentry, (jen'try,) n. [Corrupted from gentlery.] In England, people of birth, property, and good breeding.

—The quality of people between the nobility and the trading classes.

Gentry, in Massonri, a N.N.W. co.; area, about 450 eq. miles. Ricers. Grand river, and numerous smaller streams. Surface, generally level; soid, fertile. Cap. Albany. Pop. (1890) 19,018.

Gentry's Mills, in Georgia, a P. O. of Dawson co. Gentry ville, in Indiana, a post-village of Spencer co, about 17 miles N. of Rockport.

Gentry ville, in Missonri, a post-town of Gentry co., about 17 miles N. of Independence.

Gentry ville, in Missonri, a post-town of Gentry co., about 50 miles N. of Independence.

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Gentry ville, in Missonri, a post-town of Gentry co., about 50 miles N. of Independence. article igitized by GOO

Gen'minely, adv. Without adulteration or foreign admixture; naturally; purely.
Gen'mineness, n. State or quality of being genuine, or of the true original.

Freedom from adulteration or foreign admixture; freedom from anything false or counterfeit; purity; reality.
Ge'mus, n.: pl. Gen'ral. [Lat., from Gr. genos, from geneshai, to be born.] A race; descent; kind; family; stock; lineage; kindred; extraction; breed.

(Zool.) A distinct group of species, allied by common characters, and subordinate to an order, family, tribe, or sub-tribe. A genus is often an arbitrary group, since, although it is a natural assemblage, nearly every naturalist has his own views with regard to the propriety of uniting or separating particular assemblages of species. The synonymy of genera has thus become more copious as the study of natural history has progressed, and presents one of the difficulties which the student of soilogy has to contend against.—See Species.

(Bod.) The term genus is applied to a collection of species of plants which resemble one another in general structure and appearance more than they resemble any other species. Thus the various kinds of brambles constitute one genus; the roses, another; the heaths, willows, clovers, oaks, &c., form also, in like manner, so many different general. The characters of a genus are taken exclusively from the organs of reproduction, while those of a species are derived generally from all parts of the

different genera. The characters of a genus are taken exclusively from the organs of reproduction, while those of a species are derived generally from all parts of the plant. Hence a genus may be defined as an assemblage of species which resemble one another in the structure and general characters of their organs of reproduction. It does not necessarily happen that a genus should contain a number of species, for if a single one presents peculiarities of a marked kind, it may of itself constitute

a genus.

(Logic.) One of the predicables, which is considered as the material part of the species of which it is affirmed.

(Mat.) Any scale of music. If a scale proceed by tones, it is called the diatonic genus; if between the tones semitones are introduced, it is called the chromatic genus. When the subdivisions are smaller, as quarter tones, it is called the enharmonic genus.

Gensamo, (jaun-za'no,) a town of Italy, in the Pontifical States, Is m. S E. of Rome, on the Appian Way. An annual festival held here, called the Inflorata di Genzamo, is attended by numerous visitors from Rome. Pop. abt. 4.709.

abt. 4.700.

abt. 4.700. \*\*\*Leave-u\*trical, a. [Fr. géocentrique, from Gr. gē, the earth, and \*\*kentron, a centre or sharp point.] (\*\*dstron.). An expression applied to the position of a planet as it would appear to an observer stationed at the centre of the earth. It is in opposition to the term \*\*delicorntric, which is used to denote a planet's position as it would be seen by an observer at the centre of the sun.

Geocen'srically, adv. In a geocentric manner.
Geocer'ellite, n. (Min.) An oxygenated hydro-carbon, obtained from the dark-brown coal of Gesterwitz.
It is white, brittle, soluble in hot alcohol, and melts at
14°. (bmp. Carbon 78°61, hydrogen 12°70, oxygen 8°69.
Geocer'ic Acid, n. The chemical name for Geocersi-

It is white, brittle, soluble in hot alcohol, and melts at 1440. Comp. Carbon 78-61, hydrogen 1270, oxygen 8-69. Geocer'ie Acid, n. The chemical name for Geocersicte, a. [Gr. ge, earth, and keros, wax—from its wax-like appearance.] (Min.) Another product of the dark-hrown coal of desterwitz. Comp. Carbon 79-96, hydrogen 13-13, oxygen 7-81.

Geocromite, n. [Gr. ge, earth, and kronos, Saturn, the alchemistic name for lead.] (Min.) A sulphuret of antimony and lead, from the silver mines of Sala in Sweden, also from Merida in Spain. Lustre, metallic. Color, light lead-gray to grayish-blue. Sp. gr. 6-4-6-0. Comp. Sulphur 16-5, antimony 167, lead 60-8.

Geocyc'lie, a. [Gr. ge, the earth, and kuklos, a circle.] Circling periodically about the earth; having the same centre with the carth.

Geoden, n. [Fr. geoder; Gr. geodes, from ge, gaia, the earth, and cidos, form or figure.] (Min.) Round hollow concretions of mineral matter. The interior, when empty, is generally lined with crystals of quartz, calcspar, &c., and when broken open present a beautiful appearance. Sometimes they contain a solid movable nucleus, or are filled with earthy matter. They are sometimes called potato-chones from their size and shape.

Geoden'lee, Geoden'leal, a. [Fr. géodesique. See Stran.] Pertaining to geodesy; geodetic.

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Geoden'lee, Geoden'leal, a. [Fr. géodesique. See Stran.] The pertaining to geodesy; geodetic.

Geoden'lee, Geoden'leal, a. [Fr. géodesique. See Stran.] The geodesics on a sphere are its great its extremities. From this definition it follows that a G. must, under ordinary circumstances, be the shortest line that can be drawn on the surface between any two of its points. The geodesics on a sphere are its great circles; the geodesics on a sphere are its g

eode'siam, n. One versed or skilled in geodesy. Geode'siam, n. One versed or skilled in geodesy. Geode'esy. Geoder'sia, n. [Gr. geodaria, from gaia, g', the earth, and daiein, to divide.] (Math.) That part of geometry which enables us, by measurement and direct observation, to determine approximately the shape or figure of the earth, and ascertain the area of its entire surface, or any part of it, as well as the variations in the force of gravitation at different parts of the earth. The figure of the earth was known to be nearly spherical some time prior to the Christian zera, and even in the present day we are taught to consider its form to be that of a regular oblate spheroid, or sphere flattened at the poles, which is a sufficiently close approximation to its actual shape for all general and practical purposes.

If the latitudes and longitudes of places on the earth's surface, deduced from geodetic measurements, coincided with those obtained from astronomical observations, the form of the earth would be that of a regular spheroid of rotation; but there is such a difference in the results obtained by the two methods, that no regular shape can be assigned to the earth by which these results can be reconciled. The measurements of arcs of the meridian that have been made during the 18th and 19th centuries, in various parts of the world, have, however, tended to show that the diameter of the earth from pole to pole is to its diameter at the equator as 299 to 300; but they have also served to prove that there is a dissimilarity of shape between the northern and southern hemispheres, and that the curvature of the earth's surface is different in meridianal arcs of either hemisphere that are at no great distance from each other; which shows different in meridianal arcs of either hemisphere that are at no great distance from each other; which shows that the earth cannot be a regular spheroid. The discrepancy in the shape of the hemispheres, and the irregularity of curvature in different parts of the same hemisphere, can only be accounted for by the supposition that the earth was once in a finid state, and that the irregularity in the cooling and consequent solidification of various parts had produced a corresponding irregularity of form in its surface, and a departure from the uniform spherical shape which it would have undoubtedly assumed, under the influence of centrifugal force, if the whole mass had been homogeneous, and the conditions under which it had cooled had been the same at all parts of its surface. The following is a brief notice of some of of its surface. The following is a brief notice of some of the more important attempts that have been made to obtain accurate measurements of arcs of the meridian at different parts of the earth's surface, with some account of the methods by which trigonometrical surveys count of the methods by which trigonometrical surveys are made for this purpose, and for determining the area and obtaining correct delineations of large tracts of country. Eratosthenes was the first who attempted to determine the length of a geographical degree, about 250 s. c. A degree was also measured in the plains of Mesopotannia, rather more than a thousand years after, by order of the caliph Al Mamoum; and in 1617, Willebrod Snell measured adegree of the meridian at Leyden, and estimated it at about 6675 English miles. There were, however, some errors in Snell's calculations, which had detected himself, but which he was prevented he had detected himself, but which he was prevented from correcting by his death in 1626. In 1633, Norwood measured the meridian from London to York, and obtained a tolerably accurate value of the degree. In 1671, Picard and La Hire effected the measurement of the meridian between Amiens and Paris, and obtained a result of 60-1 English miles as the length of a degree. This was followed, in the commencement of the 18th programment of the 18th programment of the 18th programment of the 18th programment of the progra century, by the extension of the measurement of the meridian begun by Picard, to Dunkirk towards the N., and Collioure, in the Pyrences, towards the S., when James Cassini, under whose direction the operation was completed, found the length of a degree between Paris and Dunkirk to be rather less than the result which was obtained by Picard, and also less than the length of a obtained by Picard, and also less than the length of a degree between Paris and Collioure, which gave riso to an idea that the length of a degree of the meridian must grow less in proportion to its distance from the equator, instead of greater, as it must do of necessity, if the form of the earth be that of an oblate spheroid. This caused Cassini and others to conjecture that the earth must be in the form of a prolate spheroid; but this idea was shown to be erroncous by the measurement of an arc in 1738, in Lapland, to the N. of the Gulf Ruthnia from which it anyward that there was an ment of an art in 1730, in Lapland, to the No. in the out of Bothnia, from which it appeared that there was an increase, instead of a decrease, in the length of a degree of the meridian in proportion to its distance from the equator, although it was discovered that their computation erred in excess when a re-measurement of the arc was made by Svanberg in 1802. While Maupertuls was was made by Svanberg in 1802. While Maupertals was measuring an arc of the meridian in Lapland, Bonguer and La Condamine, assisted by some Spanish officers, were performing the same operation near Quito in Peru, an iron toise being used as the standard of measurement, which has since been adopted as the standard for the expression of the length of the greater number of the degrees that have been measured on the continent of Europe, all of them, indeed, having been ultimately referred to this as the unit of measurement. In the measurement of the arc effected in Peru, the length of a degree was found to be about 68-72 English miles by the French mathematicians, and rather more by the a degree was found to be about 08.72 English miles by the French mathematicians, and rather more by the Spaniards. The results, however, of the two measurements effected simultaneously in Peru and Lapland went far to prove that the form of the earth was that of an oblate spheroid. In 1752, Lacaille measured an arc of the meridian at the Cape of Good Hope, from which operation he obtained a result nearly equal to the length of the degree measured by Picard between Paris and Amiens, although the scene of his labors was about 30° 8. of the equator, while that part of France selected by Picard is 50° to the N. of it; and according to the received theory of the oblate-spheroidal form of the earth, the length of the degree measured at the Cape ought to have been less than that which was assigned to it by Lacaille. The discrepancy has, however, been accounted for and explained by Macleur, who has lately remeasured Lacaille's arc. In 1791, the arc of the meridian of Paris was remeasured from Dunkirk to Barcelona, by order of the French Convention, to establish the length meridian at the Cape of Good Hope, from which operation he obtained a result nearly equal to the length of the degree measured by Picard between Paris and Amiens, although the scene of his labors was about 30° so of the equator, while that part of France selected by Picard is 50° to the N. of it; and according to the received theory of the oblate-spheroidal form of the earth, the length of the degree measured at the Cape ought to have been less than that which was assigned to it by Lacaille. The discrepancy has, however, been accounted for and explained by Macleur, who has lately remeasured Lacaille's arc. In 1791, the arc of the meridian of Paris was remeasured from Dunkirk to Barcelona, by order of the French Convention, to establish the length of the mêtre, the new French standard of measurement, which was to be the ten-millionth part of a quadrant of the meridian. This was carried out with great care by Delambre and Mechain; but an error has since been discovered in the work which affects the length of the measured are to the extent of nearly sixty-eight toises, and makes the mètre to be shorter than it should be by

a very small and trifling fraction of its present length. The French mêtre has been used in the measurements of the U. S. Coast Survey, the latest example, we believe, and certainly the most perfect, of large geodesical

operations.

codet'ic, Geodet'ical, a. Pertaining to geodesy

operations.
Geodet'ic, Geodet'ical, a. Pertaining to geodesy or the admeasurements therein.
Geodet'ically, adv. In a geodetic manner.
Geodet'ically, adv. In a geodetic manner.
Geodet'ica, n. ring. Same as Grodest, q.v.
Geodif'erous, a. [grode, q.v., and Lat. ferre, to bear.] Producing geodes.
Geod'frey of Monmouth, the English author of a famous chronicle or history of the first British kings, often quoted by men of letters, and remarkable for its curious legends. Geoffrey was successively archdeacon of Monmouth, bishop of 8t. Asaph, and abbot of Abingdon, where he died, 1154.
Geof'frim, Madame, a Parisian lady celebrated for her wit and beauty, who lived in the eighteenth cent., and by the grace and vivacity of her manners, aided by a refined and cultivated taste, drew around her all the fashion, wit, and learning of Europe. Early left a widow, with an opulent fortune, her charities to the poor, and her benevolent aids to literature, endeared her as much to society, as her wit and virtue delighted. D. 1777.
Geoffroy Saint-Hilaire, Etienne, a distinguished

Seoffroy Saint-Hilaire, ETIENNE, a distinguished zodiogist and comparative anatomist, sprung from a family well-known in science, was E. at Etâmpes, 1772. He was originally destined for the Church, but he preferred dedicating himself to science, a tante for which he had imbibed from the instructions of Brisson, at the college of Navarre, and in the company of Hally, his colleague, at the college of Cardinal Lemoine. During the massacres of Soptember, 1792, he saved, at the risk of his life, several priests, among others Haity, who had been imprisoned for recusancy. This act of devotion so endeared him to his teachers, especially Daubenton, that he was, through their instrumentality, in 1783, appointed to an office in the Jardin des Plantes, where he founded the vast zodiogical collections, which are one of the glories of Paris. In 1798 he accompanied the great scientific expedition to Egypt, explored all the offroy Saint-Hilaire, ETIENNE, a distinguished



Fig. 1140. - GEOFFROY ST. HILAIRE.

Fig. 1140.—OROFFROY ST. HILAIRE.

conquered countries, and was one of the founders and most active members of the Institute, of which he afterwards became professor. In 1808 he went on a scientific mission to Portugal; in 1815 he was a member of the Chamber during the Hundred Days; but on the return of the Bourbons he retired from political life, and thenceforward devoted himself solely to study. The great merit of Geoffroy Saint-Illiaire as a naturalist consists in his discovery of the law of unity that pervades the organic composition of animal bodies—a theory glanced at by Buffon and Geethe; and in his having founded the theory of Analogues, or the method by which the identity of organic materials is determined in the midst of all their transformations. With him, too, originated the doctrine of development. His chief works are Philosophic Analomique, Principles de la Philosophic Zöllogique, Etudes Progressives, &c. Died 1844. His Life, Works, and Theories has since been published by his son, the subject of the following notice.

[Seoffroy Saint-Hilaire, ISIDORE, a distinguished French zöllogist, son of the preceding, was B. at Paris, in 1905. He was appointed, at the age of ulusteen, assistant naturalist to his father, and five years later graduated M. D. In 1830 he commenced his career as lecturer by a course on ornithology; taught, for several years zolilogy at the Royal Athenseum and was re-

tongue.] (Bot.) The Earth-tongue, a genus of Fungales, growing on earth, and found in bogs and meadows. Geogramust, n. [Fr. géognoste, from Gr. geognates, from gea, earth, and pignastein, to know.] A geologist; oue conversant with the phenomena presented in the science of realests.

ence of geology.

Geogmos'tic, Geogmos'tical, a. Belonging or relating to a knowledge of the structure of the earth

geological.

jeogramosy, n. [Fr. géognosie, from Gr. gea, earth, and gnosis, knowledge, from gignoskein, to know; Lat. noscere.] A term sometimes still used as a synonym of geology, or more properly, of geology as restricted to the observed facts, spart from reasonings or theories built apon them

Geogon'ic, Geogon'ical, a. Of, or pertaining to

geogony.

Geogrony, n. [Fr. géogonie, from Gr. gea, earth, and gone, generative, from genein, to be born, to come into being.] The doctrine, or theory of the generation or formation of the earth.

Geographer, (jé og ra-fér.) n. [Fr. géographe, from Gr. gea, earth, and graphein, to describe.] One who is versed in geography; one who compiles a treatise on the control of the control the subject

the subject.

Geograph'ic, Geograph'ical, a. [Fr. glographique; L. L. geographicue; Gr. geographikos. See above.]

Relating to, or containing, a description of the terraqueous globe.

Geograph'ically, adv. In a geographical manner.

Geograph'g, n. [Fr. glographie, from Gr. geographie, from gr, earth, and graphen, to describe.] That science by means of which we obtain a knowledge of this earth. rom ge, earth, and graphen, to describe.] That science by means of which we obtain a knowledge of this earth, both as it is in itself and as it is connected with a system of other similar bodies. It comprises a knowledge of its figure and dimensions: of the natural features, divisions, and productions of its surface: of the position of the various places upon it; and of its various inhabitants. It is usually arranged under three principal branches,—Mathematical, Physical, and Political. Mathematical Geography deals with the earth principally in its planetary relations as a member of the solar system,—a great part of this being common to it with astronomy; and hence it is sometimes termed astronomical geography. It treats of the faure, magnitude, density, and motion of the earth; of the movements of the other heavenly bodies which exert an influence upon it; the relative positions and distances of the various places upon its surface; and the representation of the whole or portions of its surface; upon globes or maps. By mathematical geography, we ascertain that the earth is spherical in form, or rather what is called an oblate spheroid, being a little flatter at the poles than at any other part matical geography, we ascertain that the earth is spherical in form, or rather what is called an oblate spheroid, being a little flatter at the poles than at any other part of its circumference; that its mean diameter is 7,913 English miles, the equatorial exceeding the polar by 20 miles; that its orbit around the sun is slightly elliptical, while its mean distance from that luminary is about 95,000,000 of miles; that it performs its revolutions in 365 days, 5 hours, 48 minutes, 50 seconds, the mean rate at which it travels being about 68,000 miles an hour; that the earth has also a motion around its own axis, which it completes every twenty-four hours, and that it revolves around the sun with its axis constantly inclined to the plane of its orbit at an angle of 669 32. To the former of these motions we are indebted for day and night: to the latter, for the vicinsitudes of the seasons. In order to determine the relative positions of different places upon the earth's surface, geographers have supposed certain lines or circles traced upon it. One of these, the equator, being equally distant from both poles or points of rotation, divides the earth into two hemispheres,—the northern and southern. Another encircling line, drawn at right angles to the equator, and passing through the poles, divides it into the eastern and western homispheres. Parallel to the equator, and passing through the poles, divides it into the eastern and western homispheres. Parallel to the equator, and passing through the poles, divides it into the eastern and western homispheres. Parallel to the equator, and passing through that place to the poles at right angles to the equator. All places lying in the same latitude, of which there are ninety in the northern, and as many in the southern hemisphere. The equator is divided into 300 equal parts, and lines drawn perpendicularly from the points of division to the poles constitute the lines or degrees of longitude. The passing through that place lying in the same latitude have equal length of day being a little flatter at the poles than at any other part of its circumference; that its mean diameter is 7,913

at different times of the year to all that portion of the earth's surface lying between 25° 28' N. and 23° 28' S. of the equator; and this region being subject to the greatest amount of heat, is called the Torrid Zone, and is bounded amount of heat, is called the Torrid Zone, and is bounded on the north by a circle termed the Tropic of Caprizorn. The sun is on the parallel of 239 28', on the 21st of June, and on the parallel of 239 28', on the 21st of June, and on the parallel of 239 28'. On the 21st of December,—termed respectively the summer and winter solutice. From this inclination of the earth's axis it also follows that the whole region within 230' 28' of either pole, or, in other words, above 660' 22' of N. or S. latitude, is for a certain period of the year involved in ordination of the parallel of the year involved in ordination of the parallel of the year involved in ordination of the year involved in ordination of the year involved in ordination of the year involved in the year involved in the year involved in the year involved in year the year of the year involved in year of year of

the middle of the 2d cent, of our zera. His work on Gin 8 books, which continued to be regarded as the most perfect system of the science through the dark and middle ages down to the 16th cent., gives a tolerably correct account of the well-known countries of the world, and of the Mediterranean, Euxine, and Caspian seas, but it added little to the knowledge of the N. of Europe, or the extreme boundaries of Asia or Africa. Yet, from his time till the 14th century, when the records of the travels of the Venetian, Marco Polo, opened new fields of inquiry, the statements of Ptolemy were never questioned; and even during the 16th century, it was only among a few German scholars at Nürnberg that the strange accounts given of distant eastern lands by the Venetian traveller were received as trustworthy where of inquiry, the statements of Ptolemy were never questioned; and even during the 16th century, it was only among a few German scholars at Nürnberg that the strange accounts given of distant eastern lands by the Venetian traveller were received as trustworthy where he differed from Ptolemy. The momentous discovery of America by Columbus (1492), which had been preceded in 1486 by the exploration of the African coast as far as the Cape of Good Hope (which was doubled by Vasco de Gama in 1497), was followed by a rapid succession of discoveries; and within 30 years of the date of the first voyage of Columbus, the whole coast of America from Greenland to Cape Horn had been explored, the Pacific Ocean had been navigated, and the world circumnavigated, by Magellan; the coasts of £ Africa, Arabia, Persia, and India had been visited by the Portuguese, and numerous islands in the Indian Ocean discovered. The 16th cent. was marked by continued attempts, successful and unsuccessful, to extend the sphere of oceanic discovery; and the desire to reach India by a shorter route than those by the Cape of Good Hope or Cape Horn, led to many attempts to discover a N.W. passage, which, though they signally failed in their object, had the effect of very materially colarging our knowledge of the Arctic regions. The expeditions of Willoughby and Frobisher, in 1553 and 1576, of Davis (1585), Hudson (1607), and Baffin (1616), were the most important in their results towards this end. The 17th and 18th centuries gave a new turn to the study of G, by bringing other sciences to bear upon it, which, in their turn, derived elucidation from the extension of geographical knowledge; and it is to the aid derived from history, astronomy, and the physical and natural sciences, that wo we he completeness which has characterized modern works on G. In the 17th cent, the Dutch, under Tasman and Van Diemen, made the Australisain islands known to the civilized world; and in the latter half of the Bathe can be present oceanic explorations by the discovery

regard to distant regions, and thus effectually dispelling the numerous fallacies which have hitherto obscured the science of geography.

Geofre, (St.,) (shedw.) a town of France, dep. Lere, 19 m. N.N.W. of Grenoble; pop. 4.895.

Geol'oger, Geologiam, n. One versed in the phenomens of geology.

Geologic, Geologieal, a. [Fr. géologias.] Pertaining to the science of the structure of the earth. Geologiasly, adv. In a geological manner.

Geol'ogist, n. One versed in the science of geology.

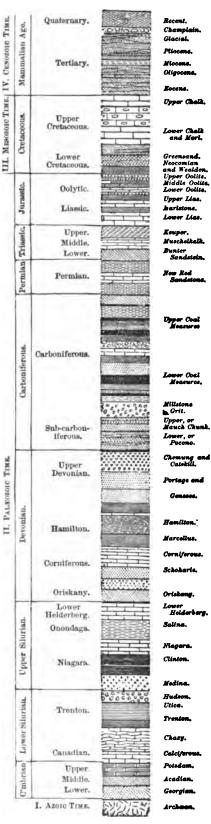
Geol'ogist, n. To make investigations in geology.

Geol'ogy, n. [Fr. géologie; Gr. geologia, from ges, gē, the earth, and logos, a discourse.] The science which treats of the structure and history of the earth. It considers the nature, the various conditions and order of arrangement of the rocks and their contents; the changes that have taken place in the materials of the earth's crust, and the causes that induced them; and describes the progress of life upon its surface, or the nature and order of introduction of its vegetable and animal tribes. In the examination and description of

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the 5 recture of the earth, application must be made of a knowledge of all the physical sciences; and the fact that G. thus rests upon the natural sciences secounts for its modern origin. Until some considerable progress had been made in these sciences, the geologist would lack the means necessary for his investigations. When the chemist was able to explain the true nature of the mineral substances of which the rocks are composed; when the geographer and meteorologist had explored the surface of the earth and learned the extent and the form of land and water, and the powers of winds, currents, rains, glaciers, earthquakes, and volcances; and when the naturalist had classified, named, and accurately described, the greater part of existing animals and plants, and explained their physiological and anatomical structure, and the laws of their distribution:—then only could the geologist, with any chance of arriving at sure and definite results, commence his researches into the structure and composition of rocks, and the causes that produce them, or utilize his discoveries of the remains of animals and plants that are enclosed in them. Then only could he discriminate with certainty between igneous and aqueous rocks, or between the remains of living or extinct species of animals and plants; and until then would he be unable to lay down any of the foundations upon which the science of G. was to rest. G. was formerly looked upon in the light of a geographical mineralogy; and even yet is regarded to be more or less under this aspect by many. No one indeed could have anticipated, from the mere study of masses of stone and rock,—where, to a partial and local view, all seems confusion and irregularity,—the wonderful order and harmony that arise from more extended observation, and the almost romantic and seemingly fabulous history which becomes at length unfolded to our perusal. To understand the recordson which this history is founded, and to understand their meaning aright, frequent, long-continued, and wide-spread observat notes all those facts which may enable him or others to understand and explain how that structure has been produced, he then becomes a geological. It is one of the most remarkable results of geological science, that an equaintance with organic, and especially animal forms, is at least as necessary for a geologist, as a knowledge of minerals; and that a correct knowledge of organic remains (portions of fossil plants and animals) is a more certain and unerring guide in unravelling the structure of complicated districts than the most wide and general acquaintance with inorganic substances. The cause of this necessity may be stated as follows: When we some to examine the crust of the globe, we find that its consists of a regular series of earthy deposits (all called by geologists rocks), formed one after another during successive periods of time, each of great but unknown duration. The animals and plants living at one periods of the earth's history were different from those living now, and different from those living at other periods. There has been a continuous succession of different races of living beings on the earth, following each other in a regular and ascertained, it is obvious that we can at once assign to its proper place of production, and therefore to the recover lives in the series of rocks any. order has been ascertained, it is obvious that we can at once assign to its proper place of production, and therefore to its proper place in the series of rocks, any portion of earthy matter we may meet with, containing any one, or even any recognizable fragment of one of these once living beings. When we find a known fossil is any piece of rock, we are sure that that rock must have been formed during the period when the animal or plant of which that fossil is the remains was living on the globe, and could not have been formed either before that saccing course into a wistence or affer it become plant of which that loss is the remains was living on the globe, and could not have been formed either before that species came into existence or after it became extinct. In cases, therefore, where the original order of the rocks has been confused by the action of disturbing forces, or where the rocks themselves are only at rare and wide intervals exposed to view, their order of deposition and consequent succession of places may be more easily and certainly ascertained by the examination and determination of their fossil contents, than by any other method. Descriptive G. considers the facts and appearances as presented in the rocky crust of the earth: Theoretical G. attempts to account for the phenomena, and arrange them into a connected world's history; and Practical G., guided in its researches by the other two, treats of the mineral products of the globe, the methods of obtaining them, and their application to industrial or economic purposes. G. may also be conveniently studied under the three sub-sciences—Physical Geography, which treats of the surface configbe conveniently studied under the three sub-sciences— Physical Geography, which treats of the surface config-tration of the globe, as depending on geological influ-ences; Mineralogy, which restricts itself more partic-uarty to a consideration of the mineral substances which compose the crust of the earth; and Pulzon-tology, which considers exclusively the fossil remains found in the rocky strats. In G., the history of the

earth is divided, for convenient reference and study, into periods named from the prevailing types of animals or



are partly of igneous origin, that is, were once in a state of fusion; but above these lie thick beds of irregular stratified rocks, known as the Laurentian, the Huronian, &c., and composed of gneisses and schists made of disintegrated granite materials, limestones, iron ore, graphite, &c. These, with the later rocks, were of aqueous origin, or deposited in layers or strata by the action of water. II. The Paleosoic age (Gr. palaios, ancient, and zōon), or age of ancient life. This is subdivided into: 1. The Cambricas. 2. The Silariers. 3. The Desonicas. 4. The age of coal plants, or the Carbonifeross. III. The Mesocoic age (Gr. mesos, middle, and sōon), or the age of reptiles. IV. The Cenacoic age (Gr. kaisos, recent, and sōon), or the age of mammals. V. The age of man. Each of those ages is described under its proper head. The subdivisions under the ages, the periods and epochs, vary in different countries. The accompanying table presents a general view of those of eastern North America, so far as the Paleozoic is concerned—the Silurian, Devonian, and Carboniferous being well represented on the N. American contrient. The rest of the saries is from Eurorean contrient. countries. The accompanying table presents a general view of those of eastern North America, so far as the Palseozoic is concerned—the Silurian, Devonian, and Carboniferous being well represented on the N. American continent. The rest of the series is from European geology, in which the later ages are far better represented than in America. The names of the epochs for the Palseozoic of America are the same as have been applied to the rocks by the New York geologists.—Hist. A rational history of the world may be said to have originated with Aristotle, who carefully observed the changes going on upon the earth, and referred various phenomena to similar causes of change. After Aristotle, Strabo speculated with singular judgment and profoundness on the causes suggested to explain the frequent occurrence of marine shells where the sea has never been known to reach in modern times. From the time of Strabo down through the sariier centuries of the Christian era there is no proof of research in this department, and it was not until the beginning of the 16th century that geological phenomena again began to attract attention. The origin of fossils was the first subject of inquiry, and the north of Italy the place of discussion. To Fransstoro, in 1520, is due the credit of having clearly put forward the only rational explanation. It was long, however, before this was admitted, and another century elapsed, during which the subject was still under discussion. Even so late as 1670 it was necessary seriously to controvert the notion that fossils were due to accidental causes, or, in other words, were lusse activate, "tricks of nature." During the whole of the 18th century, the progress of geology proper was irregular. Already, before the commencement of that period, Lister had intimated that many fossils belonged to extinct species, and Leibnitz had theorized on the result of repeated invasions of the sea. It was not till 1760 that any more rational views than those of the physicatheologists were advanced; but from that time Hamilton.

Hamilton.

Hamilton.

Harcellus.

Corniferous.

Corniferous. prophet.] A fortune-teller; a caster of figures; one who pretends to foretell futurity by other means than those

used by the astrologer.

Ge'omancy. n. [Fr. geomance, geomancie, from Gr. gē, earth, and manteia, divination.] A kind of divination by means of figures or lines made on the ground, and

by heans of nightes or their made on the ground, and afterwards transferred to paper.

Geoman'tic, Geoman'tical, a. [Fr. géomantique.]
Of, or pertaining to, geomancy.

Geom'eter, n. [Fr. gemêtre; Gr. gê, the earth, and metrein, to measure.] One skilled in geometry; a geome-

Geomet'rical, Geomet'rical, a. [Fr. giometrique; Gr. geometrikos.] According to the rules or principles of geometry; done or solved by geometry; disposed according to geometry.

Geomet'rical Propor'tion. See RATIO.

Geomet'rically, aac. According to the rules or laws

of geometry.

Geometrician, n. One skilled in geometry.

Geometridge, n. pl. (Zoöl.) See PHALENDE.

Geom'etrize, v. n. To proceed according to the principles of geometry.

Geometr'idea, n. pl. (2021). See Pralamina.
Geom'etr'idea, n. pl. (2021). See Pralamina.
Geom'etr'idea, n. pl. (2021). See Pralamina.
Geom'etr'idea, n. pr. géometrie; Gr. geometria, from gi,
earth, and metrom, measure.] G. may be strictly defined
to be the doctrine of the extension of such things as
lines, surfaces, and solids. The attributes or properties
of bodies may, in order to be more readily explained, be
resolved into two classes, one comprising the general
characteristics of all, and the other such only as are included in particular or peculiar bodies. Extension, figure, magnitude, mobility, divisibility, impenetrability,
weight, and inertia, may be mentioned as some of the
properties which belong to the first class; while some
of those in the second are solidity, liquidity, transparency, and such like. Of all these properties mentioned,
only extension, magnitude, figure, and divisibility come
under the special branch of science denominated Geometry; the different properties which remain coming under the head of Natural Philosophy, or Physics. The
important science of G. was first cultivated in Egypt,
according to the testimony of Herodotus, which historian
dates its origin from the following circumstance: Sesortis, the king of Egypt, shared the lands at Thebes and
Memphis between his subjects, and each portion was
marked out by different landmarks; but, owing to the
inundations of the Nile, these boundaries were frequently destroyed, and it became necessary, as often as
this was done, to restore them by measurement; hence
a system was invented, which was termed G. Thales, a
philosopher who lived some 640 years before Christ,
brought the science into Greece from Egypt, whither he
had, it is related, gone in search of knowledge at rather
a late period in life. He is said to have applied a circle
to the measurement of angles, and to have instituted
various comparisons and relatious between triangles, by
means of their proportions; one particular point he discovered, too, that all angles i after the time of Plato, Euclid collected the propositions which had been discovered by his predecessors, and formed of them his famous Elements; a work which is still regarded by many as the best introduction to the mathematical sciences. It consists of 15 books, of which 13 are known to have been written by Euclid; but the 14th and 15th are supposed to have been added by Hypsicles of Alexandria. Apollonius of Perga, about 250 years B. C., composed a treatise on the conic sections, in 8 books; and he is said to have been the first who applied to those curves the appellations by which sections, in 8 books; and he is said to have been the first who applied to those curves the appellations by which they have ever since been distinguished, namely: the parabola, the ellipse, and the hyperbola. (See CONIC SECTIONS.) About the same time flourished Archimedes, the most illustrious of the ancient philosophers. He distinguished himself in G. by the discovery of the beautiful relations between the sphere and cylinder, by his work on consider and spheroids, by his discovery of the exact quadrature of the parabola, and of the approximate rectification of the circle. In the list of names which have come down to our times in connection with mate rectification of the circle. In the list of names which have come down to our times in connection with G., we may mention Eudoxus, Archytas, Eratosthenes, Aristarchus, Dinostratus, and Nicomedes; but for an account of the discoveries or inventions by which they are individually celebrated, we must refer to Montucla's Histoire des Mathématiques. The school of Alexandria produced l'appus and Diophantus; but the Greek G, though it was afterwards enriched by many new theorems, may be said to have reached its limits in the hands of Archimedea and Apollonius; and a long interval of 17 centuries elapsed before this limit was passed. In 1637 Descartes published his Geometry; a work which

will ever be remarkable, as containing the first systematic application of Algebra to the solution of geometrical propositions. Soon after this followed the discovery of the Infinitesimal Calculus; and from that time to the present G. has shared in the general progress of all the mathematical sciences. Besides Mentucla's work, Chasles' Aperyu Historique (Brussels, 1837) may be consulted with advantage with respect to the origin and development of geometrical methods. Of the works on Ancient Geometry, the Including may be mentioned. Recomment of geometrical methods. Of the works on Ancient Geometry, the kilowing may be mentioned: Euclid, Elements of Geometry, and Book of Data; Apollonius, Conica; Archimedes, Opera; Pappus, Mathematica Collectiones; Vieta, Opera Mathematica; Huygeus, Opera; R. Simson, Opera Reliqua and Loci Plani; Stewart, Propositiones Geometrica; T. Simpson, Elements of Geometry, Lawyouther Elements of Geometry, Lawyouther Elements of Geometry; Legiudre, Elements of Geometry; Leslie, Elements of Geometry, &c. For an account of the nu-merous editions of Euclid's Elements (which have been merous editions of Euclid's Elements (which have been translated into every European language), see Murhard, Bibliotheca Mathematica; but to the list contained in that work should be added the more recent edition of Peyrard, in Greek, Latin, and French (Paris, 1814). An edition of the first 6 books, in Greek and Latin, by Camerer and Hauber (Berlin, 1824), also deserves to be noticed, on account of the valuable notes with which it is accompanied. The modern works on Algebraic or Coordinate G. are very numerous; we can only mention those of Pitcker, Analyt. Geom., 1835 and 1852, Theorie der Algebraischen Curven, 1839, and Mobius' Barycentrische Culcul., 1857, as having marked an epoch in the history Culcul., 1827, as having marked an epoch in the history of the science; and Salmon's Conic Sections, 1863, Higher Plane Curres, 1852, and Anal. Geom. of Three Dimen Plane Curres, 1852, and Anal. Geom. of Three Dimen-sions, 1862, as treating the subject from the most mod-ern point of view. The modern works on pure, as dis-tinguished from coördinate G., are less numerous. The most important and useful are, Poncelet's Traité des Propriétés Projections des Figures, Paris, 1822, Steinert's Systematische Entwicklung der Abhängigkeit Geome-trischer Gestalten, Berlin, 1832, and his Geometrischen Constructionen, 1833; Chasles Caurs de Gométrie Supé-ricure, Paris, 1847, and his Traité des Sections Coniques, 1861: an elementary treatise on Curres. Functions, and

contractions, 1835, and his Trailé des Sections Uniques, 1864; an elementary treatise on Curres, Functions, and Furces, by Benjamin Pierce (Boston, 1885); Differential and Integral Culculus, by Charles Davies (New York, 1855); and Mulcahy's Modern Geometry, 1864.

Geomy r'ieite, n. (Min.) A wax-like substance, obtained also from the dark-brown coal of Gesterwitz. It is obtained from a solution. Color, white; after fusion it has the aspect of yellowish brittle wax. Comp. Similar to that of Chinese wax and palm-wax—Carbon 8059, hydrogen 13-42, oxygen 5-99. Supposed to be the product of fossil wax-bearing trees.

Geophiagism, [co-gi'd-girm, n. [Gr. gea, earth, and phagrin, to eat.] A morbid or depraved appetite for eating dirt, clay, chalk, or the like.

Geoph'agist, n. [See above.] One afflicted with a diseased appetite for eating dirt, chalk, &c.

Geopm'c, Geopon'leal, a. [Gr. geoponikos, from gê, earth, and ponos, labor, toil.] Pertaining to the labor of the husbandman in tilling the earth; relating to agriculture.

riculture.

Geopon'ics, n. sing. The art of cultivating the earth Geora'ma, n. [Gr. gē, earth, and horama, a view, from horaein, horan, to view.] A large hollow globe having the features of the earth delineated on the concave sur-

nace.

Georetin'ic Acid, n. (Min.) A substance called also Brucknerdlite, obtained from the yellowish-brown coal of Gesterwitz. Crystallizes in white needles from an alcoholic solution. Comp. Carbon 6261, hydrogen

coal of Gesterwitz. Crystallizes in white needles from an alcoholic solution. Comp. Carbon 6261, hydrogen 956, oxygen 27:83.

George I., (Louis,) King of England, of the House of Hanover, B. at Osnabruck in 1660. Son of Ernest I., first Elector of Hanover, and of the princes Sophia, (p. 2315), grand-daughter of James I., King of England, and succeeded his father in the electorate, in 1698. On the death of Queen Anne, in 1714, he was called to the throne of England, as the nearest heir in the Protestant line, and this was the beginning of the English dynasty of Brunswick. In the internal politics of the country he gave his support to the Whigs, and was prudently neutral as regarded the continental wars of his time, yet he joined the Triple Alliance of 1717, and the Quadruple Alliance of 1718 against Spain. He had as premier, Sir Robert Walpole, whose genius repressed all attempts at disorder, and nullified the efforts of the so-called Pretender, James III. Unfortunate in his family relations, G. was obliged to divorce his wife Sophia of Zell, charged with an intrigue, and imprison her in the castle of Ahlen, where she ended her days in 1726, after a confinement of 32 years. D. 1727.

Brosoz II., (Augustus, 1900) of the preceding, B. in 1683, succeeded his father in 1727. He retained as his prime minister the celebrated Sir Robert Walpole, who preserved the country from war during the first twelve years of his reign. After the dismissal of Sir Robert, he undertook some expeditions which resulted disastrously. In the war of the Austrian Succession he declared him-

years of his reign. After the dismissal of Sir Robert, he undertook some expeditions which resulted disastrously. In the war of the Austrian Succession he declared himself on the side of the Empress Maria Theresa, and against France. His armies, successful at Dettingen (1743), failed signally at Fontenoy (1745), and at Laffeld (1747), but the campaign was closed by the treaty of Aix-la-Chapelle, (1748.) Meantime, however, his throne had been strengthened by the victory of Culloden, gained over Prince Charless Edward Stuart and his adherents in 1746. War having, in 1755, again broken out upon the continent of Europe. England experienced out upon the continent of Europe, England experienced fresh reverses in Germany, and lost her Hanoverian dominions, but these losses were more than compensated by brilliant and valuable conquests in the East Indies, and in America. G was the founder of the British Museum. D. 1760.

seum. D. 1760.

32002 III., B. 1738. He was the son of Frederick Louis, Prince of Wales, and succeeded his grandfather George II. in 1760. In the early part of his reign he gained brilliant succeeses over France and Austria, in the Seven Year? War, and in 1763 concluded an advantageous peace, which bowever did not fully satisfy the country. In 1764 George Grenville succeeded to Lord Bute as premier, and began those measures in relation to the American colonies, the consequences of which proved so momentous; and the American Stamp Act was passed the following year. The aspect of affairs grew more serious every day, and public discontent was at its height, when, at the close of the year 1769, Junius published his famous letter to the king. At the beginning of 1770 the popular clamor kept pace with ministerial folly; blood had been already spilled in America; and the city of London delivered a bold and spirited address and remonstrance to the king, which the king replied to in city of London delivered a bold and spirited address and remonstrance to the king, which the king replied to in terms expressive of his displeasure. After a long and fruitless war, the independence of the United State was acknowledged. In 1782, Lord Shelburne was placed at the head of the state, with Mr. Pitt, son of the Earl of Chatham, as Chancellor of the Exchequer. In 1783, the memorable coalition ministry between Mr. Fox and Lord North was formed. To this the king was decidedly hostile; and as soon as Mr. Fox's India bill had been rected by the Lords he sent a message to him and Lord lord. hostile; and as soon as Mr. Fox's India bill had been rejected by the Lords, he sent a message to him and Lord North, commanding them immediately to return him their seals of office, by a messenger, as a personal interview with them would be disagreeable to him. On the following day Mr. Pitt became prime minister; and the firmness which the king had displayed in the affair, and the intreplicity with which he opposed the coalition, gained him considerable popularity. In 1789 the king was afflicted with mental aberration, which lasted from the beginning of Nov. till the following Feb. A war which revolutionized France now appeared inevitable; and the views of his ministers met with the king's full concurrence. In 1798, public distress appeared to have reached its climax, and the Irish rebellion broke out. In 1800 the Act of Union between Great Britain and concurrence. In 1700, public distress appeared to nave reached its climax, and the Irish rebellion broke out. In 1800 the Act of Union between Great Britain and Ireland was passed; and in order to bring those over who opposed the measure, the ministers allowed a tacit understanding to prevail, that it would be followed by certain political concessions. G., however, could never be persuaded that he could admit the Catholics to political power, without violating the spirit of his corrosation oath,—the consequence of which was, the retirement from office of Mr. Pitt and his colleagues in 1801, and the formation of a new ministry headed by Mr. Addington. Negotiations were now speedily entered into, which led to the treaty of Amieus. The king, however, consented to it with great reluctance. It was, in fact, very unpopular; and when the resumption of hostillities took place in 1803 there was an evident demonstration of public satisfaction throughout all ranks. The Addington administration proved incompetent to their task, and Mr. Pitt, in 1804, again took the helm of state; but he died in 1806, and the Grenville party, which Fox had joined, went into office. In 1207, Lord Grenville and his colleagues attempted to change the king's opinions with regard to Catholic Emancipation; but G. was inflexible, which led to the ejection of the Fox and Grenville party, and the Perceval administration succeeded them. The death of his youngest and darling child, the Princess Amelia, which happened towards the close of 1810, gave the king a shock from which he never reovered. The insanity, which already more than once had visited him, returned, and assumed so violent a character that but slight hupes were entertained of his recovery. The remaining years of the king's life are little more than a blank in blography, for his luck intervals were "short. and far between;" but it is said that in 1814, when the allied sovereigns visited England, he evinced indications of returning reason, and even expressed a wish to see the royal visitors that in 1814, when the allied sovereigns visited England, he evinced indications of returning reason, and even expressed a wish to see the royal visitors—a wish which it was not deemed proper to indulge. At length deafness was added to his other calamities, and his manner and appearance are described as pitiable in the extreme. On the 17th of Nov., 1818, the queen died; but the king never became acquainted with her death, or with the subsequent appointment of the Duke of York to the office of custos of his person; on the 29th of Jan, 1820, he breathed his last, in the 82d year of his age, and the 60th of his reign. The political character of George III. may be deduced from the course of policy pursued during his long and eventful reign, for no limited monarch ever had a more decided influence on public affairs. He lived in perilous times, when thrones and States tottered around him; but he was firm and consistent; and rather lived in perilous times, when thrones and States tottered around him; but he was firm and consistent; and rather than give up any opinion he had conscientiously formed, or deviate from what appeared to him to be the strict line of duty, he would have descended from the throne, though it were to mount the scaffold. If his obstinacy were censurable on some occasions, his unflinching firmness, even in the face of danger, was admirable on others. He was religious, temperate, and sincere, and in all his tastes and amusements so plain and practical, that he may be said to have approached to almost patrarchal simplicity. He was particularly fond of music, and afforded encouragement to its professors. He also sided the cause of science by the encouragement he gave to the cause of science by the encouragement he gave to Cook, Byron, and Wallis, the navigators, and to Herschel and other men eminent for their professional attainments. ments. George IV., B. 1762, had been virtual sovereign during the

long period of his father's last insanity as Prince Regent, when he succeeded to the crown, 1820. Although he had at first declared for the Whige, he for a long time

gave himself up to Tory influence, and had as his prime-ministers Lord Liverpool and the Duke of Wellington. During his regency occurred the final overthrow of Napoleon and the carcere duro of the fallen hero who had confided himself to the hospitality of England. He caused the passage of numerous laws against the liberty of the press, and had incessant troubles in Ireland to put down. In 1823 he again took sides with the Whigs, and selected as premier the celebrated Geo. Canning, (q.v.) In 1829, the bill granting Catholic Emancipation was In 1829, the bill granting Catholic Emancipation wa passed. George IV. married in 1795 the Princess Caro passed. George IV. married in 1795 the Princess Caro-ine of Brunswick, whom he afterwards caused to be tried before the law courts on a charge of adultery, in regard to which the most generally received opinion is that it was baseless. He had lived with her for little more than ar, when he made overtures for a separation h was accepted; but the bill before the House of Lords for depriving his wife of her rights and privileges as queen of England did not take place till about the time of his coronation in 1820. He left behind him a most of ms coronation in 1820. He lett centred im a most disreputable character for general morality, and his treatment of his wife probably intensified the popular dislike which his habits had first engendered. D. 1830.

George, (CRRISTIAN WILLIAN FERDINAND ADDIFFUS,)
KING OF GREECE, second son of the reigning king of Demark, and brother of H. R. H. the Princess of Wales, B. 1845, served for a time in the Danish navy. Whon in 1863.

1845, served for a time in the Danish navy. When in 1863 otho I. abdicated the sovereignty of Greece, the throne was first tendered by a majority of the Greek people to Prince Alfred of England, but the English govt. refused to accept the nonination. It was then profered to Ernest Duke of Saxe-Coburg Gotha, who declined it; and finally to Prince Christian, who, with the consent of his own family and of the great Powers, accepted it, and now reigns as George I.—He was betrothed in May, 1867, at St. Petersburg, to the Princess Olga, daughter of the Grand Duke Constantine of Russia, whom he subsequently married. quently married.

OFFIC. DUKE OF CLARENCE brother of Edward IV

George, Duke of Clarence, brother of Edward IV., king of England, espoused the cause of Henry VI. and his queen, Margaret of Anjou, against his brother and sovereign. Some years afterwards, he was accused of baving sought the hand of Mary, duchees of Burgundy. He subsequently married a daughter of the earl of Warwick (the "king-maker"), and joined him in his revolt against the royal authority. Being taken prisoner, he was condemned to death. The unfortunate prince, being allowed to choose the mode of his death, is said to have drowned himself in a butt of Malmsey wine (1478). George, Lake, a picturesque sheet of water in the eastern part of the State of New York, remarkable for

eastern part of the State of New York, remarkable for the transparency of its waters and the beauty of its island and mountain scenery. The lake is 36 m. long and from 1 to 3 wide, extending N.N.E. and S.S.W., and bounded by Warrent co. on its N.W. and Washington co. on mest of its S.E. border. It is connected by a small stream with Lake Champlain, into which it discharges its waters, it thus forming a southern portion of the grand water system of the St. Lawrence and the Great Lakes. It is stud led throughout with islands, compris-ing a way 200 in all on a number of which are built reach. It is still led infoughout with islands, comprising some 390 in all, on a number of which are built
picture-que summer homes. The waters are, in some
places, 410 feet deep. The lake is surrounded by mountains, rising in some instances nearly vertically from its tains, rising in some instances nearly vertically from the waters, it presenting the aspect of a beautiful mountain basin. It is a favorite place of summer resort, is traversed by steamboats, and is one of the most arti-tive sheets of water in the eastern U. S. Its history is full of interest. It was first discovered by the French full of interest. It was first discovered by the French from Canala, and named by them St. Sacrament. Its Indian name was Caniaderioit, and received the provincial name of Lake Horioon, by which it is still sometimes called. At its southern end, Sept. 8, 1755, was fought a severe engagement between the French and English, each with Indian auxiliaries, which ended in the defeat of the French. Subsequently the English built Fort William Henry at its southern extremity and the French Fort Ticonderoga, on the divide between it and Lake Champlain. Both these forts were the scenes of interesting historical events. The English fort was attarked in 1757 by a French and Indian force under the Marquis de Montalm, and the garrison, capitulating after a gallant defence, were barbarously massacred by after a gallant defence, were barbarously massacred by the Indians. In the year following the army of Gen. Abstronmbie passed up the lake in 1,000 boats, attacked Absrcrymble passed up the lake in 1,000 boats, attacked Toonderoga, and met with a disastrous defeat. This statek on Ticonderoga was repeated in July, 1759, by Gen Amherst, whose army was similarly transported up the lake in boats. On this occasion the fort capitulated, in 1773 another attack was made on Fort Ticonderoga, this time by Ethan Allen and the "Green Mountain Boya," the fort being taken by surprise. A few years afterward Gen. Burgoyne made his southward march by way of Lake George, taking the fortifications on its banks, and proceeding south to his place of defeat at Saratoga. Picturesque ruins of Fort Ticonderoga rwasia, and some traces of Fort George, which stood at the southern extremity of the lake.

Sullivan co.

George, St., See St. George.

George, St., a town of Belgium. province Liege, 10 m.

N.E. of Huy. Extensive coal and iron mines are worked in the vicinity. Pop. 4,214.

George, (St.,) a channel separating Great and Little Nicobar Islands, in the Bay of Bengal; it is 15 to 18 m. long, and from 3 to 6 wide, extending E.N.E. and W.S.W. **leorge**, (St.,) one of the Privylov Islands, Behring Sea, of granitic formation, rising to the height of 300 ft. above the sea.

above the sea.

George. (St.,) ORDERS OF. There are several orders of St. George. Frederick III., Emperor of Germany, founded one in 1470, as a defence against the Turks.—
The military Russian order of St. George was founded by Catherine II., Nov. 26, 1769. It was afterwards neglected, but was restored to its original dignity by Alexander I., Dec. 12, 1801.—The order of St. George of the Réunion was founded by Joseph Buonaparte as the order of the Two Sicilies, Feb. 24, 1808, remodelled in 1815 by Perdinand I. and received its present name from King of the Two Sicilies, Feb. 24, 1808, remodelled in 1816 by Ferdinand I., and received its present name from King Ferdinand II., Jan. 1, 1819.—The order of St. Grorpe of Lucca was established by the Duke Charles Louis, June 1, 1833.—The Hanoerian order of St. George was founded April 23, 1839.

George, (St.,) Gulf of, an inlet of the Atlantic Ocean, on the E. coast of Patagonia, between Lat. 45° and 47° S., and Lon 65° and 67° W.

George's Channel, (St.,) that part of the Atlantic Ocean which is situate between Ireland and Wales, and extends from the island of Holyhead to St. David's on the Welsh coast, and from Dublin to Wexford on the Irish seaboard. It is from 40 to 70 m. wide.

George ville, in Ohio. a post-village of Franklin co.

Irish seaboard. It is from 40 to 70 m. wide.

Georges'ville, in Ohio, a post-village of Franklin co.

George'town (now St. Louis de Gongagne), a postvillage of province of Quebec, co. Beauharnaie, 38 m.

from Montrea.

George town, a village of Halton co., province of Ontario, about 29 m. N.W. of Toronto.

George town, a seaport town, cap, and on the east coast of King's co., Prince Edward Island. In British North America; Lat. 469 12' N., Lon. 62' 33' W.

George town, in California, a post-village and township of El Dorado co., about 15 m. N. of Placerville. In the vicinity are rich gold mines.

George town, in Colorado, cap. of Clear Creek co., on the U. P. and D. & G. R. Rs., 50 m. W. of Denver, 8,452 ft. above tide. Pop. (1880) 1,927.

George town, in Connecticut, a post-village of Fairfield co., about 14 m. 8, by W. of Danbury.

George town, in Delavare, a post-village, cap. of Sussex to., about 36 m. 8. by E. of Dover. Pop. (1890) 1,353.

George town, in the District of Columbia formetly a

1,353.

separate city, but now the local name of that part of Washington lying along the Potomac above the nouth of Rock creek. It is situated on elevated ground, dotted with handsome villas, and commanding a superbyiew of the surrounding country. Here are located the U.S. Naval Observatory, and the Georgetown University (R. C.), besides other public institutions and a large number of handsome private residences. The old part is qualntly picturesque, and contains some notable historic spots. The Chesapeake and Ohio Canal crosses the Potomac at G. by a magnificent aqueduct, constructed at a cost of \$2,000,000.

structed at a cost of \$2,000,000. icorgetown, in Georgia, a post-village, cap of Quit-man co., on the Chattahoochee river, nearly opposite Eufaula, Alabama. icorgetown, in Illinois, a village of Clay co., now called Bible Grove.

called Bible Grove.

—A village of Randolph co.; its P. O. is STEELEVILLE.

—A post-village of Vermillion co. Pop. (1890) 662.

Georgetown, in Indiana, a village of Cass co., about 8 m. W. of Logansport.

m. W. of Logansport.

A post-village and township of Floyd co., about 9 m. W of New Albany.

of New Attanty.

Georgetown, in Ioua, a post-office of Monroe co.
Georgetown, in Kentucky, a post-village, cap. of
Scott co., on the N. Elkhorn river, about 17 m. E. of Frankfort

corgetown, in Maine, a post-town of Sagadahoc co

Georgetown, in Maise, a post-town of Sagadahoc co., composed of two islands in the Atlantic Ocean, 35 m. S. by E. of Augusta. Pop. (1897) about 900.

Georgetown, in Massachusetts, a post-town and township of Essex co., about 30 m. N. of Boston. Here are extensive manufactories of boots and shoes, carriage works, and other industries. Pop. (1895) 2,117.

Georgetown, in Mississippi, a post-township of Ottawa co., on Grand river.

Georgetown, in Mississippi, a post-township of Chyco, about 80 m. N.W. of Otter Tail City.

Georgetown, in Mississippi, a post-township of Copials co., on the Pearl river, about 40 m. S. of Jackson.

Georgetown, in Mississippi, a post-township of Copials co., on the Versic Lamine river, about 47 m. S. of Jackson.

on the W. fork of LaMine river, about 37 m. W.S.W. of Boonville.

monville. Georgetown, in New Jersey, a post-village of Burlington co, about 9 m. N.E. of Mount Holly. Georgetown, in New York, a post town and township of Madison co., about 30 m. S.E. of Syracuse. Pop. (1890) 1,172.

remain, and some traces of Fort George, which stood at the southern extremity of the lake.

George-me'ble, a. An English gold coin of the reign of Heary VIII., worth about 5s. 8d. sterling, or \$1.50.

George's Creek, in Illinois, a village of Massac coabout 125 m. 8. by E. of Vandalia.

George's Creek, in South Carolisa, enters the Saluda river in Pickens co.

A post-office of Pickens co.

A post-office of Pickens co.

A village of Lancaster co., about 15 m. 8. of Lancaster.

A village of Lancaster co., about 15 m. 8. of Lancaster.

A village of Mercer co., about 15 m. 8. of Lancaster.

A village of Mercer co., about 75 m. N. by W. of Pittsburgs.

burg.
-A village of Northumberland co., on the Susquehanns river, about 40 m. above Harrisburg.

—A village of Wayne co.

Georgetown, in South Carolina, an E.S.E. co., border-

ing on the Atlantic Ocean; eres, about 742 sq. m. Rivers. Santee, Pedee, Waccamaw, and Black rivera. Surface, level; soil, not very fertile. County-town, Georgetown. Pop. (1890) 10,857.

—A city, port of entry, and the cap. of the above co., on the W. shore of Wingan Bay, a short distance below the Union of the Great Pedee, Black and Waccamaw rivers, 15 m. from the Atlantic Ocean, and about 130 m. E.S.E. of Columbia. Pop. (1897) about 3,000.

Georgetowm, in Texas, a post-town, cap. of Williamson co., on the San Gabriel river, about 40 m. N. of Austin. Pop. (1897) about 3,000.

Georgetowm, in Texas, a post-town, cap. of Williamson co., on the San Gabriel river, about 40 m. N. of Austin. Pop. (1897) about 3,000.

Georgetown, in West Virginia, a P. O. of Lewis co. Georgetage (Pers. Gardjistows, Russ. Grasis; anc. Iberia,) a country of W. Asia, and formerly the center of a monarchy of some extent, but now a part off Russian Transcaucasia, embracing a considerable portion of the isthmus between the Caspian and Black seas; extending from Lat. 40° to 42° 30′ N. and Lon. 43° 20′ to 46° 50′ E.; separated on the N. by the central chain of the Caucasus from Circassia; E. by the Alazan and Kurak (two casus from Circassia; E. by the Alazan and Gulistan; S. and S.W. by the Kapan mountains from Armenia; and W. from Imeritia, by a transverse Caucasian range. Thus surrounded on three sides by mountain-ranges, G. is in a great measure shut out from communication with the neighboring countries, there being but one Thus surrounded on three sides by mountain-ranges, G. is in a great measure shut out from communication with the neighboring countries, there being but one pass either across the Caucasus into Circassia, or across the W. range into Imeritia. Length, N.W. to B.E. abt. 175 m.; average breadth, from 100 to 110 m. Area, estimated at 18,000 sq. m. Dec. The surface is mostly mountainous, consisting of table-lands and terraces, forming a portion of the S. and more gradual slope of the Caucasus. The country, however, slopes from the S. and W. as well as the N. to the centre and S.E., which are occupied by the valley of the Kur. an undulating plain W. as well as the N. to the centre and S.E., which are occupied by the valley of the Kur, an undulating plain of considerable extent and great fertility. Between the mountain-ranges there are also numerous fertile valleys covered with fine forests, dense underwood, and rich of considerable extent and great fertility. Between the mountain-ranges there are also numerous fertile valleys covered with fine forests, dense underwood, and rich pasturages watered by many rivulets. Rivers. All the streams have more or leas an E. course. The principal is the Kur or Mthwari (anc. Cyrus). This river rises in the range of Ararst, a little N.W. of Kars. Its principal affluents are the Aragwi from the N., which unites with it at Mtskethi, the ancient cap. of E., abt. 10 m. N.W. of Tiflis; and the Aras (anc. Arazes) from the S. Clim. Generally healthy and temperate, being much warmer than that of Circassia, or the other countries on the N. slope of the Caucasia. Soil. Very fertile, producing the cereals, rice, maize, millet, lentils, madder, hemp. flax. cotton, wine, and fruits (especially fine melons and pomegranates). Min. Iron, coal, naphtha. &c. Zoil. Deer, antelopes, wild goats, bears, jackals, lynxes, wild boars, &c.; game is very abundant; domestic animals of all kinds are reared, the horses and horned cattle equalling the best European breeds in size and beauty, while the long-tailed sheep yield excellent wool. Mansf. Coarse woollens, cottons, and silk fabrics, leather, shagreen, fire-arms, &c. Inhab. The Georgian women, though not generally reckoned handsome in Europe, have long enjoyed the highest reputation for beauty in the East; the ma are also, on the whole, well formed and handsome. Until lately, the harems of the rich Moslems of Turkey and Persia have been wholly or principally supplied by female slaves brought from G., Circassia, and the adjoining provs. and they also furnished male slaves to supply the Egyptian corps of mamelukes, and various other bodies, with recruits. In modern times, the Georgians have been divided, with the exception of a few free commoners, into tian corps of manielukes, and various other bodies, with recruits. In modern times, the Georgians have been divided, with the exception of a few free commoners, into the two great classes of the nobles and their vassals and slaves. Religion. Greek Church; little or no education prevails, the clergy themselves being generally very ignorant. Cap. Tiflis. Pop. (1897) about 605.000. Georgia, New, or Sourn Grongia, an island in the S. Atlantic Ocean; Lat. 549 30° S., Lon. 37° W. It is 90 m. long, by 30 broad. Georgia, in Georgia, a district of Clarke co. Georgia, in Reliance, a post-office of Lawrence co. Georgia, in Vermoni, a post-township of Franklin co., on Lake Champlain.

on Lake Champlain.

Reorgia, one of the United States of America, and the most southerly of the thirteen original States of the Union; between Lat. 30° 22' and 35° N., and Lon. 81° and 85° 30' W.; having N. Tennessee, and a small portion of N. Carolina; N.E. and E., S. Carolina and the Atlantic; S., Florida; and W., Alabama. Extreme length, N. to S., 320 m.; maximum breadth, 254. Area, 58,000 sq. m., or 37,120,000 acres. DESC. The coast-line of this State extends abt. 100 m., and is skirted by a serious of low flat and visiands, leaving but four naviseries of low, flat, sandy islands, leaving but four navi-gable entrances, viz., at Savannah, Darien, Brunswick, and St. Mary's. The mainland for about 50 m. into the and St. Mary's. The mainland for about 50 m. into the interior is perfectly level; and for several miles from the sea-board consists of a sait marsh of recent alluvion; the whole of the flat country is intersected by swamps. which are estimated to constitute one-tenth part of the whole State. The Okefinoke Swamp, 50 m. long by 30 broad, and 180 m. in circumference, lies at some distance inland, upon the borders of, and partly within, Florida.
This swamp is regularly inundated during the rainy season. At the extremity of the low country there is season. At the extremity of the low country there is a barren sandy tract of rather greater elevation, which extends N. as far as the river falls, and is generally regarded as dividing the upper from the lower country. Farther N. the surface becomes gradually more hilly and broken, and the N. extremity of the State comprises

e of the most S. ridges of the Appalachian mountain

chain, which here rise to about 1.500 ft. above the level of the Atlantic. There are only three harbors the coast capable of receiving ves-sels exceeding 100 tons burden, viz., those for med by the mouths of the rivers Savannah, Altamaha, and St. Mary's. Rivers, &c. The Savannah, the Savannah, the St. Mary's, q. v. Besides



Fig. 1144. - SEAL OF THE STATE

these three grest rivers, the Ogecchee, flowing S.E. abt. 200 m., is navigable for vessels of small tonnage for a distance of 30 to 40 m., and for keel-boats to Louisville. The Santilla and St. Mary's drain the S.K. counties, and the Flint, Ocklochonee, and Suwanee with their branches, the S.W. The Flint, an affluent of the Chattahoochee, is abt. 300 m. in length, and is marigable to Albany for steamers. The Coosa and Tallapoosa (head-waters of the Albany for steamers. The Coosa and Tallapoosa (head-waters of the Albany for steamers. The Coosa and Tallapoosa (head-waters of the State. Soil. The soil of G. is, for the most parthighly productive. In the low country and the scalishada, it consists of a light gray sand, gradually becoming darker and more gravelly toward the interior. Farther N. It is a black loam mixed with red earth, called the mulato soil; this is succeeded in the more remote districts by a rich black mould of superior fertility. Clim. de. As the elevation of the N. part of the State is estimated at from 1,200 to 1,500 ft. above the level of the islands on the coast, a difference of more than 7's settimated to exist between the mean temperature of the two extreme points. The N. parts are very healthy, and the winters mild; frost and snow frequently occur but are not severe or of long continuance. Hurricanee and thunder-storms frequently occur in the fall, at which season the agriculturists and planters generally remove either to the islands, or the most N. districts of the State. In the low region the thermometer usually rangee during the summer from 76° to 90° Fahr., but it has been known to stand as high as 102° Fahr. Vegdation. The tops of the hills are mostly crowned with forests, composed chiefly of the pine, palmetto, oak, ash, cypress, hickory, black walnut, mulberry, and cedar trees. The growth along the riparian bottoms is of canes, cypress, insepnolia (glauca and grandifora), gumwoods of different species, including the liquid-amber tree, oaks, tullp, sweet bay, and many other genera; w

in 1890 being \$6,216,585; of tar and turpentine, \$4,242,255.—Redrouds, &c. The State possessed in 1880, 2,459 miles of railroad; in 1890, 4,263 miles; and in 1897, 5,370 miles. Its six navigable rivers, with the estuaries and sounds along much of its coast, yield a total of several thousand miles of waterway. Two canals are projected, one from the Flint to the 0-emulgeeriver, which would permit inland navigation from the waters of the Atlantic to those of the Gulf; the other from the 0-emulgee to the Tennessee.—Geol. and Miss. In G. the older limestones are confined to the N. portion of the State, through which they are somewhal liberally distributed. They occur as mattle of good quality in the counties of Gilmer, Hall, White. Cherokee, and Habersham, and in varying forms in the more W. counties, the martles being practically inexhaustible in quantity. The most eastern development of the great cretaceous bed of Alabama and Mississippi, is found in the counties of Muscogee, Marion and Stewart, manifesting itself as the well-known rodes limeslose. Immense beds of almost unaltered shells are found in the central part of the State, within 20 or 25 m. of the gueiss and sandstone belt. The mart beds of the tertiary period in G., with the foregoing exception, are similar, as far as is known, to those of South Carolina, both in location and character. The mineralogical resources of this State are, as yet, but only partially developed; gold has been found in considerable quantities in its N. districts. There is yet much room for the



Fig. 1145. -BAVANNAH IN 1850

vigorous and intelligent prosecution of alluvial mining in G; the surface of a great part of the country being abrupt, and the auriferous rocks subjected by nature to much dislocation and atmospheric exposure; hence, not only the beds of the rivers, but the outlying detritus of their valleys, will unquestionably give large returns to the new and powerful hydraulic and other improved appliances now in use for mining purposes. Near the function of the limestone with the metamorphic rocks immense deposits of iron are found, in the latter ranging N. E. from the S. E. corner of Cass through Cherokee co. Copper and coal also exist, the latter in extensive deposits, and there are several valuable mineral springs. Good millistone is met with in the central counties and various other valuable minerals are plentifully found.—Zoil. Bears and deer inhabit the forest lands, alligators infest the swamps and entrances of the rivers, the reptile species are well represented, and honey-bees are very numerous in the S. portion of the State.—Com., &c. Cotton is the great staple, and it and tobacco, indigo, canes, timber, small fruits, and maize form the leading articles of export; the sugar-cane habitherto been cultivated mostly for home consumption only. From the distance between the N. part of the State and its ports, and the difficulty of communication by water, the grain and other produce of the interior have a rather limited outlet. The former deficiency in transportation has, however, been amply remedied by the extension of internal improvements. At Atlanta, a city of remarkable commercial progress, having a population in 1890 of 85.533, and now claiming over 100,000 souls, exists a concentration of railroad communication and coal G. has made great progress since 1870, producing in 1890, 250,755 tons of fron ore, against 9,000 in 1870. The total assessed valuation of real property in the year 1896 was \$255,613.778; personal property, \$143, 309,845.—Political Dirisions, &c. G., is divided into 137 countles, as follows: vigorous and intelligent prosecution of alluvial mining in G.; the surface of a great part of the country being abrupt, and the auriferous rocks subjected by nature to

Appling.	Campbell.	Colquitt,	Effingham.
Baker,	Carroll,	Columbia,	Elbert,
Baldwin,	Catoosa,	Coweta,	Emanuel.
Banks.	Charlton,	Crawford.	Fannin,
Bartow.	Chatham,	Dade.	Fayette.
Berrien,	Chattahoochee,	Dawson,	Ployd,
Bibb.	Chattooga,	Decatur,	Foreyth,
Brooks,	Cherokee,	De Kalb.	Franklin,
Bryan,	Clarke.	Dodge,	Fulton,
Bullock,	Clay,	Dooly,	Gilmer,
Burke,	Clayton,	Dougherty,	Glascock,
Butts,	Clinch,	Douglas,	Glynn,
Calhoun,	Cobb,	Early,	Gordon,
Camden	Coffee	Echola.	Greene

Hall, Hano Macinto Harala Macon, Madison, Harris, Hart, Heard, Henry, Houstot Irwin, Jackson Jasper, Jefferson Johnson, Jones, Laurens, Lee, Harris Marion, Meriweth Miller, Milton, Mitchell Monroe, Montgon Morgan, Murray, Muscoge Newton, Oconee, Oconee, Oglethorp Paulding,

Pickens, Picros, Pike, Polk, Pulaski, Putnam, Qui: man, Rabun, Raban, Richmond Rockdale, Behley, Scriven, Scriven, Spaiding, Stewart, Sumter, Taibot, Ta:inferre Tatnali, Taylor,

Upson, Upson, Walker, Walton Wayne, Webster,

Lee, Doonee, Liberty, Ogiethorpe, Tailaferro, Wilcon, Liberty, Ogiethorpe, Tainail, Taylor, Wilkiasson, Werth Liberty, Ogiethorpe, Tainail, Taylor, Wilkiasson, Werth The principal cities and towns are Savannah, Augusta, Atlanta (capital), Molledgeville (former capital), Macoo (once the capital), Columbus, Rome, Athena, Newtoo (once the capital), Columbus, Rome, Athena, Newtoo (Georgia (now also the Agricultural College), at Athena, was founded in 1788–89, since reorganized: it possesses a philosophical and chemical laboratory, a cabinet of minerals, a good library, and a botanical garden. Other colleges flourish at Milledgeville, Oxford, Penfield, Atlanta, Blacon, and a medical college at Augusta. The State has a school-fund, and there are numerous academies in Savannah, Augusta, Atlanta, &c.; several manual labor schools, too, have been successfully established in different parts of the State.—Gort. The new Constitution of Georgia was voted upon by the people, and thus ratified, in Dec. 1877. By it, perpetual charters with special privileges are probibited, passenger and freight tariffs are regulated and all diacrimination is forbidden, stringent laws are provided against duelling and lobbying (the latter is made a crime), petty larceny, disfranchises, and the State is prohibited from lending aid to rallroads. Ample provision seems to have been provided for the protection and education of the negro. and he enjoys the full right of citizenship. The whipping-post is abolished, and there is no imprisonment for debt. The legislature meets biennially, and the per diem is reduced to \$3.00. A popular vote was also taken upon locating the State capital, resulting in favor of retaining Atlanta.—Hist. G. was the last settled of the present U. S. founded by the British. It was first colonized by them in 1733, in which year the city of Savannah was founded by General James Oglethorpe. It suffered much during the early period of its settlement from the incursions of the savages, and it was not until 1835 that the Cherokees

country of Asia.

—Belonging or relating to the reigns of the four Georges, kings of Great Britain; as the Georgian era.

—s. A native or resident of Georgia.

Georgianna, (jor.je-d'na.) a co. of E. Australia, in New South Wales, traversed by the Abercromble River and its affluents. On the banks of the former gold has been found.

Georgiana, in Culifornia, a township of Sacramento

Geor'gian Bay. See Mantroulin Lake. Geor'gia Plain, in Vermont, a P. O. of Franklin co. Geor'giaville, in Rhode Liland, a post-office of Provi-

dence co.

Georgie, n. [Fr. géorgique; Lat. georgicum; Gr. georgikos, from ge, earth, and erganein, to work.] (Lit.)

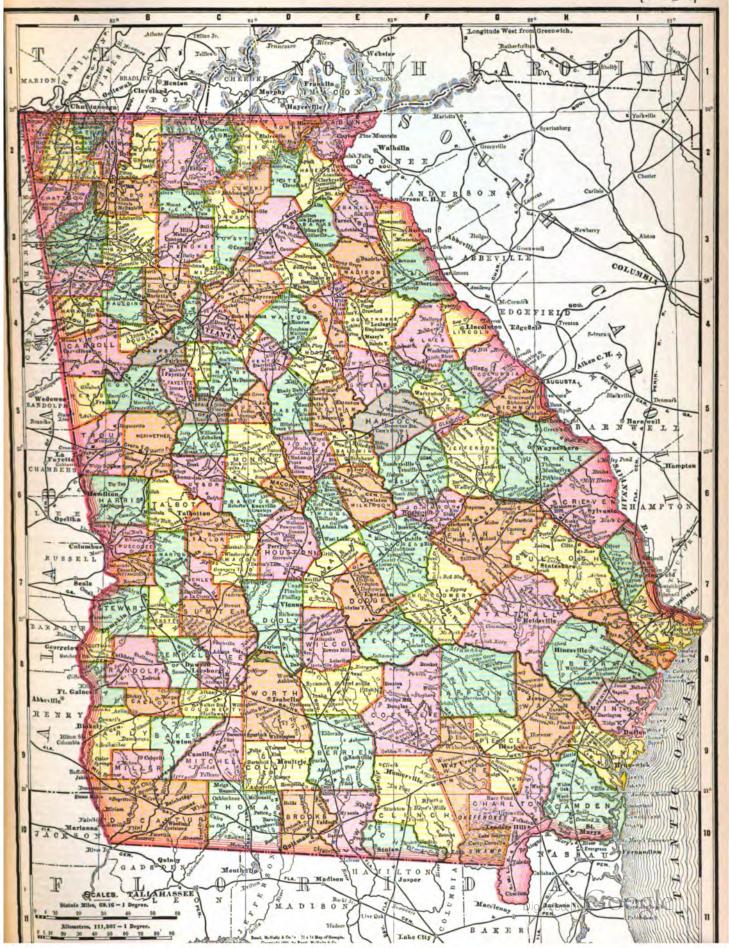
A rural poem; a poetical composition on the tillage or culture of the earth, or on the subject of husbandry, containing rules for cultivating land, rearing cattle, &c.; as, Virgil's Georgics.
-a. Relating to the doctrine of agriculture and rural

affairs.
Georgics. (je-or'jiks.) n. pl. (Lit.) A poem on agriculture and rural economy in four books, by Virgil. It is regarded as the most perfect of his works.
Georgievsk, (pa'or-ge-cesk.) a fortified town of the Russian empire, govt. Caucasus, 90 m. from Stavropol; pop. 3,000, mostly Cossacks.
Geothermom'eter, n. [Gr. gë, the earth, and Eng. thermometer.] (Phys.) An instrument for measuring the temperature of the earth at different depths, as in wells or mines, and for determining its rate of increase with the depth.

wells or mines, and for determining its rate of increase with the depth.

Ge'pides. (Hist.) A Germanic tribe, originally inhabiting the shores of the Baltic, expelled the Burgundians from Northern Germany in the middle of the 3d century, and invaded the Roman territory in 269. Having been conquered by the Huns late in the 4th century, they regained their independence on the death of Attila in 483, but are not mentioned after 566 or 567.

Digitized by



GEORGIA	Georgia—cont'd.	Georgia—confd.
Land area, 58,991 sq. m.	COUNTIES.	Pop. — Hundreds. 7 Fairburn C 4
56,990 sq. m. Water area, 495 sq. m.	Twiggs E 6 Union D 2 Upson C 6 Walker A 2	7 Calhama D 0
495 sq. m. Pop	WaltonD 4 WareF 9	7 Dover H 6 7 Perry D 7 7 Canton B 3 7 Abbeville E 8 7 Blackshear
Native 1,825,216 Foreign 12,187		7 Grantville B 5
Chinese 108	Webster	6 Rochelle .E 8 6 HarlemG 5 6 BostonD 10
Japanese5 Indian 68	WilkesF 4 WilkinsonE 6	6 Harlem G 5 6 Boston D 10 6 Chauncey E 7 6 Ellaville C 7 6 Crawford E 4
COUNTIES.	Worth 8	6 Harmony Grove. E 3 6 MilnerC 5 6 Rutledge .D 4
Appling G 8 Baker B 9 Baldwin E 5	CHIEF CITIES.  Pop.—Thousands.	6 Crawiord
Bartow B 3	66 Atlanta . C 4 43 Savannah I 7	6 AustellB 4 6 Knoxville.D 6 6 Harrison .F 6 6 St. Marys.H 10
Berried	38 Augusta H 5 23 Macon D 6 17 Columbus A 7	O TWAIGHEG.
Butta C 5	9 Athens E 4 8 Brunswick I 9	villeD 4 6 Summer-
CamdenH 10		6 Kingston B 3
Catoosa A 2	K Griffin D 10	5 Jefferson D 3 5 ViennaD 7
CHACCALIO	4 Albany C 8 8 Marietta . B 4 8 WayCross G 9 8 Milledgeville	3 Admisvine
ChattoogaA 3 CherokeeC 3 ClarkeE 4	E 5	5 Adel E 9 5 Wadley G 6 5 Cairo C 10 5 Gordon E 6
chee B 7 Chattooga A 3 Cherokee C 3 Clarke E 4 Clay B 8 Clayton C 5 Clinch F 10 Coulob B 4 Coffee F 9 Colquit D 5 Coweta B 5 Crawford D 6	8 Galnesville D 3 3 La Grange A 6 3 Dalton B 2 3 Newnan B 5 3 Valdosta E 10 3 Wasbington F 4 2 Cutthert B 8 2 Dawson C 8 2 Madison E 4 2 Quifman D 10 2 Barnesville C 6 2 Covington D 10	5 Zoar H 7 5 Hogansville B 5
Colfee F 9 Colquitt D 9	3 Newnan B 5 3 Valdosta E 10 3 WashingtonF 4	5 McDonough C 5
Columbia G 5 Coweta B 5 Crawford D 6	2 Cuthbert. B 8 2 Dawson . C 8 2 Madison E 4	5 High Shoals D 4 5 White Plains
Dade A 2	2 Quitman D 10 2 BarnesvilleC 6 2 Covington D 4	F 5 5 Collins G 7 5 Lexington E 4 5 Buford D 8
500,00	2 Sandersville F 6	5 BufordD 8 5 Hamilton B 6 5 MidvilleG 6
Douglas B 4	2 Hawkinsville D 7 2 FortValleyD 6 2 Waynesboro	5 Ogiethorpe
Fibert F 3	2 TallapoosaA 4	5 Lumber City F 8
Emanuel G 6 Fannin C 2 Fayette C 5	2 Eatonton, E 5	5 Ringgold A 2 5 Shellman B 8 5 Richland B 7 5 Dallas B 4
Flovd A 3	2 Cedartown A 3 2 Cordele . D 8 2 Elberton . F 4 2 Sparta . E 5 2 Cochran . E 7	5 Dallas B 4
GlimerC 2	2 Cochran E 7 2 Lumpkin B 7	6 Richiand B 7 5 Dallas B 4 4 Allapaha E 9 4 Leesburg C 8 4 Blakely A 9 4 Bartow F 6 4 Ellijay C 2 4 Tifton D 9 4 Nashville E 9 4 Villa Rica B 4 5 Statesbord 7 4 Flovilla D 5
Glynn H 9 Gordon B 2 Greene E 5	Darien 1 9 Carrollton 4 Conyers D 4	4 Tifton D 9 4 Nashville E 9
Greene E 5 Gwinnett C 4 Habersham D 3 Hall D 3 Hancock E 5	West Balance	4 Flovilla D 5
Haralson A 4 Harris B 6	Lithonia G 4 Thomaston C 6 Talbotton C 6 Roswell C 3	4 Hampton C 5 4 Arlington B 9 4 Smyrna B 4 4 Culloden C 6
HandockE 5 Haralson A 4 HarrisB 6 HartF 3 HeardA 5 HenryC 5 HoustonD 7	1 FortGaines A 8	4 Culloden .C 6 4 Rock Mart A 4 4 Bronwood C 8
Jackson D 3	1 Marshallville C 7 1 Eastman . E 7	4 Ashburn D 8 4 Towns F 8
Jasper D 5 Jefferson G 5 Johnson F 6 Jones D 5 Laurens F 7	1 DecaturC 4 1 MonroeD 4 1 WarrentonF 5 1 TennileF 6	
Lee	1 Tennille F 6 1 Cave Spring	
	Pop.—Hundreds.	
Lowndes E 10 LumpkinC 2 McDuffieF 5 McIntoshI 9 Macon	9 Stone Moun- tainC 4 9 Rising Fawn	
Madison E 3	9 Jackson D 5 9 Forsyth D 5 9 Wrightsville	
Meriwether B 5 MillerB 9 MiltonC 3 MitchellC 9 MonroeD 6	F 6	
Monroe D 6 Montgomery 7 Morgan D 4	9 Greenville is 5 9 Dahlonega C 2	
	9 Douglasville B 4	
Oconee E 4 Oglethorpe E 4 Paulding B 4	9 Senois B 5 9 Dublin F 7 9 Millen H 6 8 Monticello D 5	
PickensB 3 Pierce G 9 Pike C 5		
Pickens	8 Thomson F 5 8 Hartwell F 8 8 Acworth B 8 8 Trion A 2	
Quitman A 8 Rabun E 2	8 Jonesboro C 4 8 McRae F 8 8 Buena Vista	
Rockdale C 4 Schley C 7	7 East Point C 4	
Screven H 6	7 Social Circle D 4 7 Norcross .C 4	
Talbot R 6	7 Norcross .C 4 7 ButlerC 6 7 Mt.VernonF 7 7 Montezuma	
TaylorC 6 TelfairE 8	D 7 7 Smithville C 8 7 Union Point	
TownsD \$	7 Walthour- villeH 8	
TroupA 5	······	

Ge'ra, a walled town of Central Germany, principality of Reuse-Schleiz, cap. of lordship of same name, on the Elster, 22 m. N.E. of Schleiz, and 34 S.W. by S. of Leip-zig. This place has long been noted for its commercial activity, having manufactures of woollen and cotton fabrics, hats, leather, tobacco, soap, porcelain, oil-cloth,

&c.
Gerace, (ja-rd'cha,) [anc. Locri.] an inland town of S.
Italy, prov. Reggio, on a bill within 4 m. of the Ionian See, 47 S.S.W. of Catanzaro, and 29 N.N.E. of Cape Spartivento.
Some fine Greek antiquities are found here. Pop. 7,073.

Ge'rah, n. [Heb., a bean.] The smallest coin used among the ancient Jews, of which twenty went to the shekel

Geran'do, Maris Joseph de, a French metaphysician, 2. 1772. His principal works are Histoire comparée des Systèmes de Philosophie, and De la Bienfuisance Pu-

Nique D. 1842.

Geramia Cose, n. pl. [Lat., from Gr. geranion, from grames, a crane.] (Bot.) An order of plants alliance Geranicles. Data Usually symmetrical flowers; styles and carpels combined round a long-beaked torus. They are herbs or shrubs, with simple leaves, membranous stipules, and articulated swollen joints. Flowers usually symmetrical; sepals five, imbricated; petals twisted in setivation; stamens generally somewhat monadelphous. Fruit consisting of five carpels, attached by



Fig. 1146. — GERANIACEÆ e, Gerchium; b, Pelargonium; c, Herb Robert (Gera

means of their styles to an elongated axis or carpophore, from which they separate, when ripe, from below upward, by the curling up of the styles. Seeds, one in each carpel, exalbuminous; embryo convoluted. Some plants of this order are distributed over various parts of the world, but the greater number are found at the Cape of Good Hope. There are four genera, and about 500 species, many very remarkable for the beauty of

their nowers. Germing 'less, s. pl. (Bot.) An alliance of plants, sub-class Hypogynous exogens. Diag. Monodichlamydeous, symmetrical flowers; axile placents; imbricated ca-iyx; twisted corolla; definite stamens; and an embryo with little or no albumen. The G. are divided into the five orders; Linacez, Nulmaceze, Ozalidacez, Balsami-nova, and Germinous.

five orders; Linaces, Crismaces, Valences, and Geraniaces, and Geraniaces.

ieramium, (je-rd'ne-dm,) n. (Bot.) The Crane's-bill, the typical genus of the order Geraniaces. Many species are American plants, being generally mere weeds of no interest, while others are extremely showy border-flowers. The favorite plants called Geraniums to this genus but to the genus Flargoborder-flowers. The favorite plants called Geraniums do not belong to this genus, but to the genus Pharyonium, q.v. The Stinking Crane's-bill, or Herb Robert, Geranium Robertianum, a common weed in dry, rocky places, with a diffuse habit, deeply divided leaves, and small flowers, has been used medicinally as an astringent, and in nephritic complaints. The Spotted Geranium, G. maculatum, with flowers of considerable beauty, is the most valuable medicinal plant of the genus. It is found throughout the U. States and Canada.

Gera/maium, (Oil Of.) n. (Prfum.) An essential oil, hnown in India as Roshé, or Rossé oil, and in trude as Turkish Essence, Oil of Geranium, or Oil of Ginger-grass. It is obtained from a plant of the genus Andropozon.

Turkish Essence, Oil of Gerantum, or Oil of Ginger-grass. It is obtained from a plant of the genus Andropogon, believed to be the Andropogon Calamus Aromaticus. This oil is employed by the Turks to adulterate attar of roses, q. v., and is considered by some to be identical with the Grass-oil of Nemaur.

Geran. (Script). An ancient town or place of the Philistines in the times of Abraham and Isaac, in the S. of Judah, not far from Gara.

Gérard, Baltharar, the assassin of William I., Prince of Orange; executed 1584.
Gérard, Maurice Etienne, Count, marshal of France,

s. in 1773. He entered the army at the age of 18, and soon after was made aid-de-camp to Bernadotte. He served at the battles of Austerlitz and Wagram, in the Peninsula, and in the expedition to Russia, in which he greatly distinguished himself. He took part in the campaigns of 1813, 1814, and 1815, and was severely wounded at Leipsic. He was created marshal in 1830, wounded at Leipsic. He was created marshal in 1830, and held for a short time the portfolio of war. Two years later he besieged and took the citadel of Antwerp; held the office of first minister in 1834, and D. in 1852. He was made Grand Chancellor of the Legion of Honor four years before his death. D. 1856.

Gér'ard, François, a French historical painter, R. at Rome, 1770. He became, at the early age of 14, a pupil of the celebrated David, and is thought by many to have equalled, if not surpassed, his master. His first and also one of his most celebrated works was the picture of Belisarius. His Entrance of Henry IV. into Paris is probably his masterpiece. Among his other works are the Battle of Austerius, Psyche, Thetis, and a large number of portraits of distinguished men. G. was the greatest portrait-painter of his time in France. His studie was visited in 1814 by the emperors of Russia and Austria, and the king of Prussia. He was first painter to Louis XVIII., member of the Institute, and of the Legion of Honor, &c. D. 1837.

Gerard Thorn, or Tenque, founder of the order of St. John of Jerusalem, B. at Amalfi, about 1040. He first visited Jerusalem for commercial objects, but about 1100 he assumed the religious habit, and associated with

first visited Jerusalem for commercial objects, our about 1100 he assumed the religious habit, and associated with others, who took the vows of chastity, poverty, and obedience; the object of their institution being to defend Christian pilgrims in their journey to and from the Holy Land. Thus arose the powerful order of Knights Hospitallers of St. John, who afterwards became the knights of Malle, and acquired annot distinguished fame. of Malta, and acquired such distinguished fame.

of Malta, and acquired such distinguished fame. D. about 1120.

Gerar'dia, n. (Bot.) A genus of plants, order Scrophslariacze. They are American herts, rarely suffrutices, having opposite leaves, and axillary, solitary, purple or rose-colored flowers.

Gerbier-des-Jones, (shair'be-ai.) a mountain of France in the Cevennes chain, dep. Ardèche, 20 m. from Privas, attaining an altitude of 5,120 ft. above sea-level.

Geremonbo, (sha-ra-mo-a'bo.) a town of Brazil, prov. of Bahia; pop. abt. 4,000.

Gerfalcon, or Jue-Falcon, n. [Fr. gerfaut.] (Zod.) The Falco Gyrfalco, a species of falcon, (see Fig. 987.) considered as the boldest and most beautiful of the tribe. In size it approaches closely to that of the caprey. Its general color is brownish-gray, of varied that shove and white beneath, and brown longitudinal spots. The tail is crossed with a number of deeper and lighter bands, and the bill and legs are usually of a pale-blue or yellowish color. Three varieties of the gerfalcon are mentioned by Buffon; the first two are similar to the species above described, and the third is entirely white. The gurfalcon is a native of Bussia, Norway, Iceland, and Baffin's Bay. Of all the rapacious birds, except the eagle, it is considered the most formitable, the most fever articles and the most formitable, the most extreme and the most formitable, the most extreme and the most formitable. Norway, Iceland, and Baffin's Bay. Of all the rapacious birds, except the eagle, it is considered the most formidable, the most active, and the most intrepid; it attacks the largest birds boldly, and when transferred from the coldest climate to the warmest, its strength is not diminished, nor is its vivacity checked in any degree.

Gerhardt, Karl Friedrich, a French chemist, B. at Strasburg, 1816. At the age of 15, he was sent to the Polytechnic School of Carlsruhe, where his attendance at Professor Walchner's lectures first awakened in his mind a teste for chemistry. After two ware, residence

mind a taste for chemistry. After two years' residence in this town, he removed to Leipsic, where he attended the lectures of Erdmann, which seem to have developed in this town, he removed to Leipsic, where he attended the lectures of Erdinann, which seem to have developed in him an irresistible passion for questions of speculative chemistry. He worked afterwards for 18 months in the laboratory of Giessen, under Liebig's superintendence; and in 1838 he arrived in Paris, where he was cordially welcomed by Dumas. Here he gave lectures and instructions in chemistry, and, with Chevreul's permission, worked in the laboratory of the Jardin des Plantes, where he commenced his important researches on the essential oils. In 1844, he was appointed professor of general chemistry in the faculty of sciences at Moutpeller. About this time, he published his Précis de Chimie Oryanique, in which he sketches the idea of "homologous and heterologous series" (q. v.), which at a later period he so successfully developed. In 1848, he resigned his chair and returned to Paris, where he established, between the years 1849 and 1855, in successive memoirs, his views of series and the theory of types, with which his name will be ever associated in the history of chemistry. It was there, also, that he gave to the scientific world his remarkable researches upon the anhydrous acids and the oxides. All his ideas and his discoveries are embodied in his Traité de Chimie Organique (1853–1856, 4 vols.) He had hardly completed the correction of the last proof of this great work, when, after an illness of only two days, he died 1856.

vols.) He had hardly completed the correction of the last proof of this great work, when, after an illness of only two days, he died, 1856.

Ger hardt's Notattion, n. (Chem.) A method of expressing chemical formulæ, differing from that in general use by the doubling of the equivalent numbers of certain elements. By comparing the specific gravities of elements with their equivalent numbers, it will be seen that in a few cases there is a discrepancy between them;—thus:

•	Equiv.	Spec. grav
Hydrogen	. 1	1
Oxygen	. 8	15.9
Sulphur (vapor)	. 16	31.7
Chlorine	. 35.5	34.9
Bromine	. 80	79-8

To remove this anomaly, the French chemist Gerhardt doubles the equivalent numbers of oxygen, sulphur, doubles the equivalent numbers or oxygen, suppur, carbon, selenium, and tellurium, on the assumption that "equal volumes of elementary gases and vapors contain the same number of atoms when compared under the same conditions of heat and pressure." This is equivalent to saying that the atoms of oxygen weigh 16 times as a compared to the same label. nuch as atoms of hydrogen, though of the same bulk or volume, since a cubic foot of oxygen weighs 16 times as heavy as a cubic foot of hydrogen. These doubled equivalents are generally indicated by a line drawn through the letter:—thus, 4, 4, 8, 4, 6, 6, the compounds mentioned below, the formulæ are given according to both systems, the new equivalents being printed in Italics.

Compound.	Old Formula.	New Formula.
Water	но	H <sub>0</sub> O
Potash	KÖ	K,o
Oxide of ailver	AgO	Ag <sub>2</sub> O
Alumina		$\Lambda i_4 O_2$
Sesquiuxide of iron	Fe-O	Fe <sub>4</sub> O <sub>3</sub>
Sulphide of potassium	K8	Kas
Сумподен	C.N	K <sub>2</sub> S CN
Carbonic oxide	C <sub>2</sub> N CO	čö

Beside the change in the equivalents described above, Gerhardt introduced a new theory of the constitution of acids and salts. According to the present theory, nitrate of silver, for instance, would be formulated thus, —AgO.N<sub>2</sub>O<sub>2</sub>, being regarded as a compound of nitric acid and oxide of silver; but on comparing this salt with its corresponding haloid, chloride of silver, a discrepancy occurs, which vanishes, if we consider nitric acid as existing in nitrate of silver, to consist of N<sub>2</sub>O<sub>2</sub>, instead of N<sub>2</sub>O<sub>3</sub>. From numerous other anomalies, occurring chiefty in From numerous other anomalies, occurring chiefly in organic bodies, Gerhardt came to the following conclu-sions:—I. That every uncombined acid necessarily con-tains one or more equivalents of hydrogen. 2. That the bodies hitherto regarded as dry acids possess no acid pro-perties until united with hydrogen and oxygen. 3. That salts are formed by the solution of one or more atoms of hydrogen by one or more atoms of a metal, or some substance acting as such. Thus, the bodies known as NO<sub>2</sub>.SO<sub>2</sub>CO<sub>2</sub>, are neutral and inert until united with an equivalent of water, when they form respectively nitric, sulphuric and carbonic acids.

	Old view.	New view.
Nitric acid	N.O.	H,N,O
Sulphuric acid	80.	H.SO.
Carbonic acid	00.	H.CO.
his brings the haloid and o	xyacid salts	

This brings the haloid and oxyacid salts into perfect harmony, both being regarded as acids in which the hydrogen is replaced by a metal, or some substance acting as such;—thus: HCI + K - KCI + H  $H_2SO_4 + K_2 - K_2SO_4 + H_3$ 

$$HC1 + K - KC1 + H$$
  
 $H_0SO_4 + K_0 - K_0SO_4 + H_0$ 

or, in other words, the acid is regarded as the nitrate, sulphate, or carbonate of hydrogen, and the salt formed, as the nitrate, sulphate, or carbonate of the metal;—hence, the terms nitrate of potassium, sulphate of sodium, &c., used by the followers of Gerhardt, instead of nitrate

of potash, sulphate of soda, &c.

Gér'icault, Jean Louis Theoder Ander, a French historical and genre painter, a at Rouen, 1790; was the pupil of Guerin. His peculiarities are well illustrated in the great and magnificent picture of the Shippwreck of the Medusa, painted in 1819, and now in the Loure at Paris. G. died almost at the threshold of his pro-

at Paris. G. died almost at the threshold of his pro-mised great career, in 1824.

Ser'ixim and E'bal, two mountains of Samaria, forming the opposite sides of the valley which contained the ancient city of Shechem, the present Nabulus. The valley which these mountains inclose is about 200 or 300 paces wide, by above 3 m. in length; and Mount Ebal rises on the right hand and Gerizim on the left hand of the valley, which extends W.N.W., as a person approaches Shechem from Jerusalem. It was on Mount Ebal that God commanded to be reared up an altar and a pillar inscribed with the law; and the tribes were to be assembled, half on Ebal and half on Gerizim, to hear the fearful maledictions pronounced by the Levites upon the fearful maledictions pronounced by the Levites upon all who should violate the obligations of the sacred code,



VIEW OF NABLUS AND M OUNT GERISIM PROM THE N.W.

and the blessings promised to those who should observe and the blessings promised to those who should observe them. The tribes which responded with simultaneous "amens" to the curses were to be stationed on Mount Bhai, and those who answered to the blessings, on Mount Gerizim. This imposing ceremony—perhaps the most grand in the history of nations—could not have found a more fitting scene; and it was duly performed by Joshua as soon as he gained possession of the promised land. [Deul. xxvii.; -Josh. viii. 30-35.]
Gerim, s. (jürn.) [Lat. germen, from Gr. gen, root clared themselves determined to sever their connection

of gigeneni, to produce.] (Bot) The eye of a bud, or any growing point; or an embryo,
—Origin; first principle; that from which anything springs; as, the germ of toleration.
Germ Theory. See SECTION II.
Germain., & Same as GERMANE (q.v.).
Germain., & Lithir-min'), the name of many towns, villages and parishes in France, with pop. under 4,000.
Germain-em-Laye., (St.); a town of France, dep. Seine-et-Oise, on a hill adjoining the Seine, 6 m. N. of Versailles, and 9 W. by N. of Paris. Manuf. Horse-hair goods and leather. It is chiefly noted for its noble place, originally built by Charles V. in 1370; reconstructed by Francis I.; and embellished by many succeeding sovereigns, especially Louis Quatorze (XIV.). who added to it the extensive pavilions, and constructed who added to it five extensive pavilions, and constructed the fine terrace which extends from it, with a breadth of nearly 90 feet., for a distance of 1½ m., between the forest of 8t. Germain and the Seine. That monarch



Fig. 1148. - PALACE OF ST. GERMAIN-EN-LAYS.

Fig. 1148. — PALAGE OF ST. GERMAIN-EN-LATE. afterwards became disgusted with, and abandoned the palace, because, it is said, he could see St. Denis, the burial-place of the French kings, from its windows, Charles IX. and Henry II., as well as Louis XIV. were born in this palace. It was the residence of Midle. de la Vallière (q. v.); and James II., of England, with most of his family, passed their exile, and died in it. It is now used as barracks and a military prison. Php. 19,478. — The FOREST OF ST. GERMAIN, one of the finest of its kind in France, extends N. of the town, enclosed W. N., and E. by the Selne. It is 9 m. in length by 3 in breadth: covers an extent of 8,865 Eng. acres, and is traversed by roads, the aggregate length of which is not less than 1,180 miles.

and is traversed by roads, the aggregate length of which is not less than 1,180 miles.

Ger'man, a. [Fr. germain; Lat. germanus, probably from germen, for gerimen, an offshoot, a bud, from gerere, to bear.] Of the same germ or stock, as brothers or sisters that have the same father and mother.—

Country-german are the sons or daughters of brothers

or sisters, or first cousins. or unters, or aret cousins.

Ger'man, a. [Probably from ger, corruption of wehr
war, and man.] Pertaining or relating to Germany.

A. A native or inhabitant of Germany. — The German

language. ler man, in *Illinois*, a flourishing township of Rich-

Ger'man, in Indiana, a township of Bartholomey

A township of Marshall co.

—a township of 8t. Joseph co.

—A township of 8t. Joseph co.

—A township of Vanderburg co.

Ger'man, in Iowa, a township of Grundy co.

—A township of Kockuk co.

Ger'man, in New York, a post-township of Chenango

German, in Ohio, a thriving township of Allen co.

-A township of Auglaize co. -A township of Clarke co.

A township of Darke co.

A township of Fulton co.

—A township of Harrison co.

—A township of Holmes co.

—A township of Montgomery co.

—A township of Montgomery co.

Ger'man, in Pennsylvania, a township of Fayette

Co.

German, in W. Va., a p.-o. of Braxton co.

German Cath'olica, n. pl. (Eccl. Hist.) The name
of a religious sect which has recently been formed in
Germany, by secession from the Roman Catholic
Church. It originated in a proclamation of a special
pilgrimage and service of Bishop Arnoldi, of Treves, to
the "Holy Cost" of that city, to be accompanied by remission of sins. This proceeding called forth a letter from
Johannes Ronge, an excommunicated priest of Silesia,
dated October 1, 1844, characterizing it as an idolatrous
festival, and calling upon the bishop to suppress it. A
short time before, another Catholic priest, Johann
Czerski, had seceded from the Romish Church, and attempted the foundation of an independent Christian Czerski, had seceded from the Romish Church, and attempted the foundation of an independent Christian congregation. The letter of Ronge met with many sympathizers, and a union having been effected between Ronge and Czerski, a number of congregations sprang np in a very short time, calling themselves German Catholics. The "Confession of Schneidemühl," drawn up by Czerski, Oct. 19, and presented to the government Oct. 27, 1844, rejected as unscriptural, and as a merely human ordinance, the reception by the priests alone of the Lord's supper in both kinds; the canonization and invocation of the saints; indulgence and purgatory; fasting; the use of the Latin language in divine service; mass and vespers; the cellbacy of the priests; the prohibition of mixed marriages; the supremacy of the Pope, and other points. They de-

with the Pope, to receive the Lord's supper in be kinds, and to recognize the Bible as the only rule faith. They retained the seven sacraments and the mass, which they celebrated in the vernacular tongue. The "Confession of Breslau," which set forth the view of Ronge, proceeded farther than that of Schneidemühl. of Ronge, proceeded farther than that of Schneidemuni,
— claiming free investigation of the Bible, and freedom
of belief for every individual member. It regarded as
essential doctrines only, — belief in God, the Creator
and Governor of the world; in Jesus Christ, as having,
by his doctrine, his life and death, redeemed men from
ain and nisery; and in the influence of the Holy Spirit
upon earth. Of the sacraments of the Catholic Church sin and nisery; and in the innuence of the holy Spirit upon earth. Of the sacraments of the Catholic Church it retained only baptism and the Lord's supper. A council met at Leipsic on the 22d of March, 1845, in which Ronge, Czerski, and the delegates of twenty congregations, took part; and a new creed was adopted, based principally upon the Confession of Breslau. After that time the principles of German Catholicism apread very rapidly, being adopted not only by many. Roman Catholic priests, but also by many Protestant elergymen and laymen. At the end of 1845, they comprised about 300 congregations. They, however, met with much opposition from the various governments, and many vexations and restrictions were imposed upon them in Prussia, Saxony, Bavaria, and other States. A more serious source of disquiet, however, arose among themselves. It has been seen that the tendency of Czerski was towards the doctrines and rituals of the Church of Rome; Ronge, on the other hand, approached Church of Rome; Ronge, on the other hand, approached towards rationalism. A series of dissensions, in this way, arose among the body, which was very prejudicial to their progress. An attempt was made to unite both parties in an assembly at Rawies, in the month of February, 1846, in which Czerski, Ronge, and other took part, but it had not the desired effect. The took part, but it had not the desired electric accongregations sympathizing with Czerski met at Schneidemühl in the month of July in the same year, in order to effect a closer organization among themselves; but, from the great differences of opinion that prevalied among them, they were unable to come to any agreement. Nor were the followers of Ronge to any agreement. Nor were the followers of Ronge more successful in their attempts to effect the same object. A council was held at Berlin, in May, 1847, attended by deputies from 151 congregations, and new efforts were made to accomplish a union of the two parties, but with little better success. The revolution of 1848 was favorable to the German Catholics, and generally. erally led to the removal of some of the civil restric-tions to which they were subjected. A conference was held at Köthen in 1850, at which an alliance was proheld at Köthen in 1850, at which an alliance was proposed with the free congregations which had formed themselves by secession from the Protestant churches; and a diet was fixed for 1852; but it did not meet. Since that time German Catholicism has been on the decline, parily on account of internal dissensions, and partly from oppressive measures adopted against them by the governments. Many congregations have been disbanded, while others have gone over in a body to the Protestant Church. A conference was held at Gotha, Sept. 10, 1858, at which, however, only forty-two representatives were present. The history of G. C. is fully given by Kampe, Geschichte der religiösen Beorgungen der neueren Zeit, (vol. iii., Leipsic, 1856.)
Germann'der, n. (Bot.) See Truckium.
Germann'der, n. (Bot.) See Truckium.
Germann'der, n. [Bot.] The fitting; relevant.
"The phrase would be more germans to the matter."—Shala.

"The phrase would be more germane to the matter." German Flats, in New York, a township of Herki-

Germa'nia, an extensive country of ancient Europe errma'mia, an extensive country of ancient Europe, situate E. of Gaul, from which it was separated by the Rhine. Its inhabitants were warlike and uncivilized, and always proved a watchful enemy against the Romans. Casar first entered their country; but he rather checked their aggressions than conquered them; and his successors, or their generals, also attempted to chastise their insolence. Tactitus has delineated their manners and customs with the greatest nicety, and has accompanied his description with the reflections of a philosopher.

companies in secondary consistency of Potter co. German'nia, in Pennsylvania, a P. O. of Potter co. German'nia, in Wisconsin, a post-office of Marquette co. German'ic, a. [Lat. Germanicus, from Germania, Germany] Pertaining to Germany; as, the Germania.

Confederation. (Hist.) See Gernant.
German'ic Confederation. (Hist.) See Gernant.
German'icus, The Dausus Nero, son of Drusus Nero
and the younger Antonia, B. at Rome about 16, B. c. He
was nephew and adopted son of Tiberius, and married
Agrippina, grand-daughter of Augustus, while he was yet quite young. Augustus intrusted him with impor-tant commands in Dalmatia and Pannonia, and raised him to the consulate a. D. 12. On the death of Augusnim to the consulate A.D. 12. On the death of Augustus (14), he had to repress a terrible revolt of the Germanic legions, who wished to salute him emperor. He refused the title with indignation, and forced the soldiers back to their duty, but Tiberius saw in him from that time a dangerous rival. Being intrusted soon afterward with the command of the war against the Germans, he beat Arminius (Herrman), their chief, A. D. 16, mans, he beat Arminius (Herrman), their chief, a. D. 16, retook the eagles lost by Varus, and, by various feats and exploits, carned for himself the surname of Germanicus. Tiberius, jealous of his success, recalled him to Rome, and then sent him to the east. After pacifying the troubles in Armenia, and giving a king to that country, he had a difficulty with Piso, governor of Syria, and an intimate friend of Tiberius, who, according to the current belief both then and since, had incited the current belief both then and since, had incited the proceeding the street of the proceeding in earlier Piso from his provention. quarrel. He succeeded in eusting Piso from his prov

ince, but died himself very soon after, viz., A. B. 12. When dying, he asserted that he had been poisoned, and urged his friends to avenge him. Agrippina, his widow, carried his sahes to Italy, and accused Piso of his murder, but the latter anticipated punishment by committing suicide. G. was universally beloved for his goodness, generosity, justice, and talent. He was much addicted to literary pursuits, and has left us a translation of the Phenomena of Aratus. Tacitus makes him the heroof his Annates. His son Caius Cæsar Caliguia, afterwards emperor of Rome, did no honor to his memory.

Germanism, n. An idiom peculiar to the German

German Language and Literature.

Deutsche Sprache und Literatur.

The German Deutsche Sprache und Literatur.] The German language is a branch of the Indo-Germanic class of language, which separated from the parent stock at a very early period. The Germans called the language Deutsch. or Teutsch, from their ancestors, the Teutons. In its widest sense the Teutonic consists of two branches,—the Northern, or Scandinavian, and the Southern, or German. The latter has three subdivisions,—the Eastern or Gothic, the High German, and the Low German. The Gothic is the carliest of these of which we possess any or Gothic, the High German, and the Low German. The Gothic is the carliest of these of which we possess any literary remains, there being still in existence portions of a translation of the Bible into Gothic made by Bishop Ulfilas in the 4th century; but we possess nothing of the High or Low German till the 7th century. Hence many persons have been led to regard the Gothic as the original source of the German; but, according to Max Müller, the grammatical differences between the two are of such a nature as to show that this was impossible. "There never was," he says, "a common uniform Tectonic language, nor is there any evidence to show that there existed at any time a uniform High German or Low German dialects are respectively derived." The Gothic language died out in the 9th century. The Low German (Platt-Deutsch) comprehends many dialects in the north or lowlands of Germany, as well as the Frislan, Dutch, and Flemish dialects. The oldest literary document of Low German on the continent is the Frisian, Dutch, and Flemish dialects. The oldest literary document of Low German on the continent is the Christian epic the Heljand, (Healer or Saviour.) which is preserved to us in two MSS. of the 9th century. There are traces of a certain amount of literature in Saxon or Low German from that time onward, through the Middle Agea, up to the 17th century, but, little of that literature has been preserved; and after the translation of the Bible by Luther into High German, the fate of Low German literature was sealed. High German (Hoch-Deutsch) has been the literary language of Germany ever since the days of Charlemagne. Its history may be traced through three periods,—the Old High German, extending from the 7th to the 12th century; the Middle High German, from the 12th century to the time of Luther; and the New High German, from the time of Luther; and the New High German, from to the time of butter; and the New High terman, from Luther down to the present time. In the present day there are various dialects of the German sp.ken in di-ferent parts of the country; as the Suabian, Bavarian, Franconian, Saxon, &c. (See Müller's Lectures on the Science of Language.) The earliest existing monument of German literature is the translation of the Bit-le into-lethic har Ulifles beach allued to the first the C. this of German literature is the translation of the Bil·le into Gothic by Ulfilaa, already alluded to. After the Gothic language ceased to be spoken, nothing was known of this work until toward the close of the letter cease, when a portion of it—namely, the Four Gospels—was found in the abbey of Werden. The letters are in silver upon purple vellum; whence it is called the Codex Argentus, and it is now preserved in the library of Upsala. Afterwards, in 1818, the Epistics of St. Paul, of the same work, were discovered by Cardinal Mai and Count Castiglione in the monastery of Bobbio, in Lombardy. Of the translation of the Old Testament only a few lines remain. The earliest literature of Germany is known to us only by report or tradition. According to Tacitus, remain. The earness increasure of veriming is answer to us only by report or tradition. According to Tacitta, the Germans celebrated in songs, which were old even in his time, the praises of their national deity Tuisco, and his son. Mannus, as well as the deeds of their great and his son Mannus, as well as the deeds of their great heroes. When the nations began to migrate, heroes of greater and greater renown march into the scene of song, and the historic forms of Attila, Theodoric, Gün-ther, and others, appear. The two most ancient Ger-man posms are the Lay of Hildebrand and Hadabrand, and the Prayer of Weissenbrus, which belong to the 8th century. Many of the legends of this period were after-wards embodi sli in the lay of the Nibelsages, the most celebrated production of German mediseval poetry. The introduction of Christianity, arcraiged an important introduction of Christianity exercised an important change in the early literature of Germany. The Latin language came to be that of the church, the court, and the law. A kind of religious poetry, after the model of change in the early literature of Germany. The Latin language came to be that of the church, the court, and the law. A kind of religious poetry, after the model of the Roman poets, was introduced in place of the ancient heroic and mythical songs, and was fostered by the court as well as by the clergy. Charlemagne, indeed, was fondly attached to the ancient lays of his fatherland, and caused a collection of them to be made; but his successor, Louis the Pious, looked upon everything German as heathenish; and the consequence was, the abmost total destruction of every poem which bore a special mythological character. The Heljand, a poem giving the life of Christ, was written at the instance of Louis the Plous in the 9th century, and is one of the noblest productions of poetic genius that has ever appeared. Thirty years later appeared another sacred poem, known as the Arist, composed by Otfried, a Benedictine monk of Weissenburg. Another poem of this period is the so-called Ludwigslied, a poem in honor of the victory of the Frankish king, Louis III., over the Normans in 8%. The other poetical remains of this period are chiefly of a religious nature, and, together with the contemporary prose literature, are not worthy of notice. Germany,

Digitized by GOOQI

by losing its French and Italian provinces, had become oy loang its French and talkin provinces, in a become Germany again; and a desire to cultivate the national literature again began to manifest itself. The monks of 8t. Gall, Passau, and other places, translated some of the German epics into Latin verse; such as the poem of the Nibelangen, of Wilther of Aquitaine, and of Rudo's Lied, the last two of which have been preserved and pub-lished. The stories of the fox, the bear, and other anithe Nibelangen, of Wolther of Aquitaine, and of Rudo's Lied, the last two of which have been preserved and published. The stories of the fox, the bear, and other animals, so peculiar to German poetry, attracted the attention of the monks; and it is owing to their Latin translations that this curious style of poetry can be traced back so far as the 10th century. The 11th century presents almost an entire blank in the history of German literature. The old High German had become a literary language chiefly through the efforts of the clergy, and its character was pre-eminently clerical. The Crusades, however, put an end to the clerical element in the literature of Germany. The chivalrous emperors of the Hoenstauffen dynasty formed a new railying point for all national sympathies; and the interest of the people was with the knight, not with the priest. Poetry changed hands, and the royal courts and knightly castles offered a new and more genial home to the poets of Germany than the monasteries of St. Gall and Fulds. Middle High Ger., the language of the Suabian court, became the language of poetry, and the poets took their inspiration from real life, though they borrowed their models from the romantic cycles of Brittany and Provence. The stories of Arthur and his knights, of Charlemagne, of Achilles, Eness. and Alexander, imported by French and Provencyal knights, served them as their first models; and while foreign influence is seen in every branch of German poets. The German Minnedingers, in particular, were far from being imitators of the Trouveres and Troubselours. Poets made bold for the first time to express their own feelings, their joys, and sufferings, and epic poetry which flourished at the castles was soon adopted by the lower ranks, and the poems of the Nibelangers and Gudrum, as we now possess them, were composed at that tune by poets who took their subjects, their best thoughts and expressions, from the people of this period — the national, or people's poetry, the production of strolling minstrels; and Hobenstaussen, in the latter half of the 13th cent., was the death-blow to therman chivalric poetry. Lyric poetry continued to flourish for a time; but it degenerated into an affected sentimentality and unworthy idolatry of the ladies. Didactic poetry, however, began to be cultivated with some degree of success. The middle classes, the burghers of the free cities of Germany, were now beginning to rise into power, and poetry again changed hands. It now passed from the abodes of princes and knights to the homes of burghers and the workshops of artisans; and instead of the Minneskinger, we have the Meistersünger, and their strains were more subdued, practical, and homely. Deatry became a trade, like any other, and guilds were formed, consisting of master-singers and their apprentices. Heinrich Frauenlob is called the first Meistersünger, and during the 14th, 15th, and 16th centuries, new prentices. Heinrich Frauenlob is called the first Meister-singer, and during the 14th, 15th, and 16th centuries, new guide or schools were formed in all the principal towns of Germany. The poetry of the 14th and 15th centuries is interesting historically, but is not otherwise of much value. The best songs of the period are those of Halb-suter and Veit Weber, celebrating the victories of Switz-erland over Austria and Burgundy. Attempts were made to revive the chivalric poetry of the Crusades, both in the beginning and towards the close of the 15th cen-tury, but without success. In the 15th century, prose-literature begins to flourish, and soveral local chronicles \$P\$Pear,—as well as works on jurisprudence, and some 

period, as Johann Hessius, composed their poetry in Latin; and, indeed, there came out from the universities at tendency to exait Latin above their mother-tongue, which was very prejudicial to the latter. The period before and after the Reformation was especially fruitful which was very prejudicial to the latter. The period before and after the Reformation was especially fruitful in satirical and allegorical works. One of the most remarkable of the former class was the "Ship of Fools" (Narrenschiff), by Sebastian Brant, a metrical satire on the follies of the age; and which was afterwards initated by Thomas Mürner, in his Narrenbechokürung (Conjuration of Fools.) The most able satirical and didactic poet of the 16th century was Johann Fischart, the author of numerous works; among which may be mentioned Flohatz, a remarkably witty poem on fleas; and a romantic poem, Das glückhafte Schiff. He has been called the German "Rabelais." Of the popular songs (Folkelieder) of this period, some have been much admired. The works of Hans Sachs, the poet and cobbler of Nuremberg, display a very remarkable degree of ferility, liveliness, and humor. A great poet, in the strict sense of the word, he was not; but he possessed an uncommon talent for mastering any given subject, and he was the most popular poet in Germany during that century. His works are numerous, and in all styles of composition, from the most tragic touch of feeling to the most comic turn of thought. This period produced several distinguished scholars and men of science; among whom may be mentioned Melancthon, Camerarius most comic turn of thought. This period produced several distinguished scholars and men of science; among whom may be mentioned Melancthon, Camerarius Classics and philology), Cornelius Agrippa, Theophrastus Paracelsus (mystical philosophy and natural history), Copenicus (astronomy), Leonhard Fuchs (botany and medicine), Conrad Gesner (botany and zoilogy), and Agricola (mineralogy). Towards the end of the 16th century, everything seemed drifting back into the Middle Ages: and then came the Thirty Years' War, which, in its consequences, was most disastrous to Germany. The physical and moral vigor of the nation was broken. We meet with no trace of originality, truth, taste, or feeling, in the poetry of that period, except, indeed, in the sacred poetry, many of the hymns of Paul Gerhard being still sung in the Protestant churches of Germany. A rage for everything foreign that then prevailed was utterly opposed to nationality or originality. Opits, the founder of the so-called Silesian school, is the true representative of the classical poetry of the 17th century. He founder of the so-called Silesian school, is the true representative of the classical poetry of the 17th century. He was a scholar and a gentleman, most correct in his language and versification, never venturing on ground which had not been trodden before by some classic poet, whether of Greece, Rome, France, Holland, or Italy. Literary so-cieties were formed at several of the courts of Germany, professedly for the improvement of the language and poetry of the country, after the model of those of Italy; but they were mere silly imitations, and produced little good. The "First Silesian School" is represented by men like Opits and Weekherlin, and is characterized as pseudo-classical. It was imitated in the north of Germany by Simon Dach, Paul Flemming, and a number of less gifted poets, who form the "Königsberg school." The chief heroes of the "Second Silesian school" are Hoffmannwaldau and Lohenstein, whose compositions are more ambitious, bombastic, and full of metaphors than those of Opitz; but also more disappointing. There were some independent poets who kept aloof from either were some independent poets who kept aloof from either are more ambitious, bombastic, and full of metaphors than those of Opitz; but also more disappointing. There were some independent poets who kept aloof from either of these schools, as Friedrich von Logan, Andreas Gryphius, and Moscherasch. Among the other works of this period, we may mention the Simplicissimus, a novel giving a lively picture of German life during the Thirty Years War; the patriotic writings of Professor Schupp; the historical works of Puffendorf; the pictistic sermons of Spener and of Franke, the founder of the orphan school at Halle; Professor Arnold's ecclesiastical history; the first political pamphlets of Prof. Thomasius; and among philosophers, Jacob Bæhme at the beginning, and Leibnitz at the end of the century. The 18th century was marked by a revolution in the literature and modes of thought in Germany. Johann Christoph Gottsched, professor of eloquence at Leipsic, in the early part of this century, exercised great power as a critic, and was the means of defeating the Second Silesian school. He was, however, an advocate of French models in art and poetry; and it was through the opposition which he roused by his Gallomania, that German poetry was at last delivered from the trammels of that foreign school. Gottached and his friends at Leipsic were opposed by Bodmer and his friends in Switzerland, who advocated the English style of literature; and a long literary warfare was carriod on. Fora lor-period Gottsched and his party prevailed: but at length public opinion became too strong against them, and the dictartic lived to become the laughing-stock of Germany. literary warfare was carried on. For a lor' period Gotteched and his party prevailed: but at length public opinion became too strong against them, and the dictator lived to become the laughing-stock of Germany. Among those who distinguished themselves as advocates of the new school were Gärtner, Gellert, Kärtner, Adolf Schlegel (father of the brothers Schlegel), Kleist, and Gleim. Of greater influence, however, than any of these here named, were Hagedorn of Hamburg, whose fables and songs have immortalized him in Germany; and Albert von Haller, the physiologist, remarkable also as a writer of descriptive and didactic poetry. During this literary struggle, the great names of German poetry sprang up, — Klopetock, Wieland, Lessing, Herder, Gethe and Schiller. Klopetock's Messiah made a profound impression by its mystic, devont, and rapturous faith, as well as a work of art. The fashionable and elegant portion of society was attracted by the semi-Grecian, semi-Parisian muse of Wieland. But it was reserved for Lessing to give a new direction to German literature. He established a new school of criticism, and exerted a powerful influence upon the progress of the drama, by unfolding, for the first time, to the German mind, all the beauty, originality, and vigor of Shakspeare. His tragedy Emilia Galotti, his comedy Minna

con Barnheim, and his philosophical drama Nathan der Weise, are models of dramatic composition. Herder, a man of vast learning as well as of poetic genius, exerted a strong influence upon the poets of his time, and contributed powerfully to promote the study of Oriental poetry, as well as the ancient popular songs of different nations. The crowning work of his life is his Ideen sur Philosophie der Geschichte der Menschiett. Another great impulse was given by Winckelmann, whose writings on the remains of ancient art modified all the old theories of the beautiful. Gethe came forward in 1773 with his Getz von Berlichingen, which was greeted as the commencement of an entirely now period in German dramatic literature. In 1781 appeared Schiller's first piece, Die Rüuber (the Robbers), followed by Fiezco and Cable und Liebe. These impassioned tragedies gave a new impulse to the literary excitement. His Don Carlos (1784) shows greater moderation, and opens a long series of tragedies, in which the highest aspirations for literty and humanity are interwoven with historical associations expressed in language of the most classic purity It was only, however, after Schiller's union with Gethe (1795) that, by their combined labors, German literature was brought to that classic perfection which, from a purely local, has since given to it a universal influence. Schiller, by his enthusiastic and sympathetic eloquence and tenderness, became the favorite of the people; while Gethe, with his many-sided intellect and boundless sensibilities, controlled by a strong will, became the acknowledged sovereign of German literature. The philosophic spirit of this age also gave birth in rapid succession to the master minds of Kant, Fichte, Hegel, and Schelling. Jean Paul Bichter is a peculiar and powerful writer of this period, whose works, though charactured the controlled whose works, though charactur sion to the master minds of Kant, Fichte, neget, and Schelling. Jean Paul Richter is a peculiar and power-ful writer of this period, whose works, though charac-terized by obscurity and irregularity, are frequently lighted up by flashes of humor and brilliant gems of thought and feeling. Novalis (von Hardenburg) is an-other strangely-constituted writer, whose works, though inti writer of this period, whose works, though charkot terized by obscurity and irregularity, are frequently lighted up by flashes of humor and brilliant gems of thought and feeling. Novalis (von Hardenburg) is another strangely-constituted writer, whose works, though few and fragmentary, contain scattered thought of such wisdom and genius as to give them a high place in the literature of his country. Ludwig Tieck, a more voluminous and connected writer than his friend Novalis, was also much more of a creative genius. His dramas, and collection of ancient fairy and popular tales, often reflect the romance of mediseval poesy with much beauty and genius, but with a mystic feeling bordering almost on superstition. To the so-called Romantic school belong the brothers Schlegel, — August Wilhelm, author of various critical and sesthetical works, and a metrical translation of Shakspeare; and Friedrich, known as a writer on the history of ancient and modern literature, and the philosophy of history. The other writers of that and the subsequent period to the present time are so numerous, that we can only afford to mention a very few of them. In almost every department of literature, the writers of the present or last century, in Germany, occupy a chief place. In philosophy, the names are numerous; but they are all eclipsed by the great names of Kant, Fichte, Schelling, and Hegel, and generally belong to one or other of these schools. (See Granax Panusospart.) In theology, Schleiermacher, Paulus, Bretschneider, Reinhard, Eichhorn, Hengstenberg, and a host of others, have done good service in the field of biblical inquiry. In philosopical and critical inquiries, occur the names of Wolf, Hermann, Bacekh, Ottried Müller, W. von Humboldt, the brothers Grimm, Frans Bopp, Bunsen, Benecke, Lachmann, Haupt. In history, Johannes von Müller, Heeren, Wachler, Friedrich von Raumer, Ranke, Lappenberg, Pertz, Niebuler, Howald, Grilparzer, Rupach, Grabbe, Immermann. Guizhe, Wagner, Desides the names already mentioned, are Arndt, Körne

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forms retained their place here long after they had been formaken in France and England. The writings of Lord Bacon, of Descartes, and of Spinoza, which did so much for philosophy in their own countries, had but little influence in Germany. It was more particularly the writings of Locke which first excited any considerable degree of attention. His empiricism, which sought to set up psychology as a regulator of metaphysics, aroused the opposition of Leibnitz, the first German that made an epoch in the history of the new philosophy, and who, from the influence which he exerted on all sides, must be regarded as the originator of the philosophic spirit in Germany. Yet the fundamentals of his system—monodology, predstablished harmony, the doctrine of innate ideas—wanted a strong systematic basis, being rather genial hypotheses than regularly established promonodology, presstabilished harmony, the doctrine of innate ideas—wanted a strong systematic basis, being rather genial hypotheses than regularly exabhished propositions. This defect Chr. Wolf set himself to remedy, and sought to establish a system of philosophy complete in all its parts, according to the rules of strict logic; but in so doing, he set aside the very doctrines which most particularly characterized the system of Leibnits. The wide circulation of his writings, the high esteem in which he was held by his contemporates, the great number of his scholars and adherents, show the great influence which Wolf exerted for a time. He was destined, however, to outlive his reputation, for there soon came on a period of philosophical deadness in Germany, during which a kind of eclecticism, devoid of principle, prevailed,—the so-called "philosophy of common sense," borrowed from the English and French philosophers of the 18th cent. Nevertheless, there also existed great mental activity of certain kinds. Poetry, the reform of education, politics, and religious enlightenment, deeply occupied men's minds; old customs in family and political life were shaken, and a great and thorough movement was preparing itself in the quiet. With Emmanuel Kant begins the more modern period of German philosophy; and although, at first, his Critique of Pure Rasson (Kritik der reinen Vernanyft) was in danger of being overlooked, yet, after a time, this and the principal of his other critical works, which, after long preparation, made their appearance in rapid succession, gave a powerful stimulus to scientific research. The cause of this lay, not only in the novelty and comprehensiveness of his investigations, but in that they exactly corresponded with the tendencies of the age at the time. Excluding all dogmatism and fanaticism, nationaling the independence of speculative inquiry, refertime. Excluding all dogmatism and fanaticism, main-taining the independence of speculative inquiry, refer-ring all theoretical speculation to the accessible region taining the independence of speculative inquiry, referring all theoretical speculation to the accessible region of experience, the elevation of the moral to the highest and ultimate of all human endeavor,—these in general constitute the main features of his philosophy, which he wished to be cultivated rather with a view to its social than to its mere philosophic importance. He also entertained the hope that, by means of critical investigations into the nature of the human mind, it might be possible to reconcile the opposing systems of empiricism and rationalism, of sensualism and spiritualism, &c., and to discover a series of comprehensive principles to which the controversies of the philosophic schools might be referred in the last instance. That this hope was disappointed was owing to this, that Kant sought to support the old metaphysic of the schools by a psychology which itself rested on the basis of that metaphysic. Besides, there was wanting in the heyday of Kantism any sufficient point of unity for the several parts of philosophy. Of this want K. L. Reinhold was the first to become conscious; and scepticism, as in Schulise's Anexidemus, and dogmatism, in the writings of Eberhard and others, raised their feeble opposition to the now trumphant criticism. J. G. Fichts believed that he had found that absolute point of unity which the criticism of Kanti had indicated in the feet of exeminance. triumphant criticism. J. G. Fichts believed that he had found that absolute point of unity which the criticism of Kant had indicated, in the fact of consciousness. Fichte, travelling on the path which Kant had pointed out, changed the half-idealism of Kant into a complete idealism, while he declared the "Bgo" to be, not only the bearer and source of knowledge, but also the only reality, the representation and act of which is the world. In the Ego, knowing and being were identical; it was at once the principle of existence, and knowledge and nature appeared only as the reflex of its absolute activity. With this idealism began a kind of revolutionary excitement among the philosophic minds of Germany, which contrasted strongly with the quiet and sophic literature became overwhelming, and the public sophic literature became overwhelming, and the public excitement was general for twenty or thirty years. The meteors which made their appearance in the philosophic heavens of Germany, for the most part disappeared as suddenly as they had blazed forth. Schelling was the first to exert a more general influence, and changed the idealism of Fichte, under the influence of Spinoza (who had been again brought into notice by Jacobi), into the so-called philosophy of identity. This system set out originally with the assertion that, as Fichte has deduced originally with the assertion that, as Fichic ana deduced nature from the Ego, so, by reversing the process, the Ego may be deduced from nature; that both forms of philosophy flud their basis in the absolute, as the identity of all opposites,—the ideal and real, subject and object, spirit and matter. In order to carry out this assertion, Schelling assigned intellectual intuition as alone sertion, Schelling assigned intellectual intuition as alone corresponding to the absolute; yea, as representing, and identical with, the absolute itself. The organ of this intuition was called reason and, as such, was opposed to the reflection of the understanding, which was held to be quite incapable of comprehending absolute identity. The relation of the actual phenomenal world to the absolute was held to consist in this, that the latter represents itself in a multiplicity of appearances, steps out of "indifference" into difference, manifests itself in the latter, &c. He sought to demonstrate this identity

in non-identity, and non-identity in identity,—especially, Ger'mantewm, in Tonnessee, a post-town of Shelly with regard to natural philosophy in special cases, in which the highest merit to which he and his followers are entitled is the having opposed the empiricam of Germantewm, in Virginia, a village of Bath eo., also have another than the computation of the same have a line from the Warm Springs.

A village of Fauquier co., abt. 95 m. N. by W. of Richmantewn, in Virginia, a village of Fauquier co., abt. 95 m. N. by W. of Richmantewn, in Virginia, a village of Fauquier co., abt. 95 m. N. by W. of Richmantewn, in Virginia, a village of Fauquier co., abt. 95 m. N. by W. of Richmantewn, in Tonnessee, a post-town of Shelly village of Shelly co., about 15 m. E. of Memphis. in non-identity, and non-identity in identity,—especial vases, in which the highest merit to which he and his followers are entitled is the having opposed the empiricism of mere observation and computation in natural investigations, and to have contributed to the awakened interest in the contributed to in the natural sciences. For in contemning experience and reflection, occasion was also afforded to a fanciful mode of speculation, which frequently had nothing further in common with science than the name, and on mode of speculation, which frequently had nothing further in common with science than the name, and on his account many dark opinions in the regions of poetry, religion, and social life came to unite themselves with the philosophy of Schelling, and which often led to the most strange aberrations into romanticism, mysticism, and a tendency to Catholicism. In the direction indicated by Fichte and Schelling, the philosophy of Hegel also asserted itself, and attempted to develop in regular succession the contents of the intellectual intuition by the dialectic method. He indeed threw off the lawless play of fanciful combinations; but he sought for the expression of speculative thought, not in those laws of the connection of thought which have been recognized for thousands of years, but in a dialectic, the essence of which consists in the analysis of all the established principles of thought, and whose process consists therein that every conception generates out of itself its opposite, and uniting this with itself, inwardly enriches itself, and in this way proceeds to still higher stages. This method pretended to be identical with the thing itself; Hegel, with enduring perseverance, sought to carry out through the whole field of philosophic inquiry, and divided his system into the three provinces of logic, the philosophy of nature, and the philosophy of mind. While the systems as bove mentioned form a tolerably straight line of progress, there arose certain to the reysems as that of J. F. Herbart, in opposition to the idealthe philosophy of nature, and the philosophy of mind. While the systems above mentioned form a tolerably straight line of progress, there arose certain other systems, as that of J. F. Herbart, in opposition to the idealsm of Fichte, and which took a direction quite contrary to the philosophy of the time. Herbart, Schelling, and Hegel are the only thinkers that can claim to have exerted any general influence since the time of Kant. Among the numerous other thinkers of this time, who were chiefly occupied in defending or remodelling the older systems, we may mention Krug, Fries, and others, who were employed in the development of the Kantean system; Stoffens, Oken, Schubert, F. von Baader, and Ezchenmayer, who were employed chiefly in physical researches; those who attempted to exhibit systematically the philosophy of Jacobi; the different attempts to bring back philosophy to an empirical psychology; the poculiar speculative attempts of Schleiermacher, J. Wagner, Krause, Weisse, the younger Fichte, Branias, E. Reinhold, A. Trendelenburg, II. litter, A. Gunther, and others; the different tendencies within the Hegelian school; and, finally, the relation which Schelling latterly took up to his own earlier teaching, as well as to that which had been developed out of them. In the same proportion in which during the last fifty years the science of philosophy has been prosecuted in Germany, has also its history been studied; and indeed the Germans were the first who sought to comprehend and represent the history of philosophy as a whole, and to throw light upon the more important parts of it by valuable special treatises. The repid change in the philosoph throw light upon the more important parts of it by val-uable special treatises. The rapid change in the philo-sophic systems, and the extravagances which character-ized some of them, have often been much blamed and sopin systems, and the extravagances which characterized some of them, have often been much blamed and made sport of, and it seems, as a consequence of that, that there has been for some time a lull in the interest taken in speculation, and a sort of sceptical aversion to all proper philosophic inquiry has taken the place of the former enthusiasm. Yet the influence of philosophy in elevating and strengthening the scientific spirit in Germany has been great and beneficial; and there is almost no region of inquiry in which a deeper and more thorough mode of treatment is manifest as the fruits of this philosophic spirit.

Ger mann Silver, n. A useful silver-like alloy composed of copper, nickel, and sinc. Different proportions are given. One of the best is copper 51, xinc 30-6, nickel 18-4. It resembles the tuterag of the Chinese, and is used for table-articles and in electro-plating.

Ger mann Settlement, in West Virginia, a village of Preston co.

of Preston co. Ger'mansville, in Pennsylvania, a village of Lehigh

mantown. in Illinois, a post-village of Clinton Pop. (1890) 537.

The mantown, in Indiana, a village of Marion co.

Pop. (1890) 5.

Germantown, in Indiana, a village of Marion co.

A village of Wayne co.; the P. O. is E. Germantown,

Germantown, in Kentacky, a post-village of Mason co., about 70 m. N.E. of Frankfort.

Germantown, in Missouri, a village of Henry co.

Germantown, in North Carolina, a village of Hyde co., on Pamlico Sound, about 135 m. E.S.E. of Raleigh.

—A post-village of Stokes co., 110 m. W. N.W. of Raleigh, Also spelled Germantown, in New York, a post-town and township of Columbia co. Pop. (1890) 1,683.

Germantown, in Obio, a post-village of Montromery co., 45 m. N. of Cincinnati. Pop. (1897) about 1,600.

—A village of Washington co., about 16 m. N. N. E. of Marietta.

Germantown, in Penssylvania, a village of Fayette

Marietta.

Sermantown, in Penusylronia, a village of Fayette co., about 135 m. W. by 8. of Harrisburg.

A beautiful suburian section, since 1854 included within the chartered limits of Philadelphia, about 6 m. N.W. of the City Hall. Here, Oct. 4, 1777, a battle took place between the armies under Washington and the English unper Howe. After several hours of severe struggle the Americans were defeated, the loss being about equal on both sides. both sides.

mond. Germantown, in Wisconsin, a post-village and town

Germantewn, in Wisconsin, a post-village and township of Juneau co.

A township of Washington co.

German Walley, in New Jersey, a post-village of Morris co., abt. 17 m. W. of Morristown.

German Walle, in Issa, a post-office of Jefferson co.

Germanwille, in S. Curolina, a village of Edgefield dist., abt. 30 m. W. of Columbia.

Germany. [Ger. Deutschland, or Trutschland; Fr. Allemagne; It. Germania, Slavonia.] The word 6. is as uncertain in its derivation, as it is often vague and indefinite in its application. The Germans call themselves Deutsche, or Teutsche, and their country Deutschland. The first syllable of this name is derived by those who use this orthography from the verb deales, signifying to interpret or explain; so that Deutsch means the people who were intelligible to one another, in contradistinction to Walcole (Welsh), or Celtic nations, whose language they did not understand. Those who write Teutschland derive the name of the country from the god Teusco or Teut, mentioned by Tacitus. The Latin denomination of the country, which English speaking people have adopted, is supposed to be derived from the Roman manner of pronouncing the word schrangra, which signifies soldier—the character in which the Germans were mostly known to the Roman. The extent of country comprised under the term Germany has varied in every century since it first became which the Germans were mostly known to the Romans. The extent of country comprised under the term Grany has varied in every century since it first became known to the Romans. At the present time G. comprises the chief countries of Central Europe, and is bounded N. by Denmark and the Bultic; E. by Prussian Poland, Galicia, and Hungary; S. by Italy and Switzerland; and W. by France, Relgium, the Netherlands, and the North Sea or German Ocean.—Pol. Div. The ancient Germanic empire, dissolved in 1806, and reconstituted as a confederacy of 39 states (see below) in 1815, has verged again towards unity in consequence of the war between Austria and Prussia in 1866, which ended in the expulsion of the former from the Confederation leaving Prussia as the ruling power in Germany. Pensing their final union under one gover, the old states of the Confederation (excluding Austria) were ranged, provisionally, under two groups, as North Germany, and visionally, under two groups, as North Germany, and South Germany. N. Germany, consisting of 22 states, was under the absolute and entire leadership of Prussia, was under the absolute and entire leadership of Pressi, while S. Germany, numbering 5 states, formed a loosely connected group under the ascendency of Bavaria. The two divisions were bound together, to some extent, by treaties of alliance between Pruesia and the principal states of S. Germany,—Bavaria, Witriemberg, and Bades. By these treaties the contracting powers mutually quarantied the integrity of their respective territories; and it was further stipulated that, in case of war, the king of Prussia was to have the supreme command of the joint armice. After the close of the Franco-German campaign of 1870, the N. German Confederation was dissolved as a political organization, and the states which composed it, together with the S. German powers, aggregated into an autonomy—that of an enlarged reinstation of the old German Empire. The territory of the German mationality, prior to the formation of the old German Empire.

States.	Area.	Pop. 1869.	Capital.	Pop
N. GER. COMPEDERA'N.				
KINGDOM OF PRUSSIA.	1 1		ļ	i i
(including Hanover,	. 1		l	
Schleswig-Holstein-			ĺ	í
Lauenburg, Hesse-	1		ł	
Cassel, Hesse-Hom-			1	ı
burg, Nassau, and			ļ	1
Frankfort-on-the-			l	!
Main,)	137,066	34,478,210	Berlin.	102,437
Saxony,	6,777	2,430,795	Dreeden.	154,634
Mecklenburg-Sehwe-	1 .		·	
rin,	4,834		Schwerin,	25,663
Mecklenburg-Strellts,	997	97,976	Neu Strelitz,	A,301
Oldenburg,	2,417	346,906	Oldenburg,	14,236
Saxe-Weimar,	1,421	263,044	Weimar,	14,794
Saxe Altenburg,	500	141,436	Altenburg,	30,40
Saxe-Meiningen, Saxe-Coburg-Gotha,	933	180,335	Meiningen,	6,219
Brunswick,	816	168,735		19.671
Anhait.	1,526 869	371,311	Brunswick,	50,503
Waldeck.	486	197,041	Desend, Arelsen,	16.904
Lippe-Detmold.	445		Detmold.	1,978
Schaumburg-Lippe.	212		Bickeburg.	4.214
Schwarzburg-Rudol.	***	91,100	DAGKAGGI.	6,2114
stadt	340	75 116	Rodolstadt	6,953
Schwarzburg-Son-	, ·;	.0,	Sondersham-	
dershausen.	318	67,563	sen.	6,275
Reuss-Schleiz,	297	43,889	Schleis.	5.002
Reuss-Greiz,	148	88,097	Greis.	10.644
Hosse-Darmstadt,				20,010
(prov. Upper Hesse,)	1,570	257,973	Glessen,	30.131
Hamburg,	148	305,196	Hamburg.	224 974
Lubeck,	127		Labeck.	36,988
Bremen,	106	109,572	Bremen,	74,845
Total for N. Ger.	163,342	30,236,568		
SOUTH GERMANY.	ll			
Bavaria,	29,617	4,830,778		170.00
Würtemberg, Baden.	7,840	1,778,398	Stuttgart,	75,781
Hesse-Darmstadt, (ex-	5,904	1,948,030	Carlaruhe,	32,804
clud'g Upper Hesse).	1,670	564 601	Darmstadt.	31,369
Lichtenstein,	1,070		Lichtenstein.	31,300
mountempterin,		0,330	MORRISONE,	1000
Grand total	206,437	36,861,558		

The duchy of Limburg, and the grand-duchy of Luxenburg (q,v) belonged to the Germanic Confederation prior to its dissolution in 1806; they now belong partly



to the Netherlands, and partly to Belgium. The German Empire consists, at present, of 28 states, of which are kingdoms, 6 grand duchles, 5 duchies, 7 principalities, 3 free cities, and 1, Alsace-Lorraine, an imperial province (*Reichzland*). Berlin is its capital. The actual pop. and area of each of the 28 states are given in the Supplement to this work (see page 1147).—Ges. Desc. G. being composed of an agglomeration of states, each possessing individual features and characteristics of its own, we shall confine ourselves in this article to a generalized view of the country taken as a whole, refering the reader to each separate article, applying to its various component divisions under their proper and distinctive heads. The surface of G. is much diversified; its mountain tracts lie chiefly in the S.E. and E., while W. and N. the land spreads in spacious sandy plains, intersected by the rivers which run in the same direction from the higher lands toward the sea. — Mountains. The mountains, which may be considered as a N. branch of the great Alpine system of Europe, hear no comparison with the Alps in point of height, for the loftiest sunmits are not more than 5,000 ft. high; but they occupy a great space, and diverge in so many various directions through the country that it is difficult to trace them without the sid of a map. The Fichtelgebirge, however, in the N. part of Rayria may be considered as a the centre and nucleus are not more than 5,000 ft. high; but they occupy a great space, and diverge in so many various directions through the country that it is difficult to trace them without the aid of a map. The Fichtelgebirge, however, in the N. part of Bavaria, may be considered as the centre and nucleus of the mountains in Central Germany; and from it branch, in four directions, the ranges composing the watershed that divides the rivers of the Black Sea from the Baltic and the German Ocean. 1. The Eragebirge, diverging N.E., forms the boundary between Saxony and Bohemia, and has its scarped side S. towards the Eger. Its E. continuations, called the Suddengebirge, join the Carpathian ridge near the sources of the Oder and Visula. 2. The Bohemian Forest (Böhmeraeld) range separates Bohemia from Bavaria. It runs S.E. abt. 150 m., and taking a N.E. turn joins the Sudetengebirge near the sources of the Murch, in Lon. 169 40° E. These ranges, by their reunion, inclose an elevated plain, constituting the kingdom of Bohemia. 3. The Suabian Alps are a low range, branching off S.W. from the central point, and forming the watershed between the affluents of the Rhine and those of the Danube. S. they join the Black Forest range, the connection of which with the Alps is effected by a low chain skirting the Lake of Constance, and joining the main ridge at Mt. Septimer. 4. The Thuringian range runs N.W. from the Fichtelgebirge, and after a course of 50 m. divides into two chains, one running N. into Ilanover, and forming the Hurtz chain, the other running W. under various names, nearly as far as the Rhine, and separating its waters from those of the Weser and its tributaries.—Rivers, dc. The rivers of G. are numerous and important. The largest of these is the Danube, whose chief tributaries are the Altmithl, the Rash, and the Hurts chain, the other running W. under various names, nearly as far as the Rhine, which rises on Mt. St. Gothard, flows W. to Basle; navigable from this banks and vicinity. Hence the appellation of "castled Rhine," given

Fig. 1149.— CASTLE OF REBINSTEIN, (Hesse-Darmstadt.) feudal castle of Rheinstein, on the summit of a rugged and almost inaccessible rock, near Bingen. The Rhine's chief affluents, with the exception of the Moselle and the Mouse, are on the E. bank; of these the Neckar and the Mine are the E. bank; of these the Neckar and the Lippe in the Busblan Alps; the Lahn, the Ruhr, and the Lippe in the Hills of W. Germany. The Weser is formed by the juncture, at Münden, of the Werra and Palda, which rise in the Rhöngebirge; its course is N. W. till the juncture of the Allar, at which point it turns N.R., and falls into the German Ocean abt. 40 m. below Bremen. The Elbe rises on the N. side of the plateau of Bobemia, which, after receiving the Moldau and the Reyr, it leaves at Schandau, and enters the great N.W. plain of G., which it traverses to the German Ocean; its chief affinents from the S. are the Mulda and Saale from the Erzeebbirge, and its principal N. tributary is the Fig. 1149. — CASTLE OF RHEINSTEIN, (Hesse-Darmstadt,) the Erzgebirge, and its principal N. tributary is the Havel. The Oder rises on the N. side of the Carpathian

range, near its W. termination, and after a general N.N. W. course, and receiving many affluents, falls through the Great Haffe into the Baltic Sea. Besides these rivers, which of themselves constitute a most extensive rivers, which of themselves constitute a most extensive water-system, there are numerous lakes connected with the rivers; such as the lakes of 8. Bararia, and the many sheets of water lying on the low plain of N. Germany between the Oder and the Eibe. — Ctim., &c. The climate of G. is far less variable than the nature of its mountain system, and the range of latitudes in which it lies, would lead us to suppose. The vegetation of G. resembles, in its general character, that of the N. of France, — all the grains and fruits of the temperate zone having a flourishing development. In the 8. river-valleys the vine flourishes, and walnuts, chestnuts, and plums grow abundantly; but the severity of the winter often checks the growth of garden-shrubsand flowering-plants. The extreme cold of the winter, although it only lasts, in all its violence, in ordinary winters, for a few days, is ren-The extreme cold of the winter, although it only lasts, in all its violence, in ordinary winters, for a few days, is rendered often very destructive from the continuance of a less, but still considerable cold, which often lasts uninterruptedly for months. A few degrees below the freezing-point is the temperature, which frequently lasts for months together in the winter season. The prevailing winds are the W. and N.W.—Min. and Manuf. The industrial economy characterizing the German nationality will be found in the articles applying to its several constituent States.—Inhab. The great majority of the inhabitants of G. belong to the Teutonic race; exceptions, however, are found in Saxony, which contains 51,895 people of Vendic origin, and in the Prussian prov. of Posen, which numbers a population of \$25,000 of Slavonic extraction.—Religion. As a rule, the Protestants are most numerous in the N. German States, and the Roman Catholics in those of the S. In Bavaria, but one-third of the inhabitants belong to the Reformed Church; on the other hand there is not a single Roman Catholic in the other hand there is not a single Roman Catholic in the little principality of Schaumburg-Lippe, and but 30 members of the same confession in the grand-duchy of members of the same confession in the grand-duchy of Mecklenburg-Strelitz.—Education. In point of intellectual culture G. ranks high. School instruction is obligatory on the whole people, and much is done by the government for the promotion both of primary and of secondary education. There are no exact statistics, however, of the educational establishments, or of the expenditure incurred in connection with them. G. has 20 universities, of which 9 are in Prussia, 3 in Bavaria, 2 in Baden, and 1 each in Würtemberg, Heese, Saxony, Saxe-Weimar, Mecklenburg, and Alsace-Lorraine. Sometimes the academies of Münster and Braunsberg are accounted among the German universities.—Army, By the constitution of 1871 the Prussian obligation to serve in the army is extended to the whole empire, and the whole of the land forces of the empire forms a serve in the army is extended to the whole empire, and the whole of the land forces of the empire forms a united army, in war and peace, under the orders of the Emperor. The king of Bavaria, however, has reserved to himself the privilege of superintending the general administration of that portion of the terman army raised within his dominions. Every German capable of bearing arms has to be in the standing army for? years, as a rule, from the finished 20th till the commencing 28th year of his age. Of the 7 years, 3 must be spent in active service, and the remaining 4 in the army of reserves; after which he forms part of the first class of the landsear for 5 years, and of the second class till his 39th year. Collaterally with the army there has existed, since 1875, the landstams, to which all men liable to service belong, from the ages of 17 to 21 and 39 to 45, if they are neither in the line, the reserve, the landswehr, nor the marine. The landsturm is only called to arms in the event of a hostile invasion of the imperial erritory being threatened or effected. In time the landwehr, nor the marine. The landsturm is only called to arms in the event of a hostile invasion of the imperial territory being threatened or effected. In time of war the active and reserve army consists of 1,850,000 men and officers. By adding to this force all those who have been trained in military duties the army can be increased to 3,000,000 men. The peace strength of the army was fixed by the army law of 1893 at 479,229 men for the 5 years ending March 31, 1899.—Nazy. The formation of the German navy was due to the initiative of Prussia and dates from 1848. Rapid progress has been made in it of recent years, it now consisting of 4 first-class battleships, 5 of the second, and 4 of the third-class-12 ships for port defence, 9 first-class, 11 second-class and 23 third-class cruisers, and 23 other effective fighting ships, with 128 first-class torpedo boats and 4 second-class. Others of high power are being constructed.—Mosey. Uniformity of coinage was established in 1872, the unit of account being the mark = 28.3 cents, divided into 100 pfennige. The Thaler (about 75 cents) is the only old silver coin now remaining in circulation as legal tender. Weights and Measures. The French metrical system was made compulsory from Jan. 1, 1872.—Chm. (See Zoll-vermin.) (Hist.) For a long time known under the name of Germania, this vast country was, after the invasion of the barbarians and long time known under the name of Germania, this vast country was, after the invasion of the barbarians and the destruction of the Roman empire, divided between a number of independent races,—the Alemanni, Franks, Baxons, Slaves, Avari, and others. Charlemagne (q. v.) conquered these various tribes, and incorporated them in his vast empire; but on his death, in 814, all these diverse elements, forcibly brought together, soon separated, and the treaty of Verdun, signed in 843 by the sons of Louis-le-Débonnaire, gave birth to the kingdom of Germany. Separated from France and Italy after the dethronement of Charles the Fat, in 887, Germany was governed by princes of the Carlovingian dynasty. On the extinction of this family, the monarchy became elective, and the crown was conferred, in 911, on Conrad I., duke of Franconia. Henry the Fowler succeeded in 918, and was the head of the house of Saxony, which gave five sovereigns to Gerhouse of Saxony, which gave five sovereigns to Ger-

many, and renewed, in the person of Otho the Great, the empire of Charlemagne. Dating from this reign, the imperial crowu, which had alternately been worn by the kings of France, Germany, and Italy, belonged exclusively to Germany, which now took the name of The Holy Roman Empire of the German Nation. The Saxon dynasty added to the empire Lotharingia, Bohemia, and Italy; and to this family succeeded that of Franconia, which religed from 1024 to 1137, and added the kingdom of Arles to the possessions of the empire, and especially signalized itself by its quarrels with the Pope. The house of Suabia next succeeded, and, of this line, Conrad III. and Frederick Barbarosas, from 1138 to 1190, raised the imperial power to its utmost height. After them, their successors, assailed by their powerful vassals and the popes, and frequently deposed, fell into the lowest depths of weakness. It was at this period that the internecine struggles of the Gnelphs and Ghibelines occurred. On Conrad IV.'s death commenced the long interregnum from 1254 to 1273, which ended in delivering Germany from anarchy. Bodolph of



Fig. 1150. - BODOLPH, COUNT OF HAPSBURG.

Fig. 1150.—Bodolph, Count of Hapsburg.

Hapsburg, from 1273 to 1291, began the establishment of the authority of the imperial crown; but under his successors, the influence of the grand feudatories and electors of the empire sensibly increased. Their rights were publicly sanctioned by the famous Golden Bull, or charter, granted by Charles IV. in 1356. In 1438 Albert of Hapsburg was elected emperor, and became the chief of the present house of Austria. Charles V., the 4th sovereign of this dynasty, was elected in 1815, and gloriously resuscitated the grandeu of the empire. Ferdinand, his brother, reigned after him with wisdom; and, until the reign of Ferdinand II., no change of importance occurred. Under him the Thirty Years' War began, which, lasting from 1618 to 1648, resulted in the humiliation of Germany, the supremacy of France, and the confirmation of the Lutheran religion. The reigns of Leopold I., Joseph I., and Charles VI. were occupied with long wars with Louis XIV. and XV. of France; and the death of Charles, in 1740, gave rise to the War of the Austrian Succession, which secured the throne to the husband of Maria Theresa, Charles's daughter, and thus placed on the throne a member of the House of Lorraine, in the person of Francis II. Finally, in 1804, the empire of Germany ceased to exist, on the abdication of Francis II., who only preserved his hereditary estates, assuming the title of the emperor of Austria. — Hist. of the Confederation. The first Carlovingian sovereigns of G. were hereditary monarche; but, so early as 887, the states, or great vassals of the crown, deposed their emperor, Charles le Gros, and elected another sovereign in his stead. And from that remote period the emperor of G. continued to be elected, down to the beginning of the present cenvassals of the crown, deposed their emperor. Charles le Gros, and elected another sovereign in his stead. And from that remote period the emperors of G. continued to be elected, down to the beginning of the present century. Several of the great vassals of the empire had thus early attained to all but unlimited power; and it consisted of a vast aggregation of states of every different grade, from large principalities down to free cities and the estates of counts. The federal tie by which those different states were held together was exceedingly feeble. Their interests and pretensions were often conflicting and contradictory, and they were frequently at war with each other and with the emperor. There was, in consequence, a great want of security; and the need to repress the number less disorders incident to such a state of things led, at an early period, to the formation of leagues among the smaller states, and the institution of secret tribunals. The privilege of voting in the election of emperors was restricted to a few of the most powerful vassals, being confined by the Golden Bull issued by Charles IV., in 1366, to the archoishops of Ments, Treves, and Cologne, the duke of Saxony, the count palatine of the Rhine, the margrave of Brandenburg, and the king of Bohemia. The sovereigus of Bavaria, Hanover, and Hesse did not acquire a right to vote till a much later period. Most of the great effices in the empire were hereditary; and the public affairs were transacted in diets or assemblies of the great

feudatories and of the representatives of the free cities. But as the diet had no independent or peculiar force to carry its decisions into effect, they were very frequently diaregarded. At length, in the reign of Maximilian I., an attempt was made to introduce a more regular system of administration, and a better policy into the empire. As the political division of G. at this period was independent of the territorial sub-divisions which the independent of the territorial sub-divisions which the changes in families produced, it lasted as long as the empire itself preserved its unity as a political body; and even after the assumption of independence by the king of Prussia, that part of the kingdom of Prussia which previously formed a part of the empire was still included, nominally at least, in the order to which it belonged. By their refusal to join in this arrangement of internal policy, and to become amenable to the decrees of the Aulic Chamber (Reichs-Kammergericht), the Swiss cancons finally severed the last tie which united them to the empire. The influence of the kings of Poland caused as similar generation between the empire and the lands Aulic Chamber (Reichs-Kammergericht), the Swiss cantons finally severed the last the which united them to the empire. The influence of the kings of Poland caused a similar separation between the empire and the lands belonging to the Toutonic order, on the right bank of the Vistula. At the period of the outbreak of the French revolution, in 1789, G. was divided in 10 circles, each subdivided into many States and territories, vis.—1. The Circle of Austria, belonging entirely to the house of Austria; 2. The Circle of Burgundy, also belonging to Austria; 3. The Circle of Westphalia, divided among clerical and lay princes; 4. The Circle of the Platamate, divided between I lay and 3 clerical princes; 5. The Circle of the Upper Risse, divided among a number of territorial princes and nobles, the most powerful of whom was the landgrave of Hesse-Cassel: 6. The Circle of Swabia, numbering as the most powerful of its many petty soversigns, the duke of Wittenberg, and the margrave of Baden; 7. The Circle of Bavaria, in which the elector of Bavaria and the bishop of Salzburg took the lead; 8. The Circle of Franconia, comprising many principalities, counties, lordships, and free cities; 9. The Circle of Lower Sazony, including the duchies of Magdeburg, the two Mecklenburgs, and others, and among the free cities, those of Hamburg, Lübeck, and Bremen; 10. The Circle of Upper Sazony, of which Prussia formed the most powerful constituent; the Slavonic countries, which were not included in any circle, were the kingdom of Bohemis, the margraviate of Moravia, the duchy of Sliceia, and the margraviates of Upper and Lower Lussaia. Besides these divisions there were numerous counties, lordships, abbeys, and free imperial towns, not belonging to any circle, but held directly of the emperor. Every circle had its diet, in which the clerical and secular princes, the prelates, the counts and barous, and the free imperial cities, formed 5 benches or colleges. Affairs of general importance to the empire at large were treated by the imperial Bavaria (since 1623), and Brunswick-Lüneburg (since 1692). 2. The college of the clerical and secular princes, bishops. margraves, counts, &c.; the numbers of the clerical members being 36, and of the secular lords, 83. The colleges of the free imperial cities, then 54 in number. In 1791 began the memorable contest with revolutionary France, which ended in the overturn of the old Germanic constitution. The treaty of Campo-Formio, the first that history records in which the Rhine was acknowledged as the frontier of France, decreed an indemnification to those princes who lost by the cession, and this indemnification could only be obtained by the spollation of some others whose rights were equally indefensible, in the heart of the empire itself. On Jan. 25, 1803, a decision was come to by the plenipotentiaries assembled for the arrangement of this matter, the import of which was as follows:—The Holy Roman Empire, as that of G. was styled, remained as it was dided into circles, but which, with the total loss of the Circle of Burgundy, and of the lands on the left bank of the Rhine, were reduced to 9, whose boundaries it was proposed to regulate anew. This regulation was, however, prevented by the wars which so quickly succeeded each other. The right to sit and vote in the diet remained, as formerly, attached to territories held directly as fiefs of the empire; and the place of the convocation of the diet remained at Ratisbon. The colleges remained also 3 in number; the first being the college of electors, who were 10 in number; one clerical, —the cation of the diet remained at Ratiaton. The colleges remained also 3 in number; the first being the college of electors, who were 10 in number; one clerical,—the elector arch-chancellor; and 9 secular,—Bohemia, Bavaria; Saxony, Brandenburg, Brunswick-Lüneburg, Salsburg, Witrtemberg, Baden, and Hesse-Cassel. The electorate of Menta had merged into that of the arch-chancellor, and the Palatinate into the electorate of Bavaria; Treves and Cologne had disappeared, and 4 new electorates had been created. The second college—of princes—counted 131 votes. The college of towns was composed of 6 with votes: Hamburg, Libbeck. Brenew electorates had been created. The second conege of princes—counted 131 votes. The college of towns was composed of 6 with votes: Hamburg, Lübeck, Bremen, Frankfort-on-the-Main, Augsburg, and Nuremberg. The other territories, enumerated above as not being included within the circles, remained as they were, nor did any change take place in the extent or position of the Slavonic countries. Napoleon I., who since 1799 had directed the foreign policy of the French nation, not satisfied with this reduction of the power of the empire, now conceived the idea of effecting its entire dissolution. The treaty of Presburg, in 1805, which followed the battle of Austerlitz, gave him the means of carrying this project into effect, by forming a confederation of German princes, called the Confederation of the Rhine, who, uniting into a corporate body, in 1807 placed themselves under the protectorate of the

French emperor. The wars which followed, with Prussis in 1807, and with Austria in 1809, gave Napoleon the power of altering the territorial distribution of G. at pleasure. He accordingly created for his brother Jerome the new kingdom of Westphalia, and for his brotherin-law Joachim Murat, the grand-duchy of Berg, and raised those members of the Rhenish confederation who supported his cause to new dignities and an openly recognized independence as sovereigns. Under the circumstances, the emperor, Francis II., by a solemn act, renounced the style and title of emperor of Germany, Ang. 6, 1809. In the following year Napoleon incorporated the coasts of the German Ocean with the French empire, and divided them into departments; thus separating from G. a district peopled by more than 1,100,000 inhabitants. The termination of the war with Russia, called in Germany the Liberation War, restored G. to its geographical and political position in Europe, but not as an empire acknowledging one supreme head. A confederation of 35 independent sovereigns and 4 free cities replaced the elective monarchy, that fell under its own decepitude. In the choice of the smaller princes who were to become rulera, as well as all those who were obliged to descend to the ranks of subjects, more attending the content of the ranks of subjects, more attending the content of the ranks of subjects. its own decrepitude. In the choice of the smaller princes who were to become rulers, as well as all those who were obliged to descend to the ranks of subjects, more attention was paid to family and political connection than to the old territorial divisions under the empire. The clerical flets, and the greater part of the free imperial cities, were incorporated into the States of the more powerful princes, upon the dissolution of the empire, and were not re-established. Only 4 cities remained in the enjoyment of their political rights. The signing and ratification of the Act of Confederation took place, after long discussion, June 8, 1815. As thus settled by the treaty of Vienna, G. was divided into 39 sovereign states, or portions of states; but the number became reduced to or vienna, G. was divided into so sovereign states, or portions of states; but the number became reduced to 34:1. By the demise of the Saxon princedom of Gotha in 1826, which became incorporated with Saxo-Coburg and Saxe-Meiningen; 2. By the falling away of the duchy of Anhalt-Küthen, which. in 1847, became annexed to Anhalt-Dessau; 3. and 4. By the abdication of the princes of Hohenzollern-Hechingen and Hohenzollern-Sigmaringen, in 1849, in favor of their kinsman the king of Prussia, head of the house of Hohenzollern; and S. By the extinction of the duchy of Anhalt-Bernberg in 1863. For an account of the France-German war and the establishment and subsequent history of the present empire, see German Empire, Section II.

## EMPERORS AND KINGS OF GERMANY.

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CARLOVINGIANS.
A. D. 800. Charlemagne, or Chas. I. (the Great.) 814. Louis I. (le Debon-876. naire.)
                                           Chas. II. (the Bald.)
                                          Carloman, Louis III.
(the Saxon.)
Charles III. the Fat,
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HOUSE OF PRANCONIA. 911. Conrad I. 919. Henry I. (the Fowler.) 973. Otho II. 936. Otho I. (theGreat)king. 983. Otho III. 999. Otho I. (emperor.) 1002. Henry II. (the Holy.)

HOUSE OF FRANCONIA, (restored.)
1024. Conrad II. (the Sa- 1081. Herman of Luxem

lique.) burg,
1039. Henry III. (the Bl'k.) pope.)
1056. Henry IV. 1087. Courad.
1077. Rodolph of Suabia, 1106. Henry (elected by the pope.) burg, (slected by the VI.

HOURE OF SAXONY.

1125. Lothaire II.

HOUSE OF SUABIA, OR HOHENSTAUFFEN.

1138. Conrad III.

1209. Otho IV. (aloue.)

1162. Frederick I. (Barbe-1215. Frederick II. receries I: (Baros. 1215, Frederics II. rossa).
1100. Henry VI. 1247. William of Holland, (chosen by the pope.)
1197. Otho IV. (of Bruns- 1250. Courad IV. ( wick).

INTERREGUIM. 1254. William of Holland, (merely nominal.)
1257. { Richard of Cornwall, "
Alfonso of Castile, "

HOUSE OF HAPSBURG. 1273. Rodolph (of liaps- 1292. Adolphus (of Nassau) burg). 1298. Albert (of Austria).

HOUSES OF LUXEMBURG AND BAVARIA.

1308. Henry VII. (of Lux- 1378. Wenceslaus (of Luxemburg). emburg). Louis V. (of Bavaria). 1400. Robert (Count Pala Frederick (of Aust.) Charles IV. (of Luxtine). Jossus (of Moravia). Sigismund (of Lux-emburg). emburg).
Günther (Count of 1347.

Schwartzburg).

HOUSE OF AUSTRIA.

1612. Matthias.

II. 1619. Ferdinand II.

1637. Ferdinand III.

1658. Leopold I. 1438. Albert II. 1438. Albert 11. 1439. Frederick III. 1493. Maximilian I. 1519. Charles V

1556. Ferdinand I. 1564. Maximilian II. 1576. Rodolph II. 1705. Joseph I. 1711. Charles VI. 1742. Chas. VII. (of Bavaria).

ROUSE OF AUSTRIA, (Hapsburg-Lorraine.) 1745. Francis I. 1765. Joseph II. 1792. Francis II.

HOUSE OF HOHERZOLLERN.
1871. William I, 1888. Frederick III. 1888. William II.
Ger'many, in Pennsylvania, a township of Adams

Germany, in Premylecusic, a township of Adams co.

Germa'-cell, n. (Physiol.) The cell which results from the union of the spermatozoon, or spermatic matter conveyed by it, with the germinal vesicle or its nucleus. Germen, n. [Lat.] Same as Germ, q. c.

Germinal, a. Pertaining to a germ
(Physiol.) G. area, the circular or oval space formed by liquefaction and metamorphosis of a peripheral portion of the germ-mas, preparatory to the appearance of the first trace of the proper embryo. It is divided into a central clear part called area peripheral part called area opaca; the portion of the latter in which blood and blood-vessels are developed is called the area vasculos.—G. membrane, the strats of cells and nuclei of cells originally forming, and afterward extending from, the germinal area. The external stratum is the verbral layer, also called the seroes and annual layer; the internal stratum is the viscoral layer, also called the mucous and vegetal layer.—G. god, the nucleus of the germinal vesicle. It consists of a finely granulated substance, strongly refracting the rays of light.—G. vesicle, a clear nucleated cell, which is the first formed and most essential part of the ovum. It is surrounded by the yolk, and passes to the periphery of that part prior to impregnation, after which the germinal vesicle becomes opaque or disappears. It is sometimes called, after its discoverer, the Parkingian resicle.

surrounded by the yolk, and passes to the periphery of that part prior to impregnation, after which the germinal vesicle becomes opaque or disappears. It is sometimes called, after its discoverer, the Purkingian vesicle. Ger'minal, n. [Fr., calendar.] The name given under the French Republic to the seventh month of the year, dating from Sept. 22, 1792. It commenced March 21 and ended April 19.

Ger'minaste, v. n. [See Sural.] To shoot; to begin to vegetate or grow, as seeds.
—r. a. To cause to spront.

Germinat(som, s. [Lat. germinatio, from germinare, to put forth, to bud.] (Bot.) The phenomena of G. are best observed in dicotyledonous seeds, such, for instance, as the bean, paa, lupin, &c. These seeds consist of twe-loise or cotyledona, euveloped in a common membrane; when this is removed, a small projecting body is seen, which is that part of the germ which afterwards becomes the root, and is termed the radicle. The other portion of the germ is seen on carefully separating the cotyledons, and is termed the plasmate; it allowwards forms the stem and leaves. When the ripe seed is removed from the perent plant it gradually dries, and may be kept often for an indefinite period without undergoing any change; but if placed under circumstances are a due temperature, moisture, and the presence of air. Where these are present, the seed cumstances are a due temperature, moisture, and the presence of air. Where these are present, the seed gradually swells, its membranes burst, and the germ expands. The root is at first most rapidly developed, the materials for its growth being derived from the catyledons; and when it shoots out its fibres or rootlets. the materials for its growth being derived from the catyledous; and when it shoots out its fibres or rootlets, these absorb nourishment from the soil, and the plumula is developed, rising upward in a contrary direction to the root, and expanding into stem and leaves. For this growth the presence of air is requisite; if it be carefully excluded, though there may be heat and moist-ure, yet the seed will not vegetate. Hence it is that seeds buried very deep in the earth, or in a stiff clay, remain inert, but on admission of air by turning up the soil, begin to shoot forth. From experiments which have been made upon the G. of seeds in confined atmospheres, it appears that carbonic acid is evolved, and that part of the starch of the cotyledone passes into gum and sugar; so that most seeds, as we see in the convision of barley into malt, become sweet during G. Light is injurious to the growth of a seed. It is, therefore, obvious that the different requisites for G. are attained by placing a seed under the surface of the soil warmed by the sun's rays, where it is moistened by its hundity and by occasional showers, and excluded from light, but within reach of the access of air. The most favorable temperature is between 60° and 80°; at the freedra point none of the more perfect seeds vegetate; and at temperatures above 100° the young germ is usually is jured. Certain chemical changes, the most important being the tonversion of starch into sugar, take place in the seed, and the embryo is nourished by the product of these changes. Thus nourished, it increases gradually in size, and ultimately bursts through the interuments of the seed. Its lower extremity, or radicle, is commonly protruded first, and, taking a downward units of the seed. Its lower extremity, or radicle, is commonly protruded first, and, taking a downward direction, becomes fixed in the soil. The opposite extremity soon elongates upwards, and is terminated above by the plumule or gemmule, which is the first terminal bud, or growing apex of the stem; and at the same time the cotyledonary portion is either left under-ground, or is carried upwards to the surface. During the gradual development, the embryo continues to be nourished from the matters contained in the albumen or cotyledonary portion, and is ultimately enabled to produce its first leaves and root. The young plant is then in a position to acquire the necessary nourishment by itself, for its further support and growth, from the media by which it is surrounded; and being rendered independent of the seed, has no need of the cotyledonary portion, which accordingly perishes. The spores of acotyledonous plants develop roots indifferently from any part of their surface: this mode of G is termed heterorhizal. In the G of monocotyledonous embryos, the radicle is not to G. of monocotyledonous embryos, the radicle is not itself continued downwards so as to form the root, but it gives off branches of nearly equal size, which separately Digitized by GOO

pierce its extremity and become the rootlets. Each of these rootlets, at the point where it pierces the radicular extremity, is surrounded by a cellular sheath, termed the coloration. This mode of G. is commonly termed suborhisal. The radicle of a dicotyledonous embryo is itself prolonged downwards by cell multiplication just within its apex, to form the root; and this mode of G. is distinguished as exoraisal.—See Boor; Stem. Gereminative, a. Belating to germination.

Gereco'main, Gereco'cmy, n. [Fr. gérocomie, from Gr. gerin, an old man, and komein, to take care of.] (Mal.) That part of the science which relates to the diet and treatment of old age.

Gerouns, (jai-rō'na,) (anc. Gersuda,) a fortified city of Spain, prov. Catalonia, cap. of correg. of the same name, at the foot of a steep mountain on the Ter, 50 m. N.E. of Barcelona. It has a fine cathedral and other churches, which were sacked by the French under Augereau, during the Peninsular War, when the city stood a siege of seven months. G. is of great antiquity, and formerly gave the title of prince to the elder son of the kings of Aragon. Manuf. Course woollen and cotton stuffs and stockings. Pop. 14,085.—The corregidorship, or sub-prov. of G. is very fertile, and has an area of 4,400 sq. m., with a pop. of 342,067.

Ger'ram and stockings. Pop. 14,085.—The corregidorship, or sub-prov. of G. is very fertile, and has an area of 4,400 sq. m., with a pop. of 342,067.

Ger'ram Enemon, one of the signers of the declaration

Gerrardistowm, in W. Virpinia, a P.O. of Berkeley co. Gerrom. See Garox.
Gerrom. See Garox.
Gerry, Elazidos, one of the signers of the declaration of American independence, s. at Marbiehead, Mass., 1744. After graduating at Harvard in 1762, he was elected, in 1772, representative of his native town in the State lecislature. In 1776 Q. was elected a delegate to the Continental Congress then sitting in Philadelphia, and appointed in 1780 to the presidency of the treasury bard. He served four successive years in Congress, and in 1797, in conjunction with Pinckney and Marshall, was seut on a special mission to Paris. In 1810 he was elected governor of Mass., and in 1812 fifth vice-president of the United States. D. 1814.
Ger'ry, or Gerar Poez, in New York, a post-township of Chautauqua county, about 6 miles north of Jamestrewn.

lers, a river of France, which, rising in the Pyrenees unites with the Garonne at Agen, after a course of abt

unites with the Garonne at Agen, after a course of abt. 80 miles.

Gers. a dept. of France, region S.W., between Lat. 430 li' and 440 4' N., and Lon. 00 l8' W. and 10 l1' E.; having N. the dept. Lotet-Garonne, E. those of Tarnetoravane and Haute-Garonne, B. the latter and the llautes and Basses-Pyfenées, and W. Landes. Length, E. to W., 74 m., by about 54 in breadth; arra, 628,031 hectares. Surface. The last ramifications of the Pyrenees cover most of this dept., the slope of which is mostly from S. to N. Rivers. Numerous, being affluents of the Garonne and Adour. Soil. Fertile. Prod. Wheat, maize, oats, hemp, flax, wool, wine, and vegetables and fruits. Large numbers of cattle and swine are fattened. Manuf. Glass, carthenware, leather, starch, linen, woollen, and cotton cloths, &c. Chief towns. Auch (the cap.) Condom, Lombez, and Mirande.

Gers'dorffite, s. (Mis.) Nickel glance, an ore of nickel found at Loos, in Sweden, and elemenre in the trope, and at Phoenixville, Pa. Occurs in cubes and massive; lustre metallic. Color, silver-white, steel-gray, often tarnished gray or grayish-black. Sp. gr. 56-6-9. Comp. Arsenic 45-6, sulphur 19-4, nickel 35-1. It is decomposed by nitric acid, forming a green solution with separation of sulphur and arsenious acid.

Gerson, Jan Charlitz, (shair-sawag') a French divine, chancellor of the university of Paris, B. near Rhetel, 1363. He largely contributed to the election of Pope Alexander V., energetically denounced the murder of the Duke of Orleans by the Duke of Burgundy, and distinguished himself at the Council of Coustance. Grave critics, as Bellarmine, Mabillon, Gence, and novelist, was at Hamburg in 1816, and emigrated while an apprentice to New York. Thence he journeyed on foot to Canada. Texas, &c., performing any work that was offered to him, having at different times been a sailor, a

tics to New York. Thence he journeyed on foot to Canada, Texas, &c., performing any work that was offered to him, having at different times been a sailor, a jeweller, a hotel-keeper, a farmer, and stoker of a steamout. About 1842 he returned to Germany and published his travels. He spent the years 1849-50-51 and 1852 in travelling through Brazil, Buenos Ayres, California, and Australia; and the narratives of his travels through these countries became very popular, being translated into several languages. His principal novels are, The Pirates of the Mississippi; The Feathered Arrow; A Wife to Order, &c. D. 1874.

Gertrude, the name of three Roman Catholic saints: the frst, abbess of Nivelle, 626-659; the second, an abbess of the order of St. Benedict, and author of Revlations. D. 1034; the third, a daughter of Saint Eliza

latims. D. 1034; the third, a daughter of Saint Elizabeth of Huurary, D. 1297.

Gerunde, (fr'und.) n. [Lat. grundium, from gerere, to bear.] (Grun.) In Latin gram., a part of the verb used to denote something as being done; thus, legendum, reading, from lego, I read. It is a sort of verbal substantive, being declined like a noun, but having the same power of government as its verb. In English the present participle occupies the place of the gerund.

Gerun dial, a. Pertaining to, or like a gerund.

Gerun dive, n. (Lat. Gram.) The future participle in the passive voice.

in the passive voice

in the passive voice.

(Evg. Gram.) A participle governed by a preposition, and itself governing an objective case; as, "the time of delivering a discourse." — Worcester.

German'dively, adr. In the manner of a gerund.

Ger'vinua, Georg Gottfried, a German historian and

philosopher, a at Darmstadt, 1805; was appointed in 1826 Professor of German Literature at the University of Göttingen, from which he was dismissed for the literalism of his political views. Of his many numerous and important works we may mention the History of the Nineteenth Century since the Treaty of Vienna, which has been translated into French and English. D. 1871.

Geryon. (Myth.) A son of Chryssor and Calirrhoe, king of Erythia, or of the Balearic Islands. The poets represent him as a giant with three bodies and three heads, who had large herds of cattle which he fed on human fissh. To guard them, he had a two-headed dog and a seven-headed dragon. Hercules slew him and his adherents, and carried away all his herds to offer them to Eurystheus.

shuman fiesh. To guard them, he had a two-headed dog and a seven-headed dragon. Hercules slew him and his adherents, and carried away all his herds to offer them to Eurystheus.

Gery'ville, in Pennsylsonia, a post-office of Bucks co.

Genecke (geneck'e) a town of Prussis, in Westphalia, 25 m. N.E. of Arneberg. Monny. Linen. Pop. (1969) 3,600.

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Genecke (geneck'e) a town of Prussis, in Westphalia, 25 m. N.E. of Arneberg. Monny. Linen. Linen. (Script.) The name of a district and people in Syria. Geshur lay upon the E. side of the Jordan between Basham, Maschah, and Mount Hermon, and within the limits of the Hebrew territory; but the Israelited did not expel its inhabitants, (Josh. xiii. 5; xiii. 13.)—There was also a people of the same name in the S. of Palestine, uear the Philistines, (Josh. xiii. 9; 1 Szm. xxvii. 8.)

Geo'mer, Cornan, the "Pliny" of Germany, B. at Zurich, 1516; acquired a thorough literary and medical education, notwithstanding his poverty, and after teaching Greek for a time at Lausanne, began to give lectures in philosophy. His fame as a naturalist circulated throughout Europe, and he maintained a correspondence with the prominent literati of all countries. Without enumerating his translations from the dead languages, his voluminous blographical contributions, his philological, or theological writings, in all of which he has written largely, his repute as a naturalist is mainly based on his Historia Animalium, Lat. (1551-89), the most learned work on the subject up to that time; and his various writings on Botany (Nuremberg, 1754-70), in which he was the first to establish a scientific classification founded on fructification. D. 1565.

Geo'mer, Soldon, a Swiss poet and painter, B. at Zurich, 1730. His intimacy with Klopstock caused him to devote himself to poetry, and after the publication of a few short poems, in 1756, appeared his Mylls, which at once placed him at the head of all

as species of Glorinia, Achimenes, &c. Gens'ler, Albricht, called also G. von Bruntck, was in Gess'ler, Albricht, called also G. von Brunter, was in 1300 appointed joint-governor along with Berenger von Landenberg, of the Walstüdlen or Forest Cantons (Schwytz, Unterwalden, and Uri), by Albrecht I. of Austria. According to the traditions connected with Tell (q. v.), his oppressive edicts and wanton cruelty so enraged the inhabitants that a conspiracy was formed against him, and he was shot by Tell in a narrow pass near Küssnacht in 1307.

Jest, n. [Fr. geste; Lat. gestum, a thing done, from genera, to bear, to perform.] A deed; an action; an achievement.

Gest, n.

"And goodly can discourse, with many a noble cest."-Spenser Gen'tant, a. [Lat. gestans, pp. of gesture, to carry.]
Luden; burdened.

Gen'tant, a. [Lat. gestans, pp. of gesture, to carry.]
Laden; burdened.
Gen'ta Romano'rum. [Lat., the deeds of the Romans.] (Lit.) The title of a legendary work of the Middle Ages, written in Latin, and whose tales are chiefly taken from the history of the Roman emperors, or belong to that period, and are accompanied with moralising expositions; whence it is also called Historia Moralisata. The stories are short, and display an almost childish simplicity. They were appointed to be read by the monks, and were generally much read down to the 16th cent. They were translated into several languages, and formed a rich mine for the earlier fabulists and novelists. Grässe, in his German translation of this work, (2 vols. Leipsic, 1842) assigns its authorship, apparently with reason, to a certain monk named Elimandus, who died in 1227. The newest edition of the original text is that edited by Cesterley (Berlin, 1872). Gesta'tion, n. [Lat. gestatio, from gern, I carry.] (Physiol.) The period that intervenes, in the mammalia, between conception and the delivery of the young. It differs greatly in different animals. In the human species it is 40 weeks or 280 days, but it may be prolonged or shortened by several weeks, the birth sometimes taking place as early as the seventh month. In the cow it is 9 months, in the mare 11, in the dromedary 12, in the girafie 14, and in the elephant 21. It is much less in the smaller animals, being about 63 days

in the dog, 56 in the cat, 28 in the rat, four months is the sow, and about 5 months in the sheep and goat. In the marsuplal animals, q. v., it is very short, being 39 days in the kangaroo and 26 in the oposum.

Gen'tatory, a. [Fr. gestatoire; Lat. gestatorius. See Suraa.] Belonging to pregnancy or gestation.

Gen'tat, a. [Lat. gestus, carriage, posture, from gerere.]

Pertaining to deeds of arms; legendary; historical.—Belonging to posture or motion.

Gestic ulaste, r. n. [Fr. gesticuler; Lat. gesticulari, from gesticulus, dim. of gestus. a posture.] To make gestures or motions, as in speaking: to use postures.

—a. a. To represent by gesture; to act.

tures or motions, as in speaking; to use postures.

-s. a. To represent by gesture; to act.

-estfeulla'tfom, n. [Fr., from Lat. gesticulatio. See

SUPRA.] Act of making gestures to express passion, or

enforce sentiments; gesture. — A motion of the body or

limbs in speaking or representation. — Antic tricks or

motions.

limbs in speaking or representation.—Antic tricks or motions.

Gestic ulator., n. [Fr. gesticulateur; L. Lat. gesticulator.] One who shows postures or makes gestures.

Gestic ulatory, a. Representing in gestures.

Gestureal, a. Belonging to gesture.

Gestureal, a. Gesture, position, or motion of the body or limbs, expressive of sentiment or passion; any action, attitude, or posture intended to express an idea or a passion, or to enforce an argument or opinion.—General action or motion of the body.

—v. a. To accompany with gesture; to gesticulate.

—r. n. To make gestures.

Gestive (a. (imp. GOT; pp. GOT, GOTTEN.) [A. B. getan, gytan, to obtain.] To procure; to obtain; to gain possession of; to acquire; to attain; to reach; to realize; to win; to have; as, to get a name, to get wealth. —To beget; to procreate; to generate; as, to get children. —To learn; to con, as a lesson. —To prevail upon; to induce. "Get him to may his prayers." (Sakz.). —To cause to be or to occur; — with a participle following; as, to get a thing done.—To betake; to carry; — in a reflexive sense.

"Gest these out from this land."—Ges. xxxi. 13.

—v. n. To arrive at any place, state or condition by degrees followed by some modifying word; as to get have

"Get these cut from this land."—Gen. xxxi. 13.

—e. n. To arrive at any place, state or condition by degrees, followed by some inodifying word; as, to get home, to get along, to get up or down.—To gain; to be increased.

"We lose, they daily get." (Shakz.)—To become; — followed by an adjective; as, to get drunk.

Get tas, Serimus, second son of the emperor Severus, was born a. D. 189, and was bruther of the infanous Caracalla, with whom he was associated in the empire on the death of his father. Caracalla, who envied his virtues and was jealous of his popularity, after having endeavored to effect his death by poison, nurdered him, and wounded their mother, who was attempting to save him, 211 a.p. Get tas.

Get tas. (Hist.) An ancient people of Thracian origin, who, when first mentioned in history, inhabited the country which is now called Bulgaria. They were a warlike people, and for a long time successfully resisted the attempts of Alexander the Great and Pyrrhus to subdue them. They afterwards removed to the N. bank of

the attempts of Alexander the Great and Pyrrius to subdue them. They afterwards removed to the N. bank of the Danube, having the Dnieper as their boundary on the E., while westward they encroached on the Roman empire, with which from this time they were continually at war. They were subdued by Trajan in 106. The Romans called them Duci, and their country Dacta, q. v. Get Rasem'ame. [Heb. gath, a wine-press, and shemen, oil.] (Stript.) A karden or grove in the valley at the foot of the Mount of Olives, over against Jerusalem, to which Christ sometimes retired, and in which he endured his agony, and was betrayed by Judas, (Matt. xxvi. 36-57.) Early tradition locates G. near the base of Mt. Olives, beyond the brook Kidron. The place now enclosed by a low stone wall (Fig. 1151) may be but a part of the original "garden." It is about 52 yards square, and contains eight aged olive-trees, whose roots in many



Pig. 1151. GARDEN OF GETHSEMANE, AND MOUNT OF OLIVES.

places project above the ground, and are protected by heaps of stones. Here, or at most not far off, the Saviour endured that unspeakable "agony and bloody sweat" so nearly connected with his expisitory death; and here in deep submission he mingled and closed his prayers

for relief with the cry, "Nevertheless, not my will, but thine, be done." From this garden he could readily see the crowd of men "with lanterns and torches" emerging from the city gate, and hastening, under the guidance of Judas, to seize him. It is the spot which the Christian visitor at Jerusalem first seeks out, and where he linears louisest and last are he turns becaused Christian visitor at Jerusalem first seeks out, and where he lingers lougest and last ere he turns homeward. Gethsem'sme, in Kentucky, a post-office of Nelson co. Get'table, a. Obtainable: attainable. Getatur'sm, n. [I.]. See Fascination. Get'ter, n. One who gains, obtains, or acquires.

Get'ting, n. Act of gaining, obtaining, or acquiring.
"And with all thy getting get understanding."—Prov. iv. 7.

-Acquisition; gain; profit.

—Acquisition; gain; profit.

"To stoop to petty gettings."—Bacon.

Get'tysburg. in Ohio, a post-village of Darke co., abt.

14 m. W. of Piqua.

—A village of Preble co., abt. 102 m. W. of Columbus.

Get'tysburg. in Pransylvanoi. a post-barough, ap. of
Adams co., 114 miles W. of Philadelphia, and 308 W. of
Harrisburg. This is a flourishing little town, in the
centre of a fertile farming district, and among its principal buildings are the Pennsylvanoa Coll and the Lutheran
Theological Seminary. Fop. (1887) 3510.—G. lies on the
N. slope of a gentle eminence known as Cemetery Hill.
Near this apot, the National army of the Potomac under
Gen. Meade, was attacked by the Confederates command-N. slope of a gentle eminence known as Cemetery Hill.
Near this spot, the National army of the Potomac under
Gen. Meade, was attacked by the Confederates commanded by Gen. Lee. July 1, 1863, who compelled the former
to take up a strong position on the hill to the S. of the
town, where, after a succession of vigorous onslaughts
and desperate fighting, the assailants were repulsed,
July 2d. On the next day, the struggle recommenced,
and resulted in the failure of an attack made upon the
Union position by Gen. Pickett's corps, 15,000 strong,
and the consequent defeat of the Confederates. The
National loss during the three days' fighting amounted
to 2,834 men killed, including Gen. Reynolds, 13,703
wounded, and 6,643 missing and prisoners. The Confederate loss was severe, being estimated at about 30,000
men, of whom about 14,000 were prisoners. Among
their killed and mortally wounded were generals Barkadale, Garnett, Armistead, Pender, and Semmes.
Ge'msm. n. [Lat., from Gr. grao, to taste well, in silusion
to the taste of the roots.] Get.) A gen. of plants, ord.
Rosacze. The Avens or Herb Bennet, G. urbanum, a
European plant, has lyrately pinnate leaves and small
yellow flowers. Its root, called by the herbalists Cloveroot, has an aromatic clove-like odor, and possesses astringent properties. The American species, G. rivale
(Fig. 1162), the Water Avens, has the same properties



-THE WATER-AVENS, (Geum rivale.) Fig. 1152. -

and different on the water Avens, (Geum rivale.)
a, carpel and awn; b, petal; c, atamen; d, pistil.
and differe only from the preceding species by its nodding flowers of a brownish hue. It is a fine plant, conspicuous among the grass in wet meadows of the N. and
Middle States.

Gevaudan, (shai'vo-da,) an old division of France, prov. Languedoc, now comprised in the depts. Losère and Upper Loire.

Upper Loire.

Gew'gaw, (gü'gdw,) n. [Probably from O. Eng. gaud, a pleasing trifle, a toy. Of. Fr. joujou.] A showy trifle; a pretty thing of little worth; a toy; a bauble; a splendid plaything.

—a. Showy without value; trumpery; tawdry.

Gew.,(shekz.) a town of France, dep. Ain, 10m. from Geneva. It lies on the E. side of the Jura Mountains, and has a brisk trade in corn, Gruyère cheese, and wool. Pop. she 3.500.

Geyer, (gf'er,) a town of Saxony, circ. Erzgebirge, 20 m. E S E. of Zwickau. *Manuf*. Cotton goods. *Pop.* abt.

Gey merite, n. (Min.) The name given to concretionary deposits about the Iceland geysers, consisting mostly of silica.

of silica.

Geysors, 'gi'sers,') n. pl. [Icelandic geysa, a raging or roaring.] The name given to certain eruptive fountains of boiling water in Iceland. They are situated about 30 m. from the volcano of Heela, in plains full of hot springs and steaming fissures. The two principal G. are called the Great Geyser and the Strokr, or Churn, and they are with-

in a few hundred feet of each other. The great G. is a circular pool of hot water 72 leet across at its widest part, by abt. 4 feet deep, and contracting in the centre to a pit 8 feet in diameter and 83 feet deep. A stream of hot water is constantly flowing from the crater. Every few hours the water rises rapidly from the pit in jets a few

GHEE

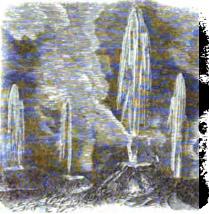


Fig. 1153. — THE STROER AND OTHER GEYSERS.

Fig. 1163. — THE STROER AND OTHER GETSERS.

feet above the surface of the pool; but about once a day it is thrown upward with terrific force to the height of from 60 to 200 feet, while immense volumes of steam obscure the country for some distance around. The hot water decomposes the lava through which it rises and the silica is deposited in cone-like incrustations around the openings—that around the Great Goyser being about 15 feet in height. The intermittent action of the G. is supposed to be owing to the sudden production of steam in subterranean chambers connected with the channels through which the waters flow. There is a large geyser region in New Zealand, and one in California that gives out boracle acid. See also Yellowstone National Park.

Geyserville, (giver-vil.) in California, a village of Sonoma co., on Rassian River, abt. 23 m. N.N.W. of Santa Ross.

Ghast'fully, adv. Dreadfully; frightfully.
Ghast'liness, n. [From ghastly.] Horror of countenance; a deathlike look; resemblance to a ghost;

tenance; a deathlike look; resemblance to a glost; paleness.

Chast'ly, a. [A.S. gastlic, from gast, a ghost, and lic, like.] Deathlike; pale; dismai; grim; as, a ghastly dream. a ghastly face.— Horrible; shocking; hideous; frightful, as wounds.—adr. Hideously.

Chast, (gavet.) (Geog.) A name used in the East Indies to signify a pass through a mountain, and also the mountain range itself; it has besides a third signification, and is used to express those steps leading from a water terrace to the brink of the river, and the places at which boats take up and set down their passengers on the rivers of India.—This name is especially given to two mountain ranges, which traverse nearly the entire length, north and south, of the peninsula of Hindostan, and are divided into the rattern and western Hindostan, and are divided into the eastern and western

the entire length, north and south, of the peninsula or Hindostan, and are divided into the east-ra and western Ghauts; the former, however, are of little consequence as mountains, hardly ascending above 1,400 feet above the level of the sea. The western are, on the contrary, grand and rugged steeps, forming a frowning and dangerous barrier between Mysore and the central privinces, and the Malahar and Bombay dependencies, culminating, in some parts, in peaks of 9,900 ft. in altitude. Bhasipoor', or Ghasepore', a dist. of llindostan, British presidency of Bengal, prov. Allahalad; between Lat. 25° 10' and 26° 20' N., and Lon. 82° 40' and 84° 30' E.; having N.W. and N. the districts of Azinghur and Gorruckpore, N.E. Sarun, S.E. Shadabad, and W. Benares and Juanpore. Area, 2,850 sq. m. The Ganges runs through its S. part; the Ghogra bounds it on the North. Soil. G. is one of the most fertile divisions of Hindostan, and the sugar-cane, corn, and fruit-trees are extensively cultivated. It has long been celebrated for the excellence of its rose-water and attar. Chief towns. Ghasipoor (the cap.), Azimpoor, and Doorighaut. Estim. pop. 1,600,000.

Ghasipoor (the cap.), Azimpoor, and Doorighaut. Estim. pop. 1,600,000.
GHAZIPOOR, a large city of Hindostan, cap. of above dist., on the N. bank of the Ganges. 40 m. E.N.E. of Bennres, and 100 W. of Patns; Lat. 259 35' M., Lon. 83° 35' E. It is finely and salubriously situated; but its ancient magnificone is now only seen in its ruined palace, built by the Nawaub, Cossim Ali Khan. Here is the mausoleum of the Marquis Cornwallis, Gov.-Gen. of India, who died in this city; this structure occupied 15 years in building, and cost \$1.000,000.
Ghe'a-butter, or Galam. n. (Chem.) A fat oil closely resembling palm-oil. It is the product of the Micadenia or Bassia Parkii, a West-African palm. It is of a gray-ish-white color, and meits at 9° F. Ghe'ber, Ghe'srs. n. Same as Guerre, q. v. Ghee-Cogi, n. [Hind. ghi, clarified butter.] A kind of butter extensively used by the natives of India. To make it the milk is boiled in large earthen pots for an hour or two, cooled, and a little dhy or curdled milk added to hasten coaculation. It is then churned, hot water being added during the process, until the butter is formed. In

a few days when the butter has become rancid, it is again melted in an earthen vessel, and boiled until all the water is expelled; after which a little salt or betel leaf is added, and it is put up in pots for use. As may be imagined, the smell and flavor are strong and coarse, and it is little relished by Europeans or Americans.

Gheel, (got.) a town and commune of Belgium, prov. Antwerp, 26 m. K.S.E. of Antwerp city. It is literally an oasis in a desert, being a comparatively fartile spot, inhabited and cultivated by 10,000 or 11,000 peasants, in the midst of an extensive sandy waste, called the Campiac, where neither climate, soil, nor surroundings invite a settlement. The commune has from time immemorial been a sort of asylum for insane persons, who are lodged and boarded in the houses of the peasantry, and are controlled and employed by them, without recourse to walls or ha-has, or other asylum appliances, and with little coercion of any kind.

Ghelemedjik, (ge-len-jik',) a bay and scaport of Circassia, on the Black Sca. It has a good harbor, at the entrance of which the bay is about a mile in width. Lat. 44°30′ N., Lon. 38°3′ K.

Ghent, (gont.) [Fr. Gand.] An old city of Belgium, cap, of prov. E. Flanders, lies at the point where the Lr., Lieve, and Moere fall into the Scheldt, 30 m. N.W. of Brassels; Lat. 51° 3′ 12° N., Lon. 3° 43′ 51″ E. It is divided by numerous canals, (many of which are navigable.) into 26 islands, joined together by means of over 300 small wooden bridges. The circumference of the city within the walls is about 8 m., and the entrance to this, the main portion of the city, is by 7 gates. A large propor-

wooden bridges. The circumference of the city within the walls is about 8 m., and the entrance to this, the main portion of the city, is by 7 gutes. A large proportion of this space, however, is occupied by gardens, &c., not to speak of what is covered by the canals and rivers. Along the canals are splendid quaya, often bordered by magnificent rows of trees, furnishing beautiful promendes. In the old part of the city the streets are crooked and narrow, but present curious examples of the civil architecture of the Middle Ages (Fig. 1154.) Prominent



Fig. 1154. — GHENT.

among the objects of attraction are the ramparts, which from their great extent form delightful promensies. The principal of the 13 public squares contains a status of the emperor Charles V., who was born here, but who loaded the inhabitants with exactions, built a citadel to overswe them, and left the Gantois but little reason to overawe them, and left the Gantois but little reason to revere his memory. The cathedral, noble as regards its interior decoration, the church of St. Michael, containing a Crucifixion by Van Dyk, and the Benedictine Abbey, are edifices well worthy of notice. G. is the see of an archbishop, and the head-quarters of the military commandant for Flanders. Manaf. Fine lace, cotton, linen, and to a smaller extent, silks, woollens, soap, jeries, and paper-mills also exist, but the great branch of interior is cotton wearing. It has an active transit rade elry, chemicals, and leather. Tannerica, angar-refineries, and paper-mills also exist, but the great branch of industry is cotton-weaving. It has an active transit trada, being connected with Bruges and Terneuse by shipcanals. P. (1885) 161.240.—G. is mentioned in history as early as the 7th century. About the year 86b, Baldwin Bras-de-Fer, the first count of Flanders, Built a fortress here as a defence against the Normans. Under the counts of Flanders, G. continued to prosper and iscrease, until, in the 14th century, it was able to seed 50,000 men into the field. The wealth of the citizens of G., and the unusual measure of liberry which they rejoyed, encouraged them to resist with arms any attempt to infringe upon their peculiar rights and privileges. This readiness to arm in their own defence is exemplified in the famous insurrection of Jacob van Arterelde (q. v.), and other instances. For many years it maistained a vigorous but unavailing resistance against the dukes of Burgundy—who wished to be recognized as counts of Flanders—and the kings of Spain. In the various wars of which the Netherlands has been the battle-ground, G. suffered severely, and was frequestly taken. In 1792 the Netherlands fell under the power of France, and G. was made the capital of the department of the Scheldt, continuing under French dominion until the fall of Napoleon, in 1814. The treaty of peece between the U. States and Great Britain was signed hes Dec. 24, 1814.

Dec. 24, 1814.

Ghent, in Kentucky, a post-village of Carroll co., on the Ohio River, about 59 m. N. of Frankfort.

Digitized by GOOQIC

Ghent, in New York, a post-town and township of Columbia co., about 25 m. S. E. of Albany. Mossef. Flour and paper. Pop. (1897) about 3,060.
Ghentia, in Ohio, a post-office of Summit co.
Ghentia, in Ohio, a post-office of Summit co.
Ghertiash, a town of British India, pres. of Bombay. It was the principal port of Augria, a famous piratical prince, whose fort was taken and his whole deet destroyed, by the English and Mahrattas, in 1756. Lat. 150-45' N. Lon. 739' E. Pop. Unascertained.
Gherkin, (gur'kin,) n. [Ger. gurke, a cucumber.] A small sort of cucumber much used for pickling.
Ghet'to, n. [It.] That quarter of the city of Romewhere the Jews are permitted to reside.
Ghib'ellimes, n. pl. (Hitt.) On the death of Lothaire II., Emperor of Germany, Dec. 4, 1137, Conrad, Duke of Stabia, and Lord of Weiblingen, (which by curruption became Ghibelline,) was elected his successor. His right to the imperial throne was, however, disputed by Henry the Proud, Duke of Saxony and Bavaria, (and nephew of Guelph II., Duke of Saxony and Bavaria, (and nephew of Guelph II., Duke of Saxony and Bavaria, (and the whole empire was divided into the partisans of Conrad, who assumed the name of Ghibellines, and those of Itenry, or the Guelphs. These titles were first used at the battle of Weinsberg in 1140. The striffe between the two parties subsided in Germany, but continued in Italy, resulting in war in 1159. The supporters of the popes were termed Guelphs, and those of the emperors Ghibellias. Charles of Anjou expelled the Ghibellines from Italy in 1298; but the context between the two factions continued until the French Invasion in 1495 united them against a common enemy.

Ghiber'15, Lorenz 1, a distinguished Italian sculptor.

Italy in 1288; but the contest between the two factions continued until the French invasion in 1495 united them against a common enemy.

Shiber'14, Lorry, a distinguished Italian sculptor, a at Florence, 1381. In 1401 he was the successful competitor for the execution of the bronze-gate of the Baptestery at Florence, Brunelleschi, his only real rival, generously withdrawing from the contest. The gate, in 28 panels, was not completed till 1424, and the same year G. undertook to make a second gate. This was finished and set up in 1452. The marvellous beauty of the reliefs on these famous gates drew from Michael Angelo the assertion that they were worthy to be the gates of paradise. During the progress of this, his chef-deuvre, G. executed many statues, bas-reliefs, and pieces of gold-smithst work; a mitre and cope button for Pope Martin V, a "cassa," or reliquary of St. Zonobius, for the Duomo of Florence, &c. He was for several years joint architect with Brunelleschi of the Duomo, but the engagement only showed his incapacity as an architect, and his mercenary disposition. D. at Florence, 1455, and was buried in Santa Cruce. Among the scholars and assistants of G. were his two sons, Vittorio and Tommaso, Michelozsi, and Antonio Pollajulo.

Shiffam, also called Diller, (the country of the Gelz or the

G. were his two sons, Vittorio and Tommaso, Michelozsi, and Antonio Pollajaolo.

Ghi'lam, also called Dilen, (the country of the Gele or Cadesti,) a province of Persia, between Khirvan on the N.W., and Mazendéran on the S.E., extending along the shores of the Caspian Sea, having a length of about 200 m., by 150 in width. It is supposed to be the Hyroznic of the ancienta, possesses a fertile soil, and the heat, which would otherwise be very oppressive, is tempered by the breezes from the Caspian. G. is one of the provinces ceded to Russia in 1723, by Shah Tannasp. Russia in the next year gave it over to the Sublime Porte, which restored it to Persia in 1737. Prod. Silk, wine, oil, rice, tobacco, and excellent fruits. Cap. Reshd. Pop. 550,000.

Ghir, Gheer., (Capp.) (peer, Ja headland of Morocco, 82 m. from Mugadore; Lat. 30° 37' 30' N., Lon. 9° 52' 30' W. Ghirlandajo, (peer-lan-da'yo,) Domenico Corrant, a Florentine painter, B. 1451, was the first to attempt the imitation of giding by the aid of color, and to give depth to painting by the gradation of tints. His Massacre of the hancents, painted al frasco in the church of St. Maria Novella at Florence, is very much admired, and in the Museum of the Louvre is preserved his Vinit of St. Maria to the Virgia. His greatest claim to distinction is the fact that he was the master of Michael Angelo. D. 1495.

Ghi'seh, a small town of Egypt, on the W. bank of the Nile, 3 m. from Carlo. In its neighborhood is the Great Pyramid, in which fact is to be found the only claim of G. to importance.

Ghisml., Ghuzmee, (gir'ner.) a fortified city of Af-

Ghizmi, Ghuzmee, (gir'ner.) a fortified city of Afchanistan, built on a hill at the extremity of a moutain range, 7,720 feet high, and 80 m. S.W. by 8. of
Cabul. Lat. 33° 34' N., Lon. 88° 18' E. It was formerly
the capital of a powerful empire of the same name. From
the great number of illustrious persons there interred,
it is sometimes called the second Medina. Pop. 8,800.
It has belonged to the British since 1842.
Ghiz'mi, Ghuz'mee, a river which rises about 10 m.
from the town of Ghizni, Afghanistan, and falls, after a
course of some 60 m., into the Lake Abistada.
Ghe'gra, Geg'ra, a river of India tributary to the
Ganges. It rises nearly 18,000 feet above the sea-level,
and joins the Ganges in Lat. 25° 46' N., Lon. 84° 40' E.
after a course of about 600 m.
Ghole, s. Same as Ghout, q. c.

Chole, w. Same as Geout, q. r.
Chore, (gūr.) a town and dist. of Afghanistan, 115 m. S.E.
H.rat. It was the original possession of Mahmoud of
Ghore, who, in the 12th century, founded the Afghan dynasty, ... [A. S. gast; Ger. geist, spirit, breath.] The soul of man; the spirit.

"Oft did I strive To yield the ghost."

The soul of a deceased person: the soul or spirit separate from the body.— A spectre; an apparition.

"Stalked off reluctant, like an ill-used ghost." — Blair.

The Composition of the Comforter.

Holy Ghost, (Order of U.e.) The principal military order of France under the old regime; instituted in 1574 by Henry III., for nobles only; abolished at the Revolution; reconstituted in 1815; and definitively suppressed in 1830. The give up the short, to die; to yield up the spirit.

Ghost Tike, a. Resembling a ghost; withered; having

Ghost like, a. Resembling a ghost; withered; having sunken eyes; ghastly.
Ghost ly, a. Spiritual; relating to the soul; not carnal, corporesl, or secular; as, "a ghostly friar." Shaks.

Of, or belonging to, spectree or apparitions.
Ghoul, (good, s. [Per. ghod, ghât; ghuwod, which are respectively the names of imaginary deities or demons inhabiting the groves, mountains, and woods.] A fabled dwarfish fairy or demon of the Eastern nations, that feeds on human fisch.
Ghungal, blease, (coord, bit's ar.) a town of Anatolia

dwartsn tairy or demon of the Eastern nations, that feeds on human fiesh.

Ghuzel-hissar, (goo-sel-his'sar.) a town of Anatolia in Asia Minor, 55 m. from Smyrna. G. is the anc. Tralles. Ptp. 7,000.

Glasilolimo. (jal-lo-le'no.) n. [It. giallorino, from giallo, yellow, allied to A. S. gclis; Ger. gelb.] An earth of a bright gold color, found in the Neapolitan territory. It is very fine, and much valued by painters as a pigment.

Gl'amt, n. [Fr. géant; Lat. gigas, Gr. gigas, g-yantos, from ge, the earth, and genezihai, to be born.] A man of extraordinary bulk and stature.—A person of extraordinary strength or powers, bodily or intellectual. (Hist.) The existence of a race of G., or of individual instances far exceeding those exhibited in modern times, was fully believed in up to the commencement of the present century. This belief was founded partly upon scriptural evidence, partly upon the discovery of enormous bones supposed to be those of human beings, and partly upon the accounts handed down by aucient and medisoval writers. In the Old Testament, the name of G. is applied to several races of men; but the appellation several traces of men; but the appellation several traces and avisable avisable and avisable avisabl mediaval writers. In the Old Testanent, the name of G. is applied to several races of men; but the appellation seems to refer more to violence and physical power than to stature. The Anakim and wome other tribes seem, how ever, to have been distinguished from other races by their superior strength and proportions. There are several instances in the Scriptures of individual G.; such as Og and Gollath. The height of the former is not mentioned, but the latter, at most, did not exceed 8½ feet in stature. In most of the cases where the existence of G. has been based upon the discovery of colossal bones, it has been afterwards discovered that the remains were not those of human before but of extinct anadysmiss. of human belovered that the remains were not noise of human beings, but of extinct quadrupeds. In 1456, the bones of a supposed G. were exposed by the action of the Rhone. The height of this G. was estimated at 30 feet, but the bones were probably those of an elephant. In 1613, the remains of another supposed G. were found on the Rhone; it was stated that the skeleton had been on the knone; it was stated that the skeleton had been found in a tomb 30 feet long, bearing the inscription "Teutobochus Rex." The Parisians crowded to see the bones of the King Teutobochus; but it was afterwards found that the remains were not those of a man, but of a mastodon. Dr. Mather, in 1712, announced the discovery of the bones and teeth of a G. in the State of New York. The afternant was unlikelyed in the Philicophi. York. The statement was published in the Philosophical Transactions; but it was subsequently accrtained that the bones in this case also were those of a mastodon. York. The statement was published in the Philosophical Transactions; but it was subsequently ascertained that the bones in this case also were those of a mastodon. Among classical writers, instances are numerous of G., but not worthy of belief. Plutarch states that, when the grave of Antesus was opened by Serbonius, the body was found to be full 60 cubits long. Piny also relates that, at an earthquake in Crete, the bones of a G. 46 cubits in length were disclosed. Coming to more reliable evidence, it seems certain that a height of even more than 9 feet has been attained. In the museum of Trinity College, Dublin, there is a skeleton 8 ft. 6 in. in height; in the museum of the Boyal Coll. of Surgeons of England, is another 8 ft. 2 in.; and snother in the Museum at Bonn, 8 ft. Great diversity, as to height and size, prevails among the human race. In northern latitudes, men are below the ordinary standard, many being less than 4 ft. In temperate climates, the height varies from 4/z to 6 ft.; but this is sometimes exceeded, as mentioned above. As a general rule, G. are of rarer occurrence than dwarfs; they are usually of a lymphatic temperament, of a delicate complexion, often deformed, and generally badly proportioned. Their muscles also are finiby, and their voices weak. They are seldom long-lived, and in this respect are the reverse of dwarfs. O'Byrne, whose skeleton is in the Royal College of Surgeons of England, died at 22, while Browlaski, the dwarf, died at 98. It has also been observed that G. show a want of activity and energy both in body and mind, while dwarfs are usually lively, active, and irascible. The causes which occasion the production of G. are not much understood. According to Geoffroy Saint-Hillaire, Bishop Berkeley attempted to manufacture a G. He reared an orphan boy, named Magrath, on certain hygienic principles, and succeeded so far that at the age of 17 he was 7 feet in height. He died, with all the symptoms of old age, when he had completed his 20th year, at which time he was 7 ft. 8 in. h have been banished after their unsuccessful attempt upon heaven, when the gods, with the assistance of Hercules, imprisoned them under Ætna and other volcances. Their reputed origin, like the places of their abode, points to the idea of the mysterious electrical and volcanic convuisions of nature, which they olviously typlfy; and, in accordance with this view, they are said to have been of minuled heavenly and earthly descent, and to have sprung from the blood that fell from the slain Ourance upon the earth, Gé, which was their mother.

Holy Ghost. The third person in the Trinity, called | Gl'amt, a. Extraordinary in size, strength, or capacity,

GIBB

physical or mental.

Gl'antess, n. A female of extraordinary size and

Gl'antess, n. A female of extraordinary size and stature.

Gl'ant's Causeway, (\*dw'zi,) a series of curious besaltic formations, in Ireland, on the N. coast of co. Anstrim, between the headlands of Bengore and Fairhead. The whole formation is abt. 8 m. in extent; but the Causeway proper, abt. 2 m. N.N.E. of Bushmills, is a platform composed of closely arranged columns of basslt, generally hexagonal or polygonal prisms of short irregular lengths piled vertically. It is about 25 ft. high, 350 ft. in breadth, and abt. 600 ft. in length, running out from a steep cliff until lost beneath the sea. The regularity of these columns gave rise to the legend that it was the work of giants. It is connected with the town of Portrush, 6 m. off, by an electric R. W., opened in 1833. Gl'antahip, n. Quality or character of a giant.

"His giantahip is gone somewhat crestfalen." — Hitos.

"His giantskip is gone somewhat crestfallen." — Milton.

"His giantable is gone somewhat crestfallen." — Mitton.

Gianour, (jour.) n. [Turk. gidour; Per. gdur, an infidel.] A term applied by the Turks to all who reject Molammedanism, especially to Europeau Christians. Though at first used exclusively as a term of reproach, its signification has been since modified, and now it is frequently employed merely as a distinctive epithet. Sultan Mahmoud II. forbade his subjects to apply the term G. to any European.—G is the title of a poem written by Lord Byron, published in 1813.

Gi'ard, in lossa, a post-township of Clayton co.

Gi'arretta, or Sime'to, (provetta.) a river of Sicily, which, with its affluents the Adriano, Trachino, Dettaino, and Chrisas, waters the plain of Catania, and the portion of the island W. of Mount Etna. It rises 20 m. S.E. of Caronia, and after a very tortuous course of 50 m. enters the Mediterranean 6 m. S. of Catania.

Giavem'mo, a town of Italy, on the Sangone, at the foot of the Cottian Alps, 16 m. from Turin; pop. 10,500 Gib, m. (Mach.) A piece or slip, notched or otherwise, in a machine or structure, to hold other parts together, or keep them in place:—usually held in its own place by a wedge or key, or by a screw.

Gib'ber (jib'br.) n. A balky horse.

Gib'ber (jib'br.) n. A balky horse.

Gib'ber (jib'br.) n. A balky horse.

Gib'ber (jib'br.) n. By corruption from gabble or jabber.]

Rapid and inarticulate talk; unintelligible language; unmeaning words.

"Upen reading this gibberiah."—Swift.

unmeaning words.

Upon reading this gibberish."

—a. Unmeaning; unintelligible, as words.

Gâb'bet, w. [Fr. gibet; Lat. gabalus, a word of German origin; Mod. Ger. gabet, a fork, the fork of a tree.] A gallows; a post or machine in the form of a gallows, on which notorious malefactors were formerly hanged in chains. —The projecting beam of a crane, on which the pulley is fixed.

—v. a. To hang and expose on a gibbet or gallows.

e.c. a. To hang and expose on a gibbet or gallows.

"I'll gibbet up his name." — Oldhem.

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"I'll gibbet up his name." — Oldhem.

Hylobates, order Simiadæ, including apes, or tailless monkeys, natives of the East Indies. They are nearly allied to the orangs and chimpanzees, but are of more slender form, and their arms so long as almost to reach the ground when they are placed in an erect posture; there are also maked callosities on the buttocks. The canine teeth are long. The G. are inhabitants of forests, their long arms enabling them to swing themselves from bough to bough, which they do to wonderful distances, and

selves from bough to ful distances, and with extreme agil-ity. They cannot, however, move with ease or rapid-ity on the ground. The conformation of the hinder extremi-ties adds to their difficulty in this, while it increases their adaptation to a life among the a life among the branches of trees, the soles of the feet



Fig. 1155. — GIBBON, (H. lar.)

branches of trees, the soles of the feet Fig. 1155.—GIBHON, (H. lar.) being much turned inwards. None of the gibbons are of large size. The common gibbon (H. lar.), (Fig. 1155.) is black, but the face is commonly surrounded with a white or gray beard. The white-handed gibbon (H. Albimana,) native of Sumatra, is black, with the four hands white. Another white gibbon is entirely white, except the face and hands, which are black.

Gibbon, Edward, a celebrated English historian, was B. at Putney in 1737; sent to Westminster School, but soon transferred to a private tutor; then to Magdalen College, Oxford, where he became a convert to the Roman Catholic Church; and finally to Lausanne, where he renounced the Catholic faith, without embracing any other, and became a confirmed sceptic. On returning to England, he entered upon the duties of active life, but read much, and prepared himself for authorship. In 1763 he went to Italy; and while sitting amidst the ruins of the Capitol at Rome, he conceived the idea of writing the history of the decline and fall of that city. In the meantime, he joined M. Deyvurdun, a Swiss scholar, in publishing a journal called Mémoires Littéraires de la Grand Bretagne, which met with no success. In 1770 he began his celebrated history of the Decline and Fall of the Roman Empire; the last vol. of which, in 4to, appeared in 1776; the 2d and

3d in 1781; and the 3 concluding vols. in 1788. Previous to this undertaking, G. was chosen member of parliament for Liskeard; and when hostilities commenced between England and France, in 1778, he was employed to draw up the manifesto on that occa-sion, after which he was made Commissioner of the Board of Trade, but lost his place on the change of adminisor 17ade, but 10st his place on the change of auministration in 1783. He then went to reside at Lausanne, where he remained till the French Revolution obliged him to return to England; and b. in 1794. G.'s great history abounds with proofs of immense learning, of a mind penetrating and sagacious, and of almost unvalled talents for ridicule. No other proof of the substantial trustworthiness of the "Decline and Fail" is

valled talents for ridicule. No other proof of the substantial trustworthness of the "Decline and Fall" is needed than the fact, perhaps unparalleled, that, not withstanding the very great advance made in historical studies and criticism during the present century, it still holds its place as the history of the period it embraces. 

6Hb'booms, n. (Naul.) Same as JIn-Boom, q. r. Gibboom, a. (Naul.) Same as JIn-Boom, q. r. Gibboom, a. (Fr. gibbox; Iat. gibbosus, from gibbus, a hunch or hump; Gr. kuphos, beut; Heb. gah, convex.] Hump-backed; humped.

—A term applied to a surface which presents one or more large elevations.

Gib'boosite, n. (Min.) Native hydrate of alumina. It occurs in small stalectitic shapes, or mammillary and incrusting. Color, white, grayish, greenish, or reddishwhite. A strong argillaceous odor when breathed upon. Comp. alumina 65°6, water 34°4. Occurs at Richmond and Lenox, Mass. Sp. gr. 23-24.

Gibbos'ity, n. [Fr. gibbonik.] Protuberance; a round or swelling prominence; convexity.

Gibbos'ity, n. [Lat. gibbus. See Gissous.] Swelling: protuberant.—(Astron.) The swelling or convex appearance of the moon when more than half full or enlightened. In the telescope, the planets Mercury.

Venus, and Mars exhibit a similar appearance.

Gib'bounsly, adv. In a gibbous or protuberant form.
Gib'bounness, n. Same as Gibbous T, q. v.
Gibb's Cross Roads, in Tennesse, a P.O. of Macon co.
Gibbs ville, in Wisconsin, a post-village of Sheboy-

gan co.

Gibe, (jibe,) v. n. [A.S. gabban; Icel. gabba. See JabBER.] To make a wry mouth or face; to jeer: to deride; to delude; to rail; to utter taunting, sarcastic
words; to flout; to fleer; to scoff; to sneer.

When you pertly raise your snout, Fleer and gibe and laugh and flout." — Swift.

-v.a. To reproach with contemptuous words; to de-ride; to scoff at; to treat with sarcastic reflections; to taunt; to ridicule; to jeer; to mock.

"You did gibe my missive out of audience.

n. An expression of censure mingled with contempt; a word of surcastic scorn; a scoff; a taunt; a jeer; a

a word of auroastic scorn; a scoll; a taunt; a jeer; a sneer; a reproach.

Gib'eah. (Script.) The birth-place of Saul, and the scene of Jonathan's romantic exploit against the Philistines, about 5 m. N. by E. of Jerusalem.

Gib'eom. (Script.) A considerable city of the Hivites, afterwards a Levitical city of the tribe of Benjamin. It lay on an eminence, 6 m. N. of Jerusalem, near Geba and Gibaah. and Gibeah.

It lay on an eminence, 6 m. N. of Jerusalem, near Geba and Gibeah.

Gib'er, n. One who mocks, scoffs, jeers, or derides.

Gib'esouville, in Onio, a post-office of liceking co.

Gib'ingly, adv. With censorious, sarcastic, and contemptuous expressions; scornfully.

Gib'lets, n. pl. [Goth gibla; Chald. caph, a wing.]

Those parts of poultry usually excluded in rosasting, as the head, feet, pinions, heart, gizzard, liver, &c.

Gibraltar, (jib-rawl'tr.) a strongly fortified sea-port belonging to Great Britain, in the S. part of Spain, adjoining the narrowest part of the strait connecting the Atlantic and Mediterranean, to which it gives name; 6l m. S. &. of Cadiz, 93 S. by &. of Seville, and 312 m. S. S. W. of Madrid; Lat. 36° 6' 30' N., Lon. 50° 21' 12'' W. Ara, 13'

sq. m. The fortress stands on the W. side of a mountainous promontory or rock (the Mons Culps of the ancients), projecting into the sea S. abt. 3m., being from 1/2 to 3' m. in breadth. It N. side, fronting the low, narrow isthmus which connects it with the mainland, is perpendicular, and wholly inaccessible; the E. and S. sides are steep and rugged, and extremely difficult of access, so as to render any attack upon, even if they were not are steep and rugged, and extremely diment of access, so as to render any attack upon, even if they were not fortified, next to impossible; so that it is only on the W. side, fronting the bay, where the rock declines to the sea, and the town is built, that it can be attacked with the faintest prospects of success. Here, however, the strength of the fortifications is such that the fortiges seems imprographle area though extended to the contract of the fortifications is such that the fortiges seems imprographle area though extended to the contract of the fortifications in such that the fortiges seems imprographle area though extended to the contract of the fortifications are the contract of the trees seems impregnable, even though attacked by an enemy having command of the sea. The principal batteries are all casemated, and traverses are constructed to prevent the mischief that might ensue from the explosion of shells. Vast galleries have been excavated in the solid rock, and mounted with heavy artillery; and communications have been established between the different batteries by passages cut in the rock, to pro-tect the garrison from the enemy's fire. In fact, the whole rock is lined with the most formidable batteries, whole rock is lined with the most formidable batteries, from the sea to the summit, and from the land-gate to Buropa Point; so that if properly victualled and garrisoned, G. may be said to be impregnable. The town, at the foot of the rock on its N.W. side, has a principal atteet, nearly a mile long, well-built, paved, and lighted. The principal buildings are the governor's house, admiralty, naval hospital, victualling office, and barracks. As a commercial station, G. is of considerable importance, and the advantage which its possession confers on Great Britain, though wholly of a political character, is most important. It is, as it were, the key of the Mediterranean; and while its occupation gives the means; of effectually annoying enemies in war, it affords equal facilities for the protection of British commerce and



Fig. 1156. — GIBRALTAR.

shipping. Pop. (1895) 20,160.—Hist. G., the Culpe of the Greeks, formed, with Abyla on the African coast, the "Pillars of Hercules." Its name was changed to Gibel Furif, or mountain of Tarif, at the beginning of the 5th cent., when Tarif Ebn Zarca landed with a largearmy to conquer Spain, and erected a strong fortress or army to conquer Spain, and erected a strong fortress on the mountain side. During the Moorish occupation of Spain, it increased in importance, but was at length taken by Ferdinand, king of Castile, in the 14th cent. It was, however, soon recaptured, and did not become the appanage of Spain till 1462. Its further history till its conquest by the English, in 1704, is unimportant. During the war of the Spanish Succession the English and Dutch fleets, under Sir Geo. Rooke and the Prince

During the war of the Spanish Succession the English and Dutch feets, under Sir Gro. Rooke and the Prince of Hesse-Darmstadt, attacket \$G\_\*\$, which surrendered after a short resistance. The Spaniards, during the 9 years following, vainly endeavored to recover it; and, in 1713, its possession was secured to the English by the peace of Utrecht. In 1727 the Spaniards blockaded it for several months without success. The most memorable, however, of the sieges of \$G\_\*\$ is the last, begun in 1779, and terminated in 1783, when it successfully resisted the combined French and Spanish fleets.

\$G\_\*\$, (BAY OF.) This inlet of the sex is formed by the headland of Cabrita and Europa Point, 4 m. distant from each other, and is spacious and well adapted for shipping, being protected from all the more dangerous winds; the extreme depth within the bay is 110 fathoms. To increase the security of the harbor, two moles have been constructed, which respectively extend 1,100 and 700 ft. into the bay. The Spanish town and port of Algesiras lie on its W. side.

\$G\_\*\$, (Sirantsor,) (anciently the Straits of Hercules.) The straits connecting the Mediterranean Sea with the Atlantic Ocean extend from Cape Spartel to Cape Ceuta, on the N.W. coast of Africa, and from Cape Trailgar to Europa Point on the S.W. seaboard of Spain. They narrow towards the E., their width between Europa Point and Cape Ceuta being only 15 m., while at the W. extremity it is 24 m. Length, E. to W., about 36 m. Through these straits aconstant current runss ostrongly from the Atlantic that sailing-vessels bound westward can pass them only by the aid of a Levanter, or strong treeze from the E. It is believed that the waters of the Mediterranean find an outlet here by means of an undercurrent.

Sibral tax, in Michigan, a post-village of Wayne co.,

current.

Gibral'tar, in Michigan, a post-village of Wayne co.,
on Detroit River, about 22 m. below Detroit.

Gibral'tar, in Wisconsin, a township of Door co., on
Lake Michigan, about 55 miles north-east of Green

Gibral'tar-stone, n. (Min.) A beautiful variety of stalagmite from Gibraltar Rock. It is cut into small fancy articles.

om, Richard, called the Dwarf, an English painter who studied under De Cleyn, became page to Charles I., and married a dwarf named Anna Shepherd, at which bridegroom measured each about 3 ft. 10 inches. had 9 children, all of ordinary stature, and whi Bride had 9 children, all of ordinary stature, and while the husband died in his 75th year, the wife lived to be 89 and died in 1709.

Gib'son, John, R. A., a distinguished English sculptor

B. 1791. His early years were passed in a stone-mason's shop at Liverpool, until Mr. Roscoe (the historian of Lec &c.), discovering G 's remarkable aptitude for art him to Rome to study under Canova. In that city he passed nearly the whole of his after-life, becoming a pupil of Thorwaldsen after the death of his first great maspil of Thorwaldsen after the death of his first great mas-ter. G. greatly excelled in portrait statuary, and by the study of the antique rose to ideal purity, and a thorough realization in the grace of form. His chief works are Mura and Cupid, now in the Duke of Devonshire's Chats-worth Collection; Psyche borne by the Zephyrs, executed for Sir Geo. Beaumont; The Wounded Amazon (in the Grosvenor Gallery); and the fumous Tinted Venus, which appeared in the London Great Exhibition of 1862. Among his portrait-statues, those of Huskisson and Peel, George Stephenson (the engineer), and Queen Victoria, are his finest productions. G.'s grund innovation of tinting his figures — which he defended by a reference

to Greek precedents—excited much controversy and cannot be said to have been generally successful in its adaptation to the public taste. Died in 1866. Glb\*som, in Georgia, a post-village, cap. of Glassock co, about 48 m. W. S. W. of Augusta.
Glb\*som, in Indiana, a S. W. county, bordering on Illinois; area, about 490 sq. m. Risers. Wabash, White and Patoka rivers. Surface, undulating; soil, fertile. Ma. Coal. Cap. Princeton. Pop. (1897) about 30,200.

—A township of Washington co.
Glb\*som, in New York, a post-village of Steuben co., about 200 m. W. by 8. of Albany.
Glb\*som, in Ohio, a flourishing township of Mercer co.
—A village of Pike co.

-A village of Pike co.

Gib'son, in Pennsylvania, a flourishing township of

Cameron co.

Gib'som, in Pennyloana, a flourishing township of Cameron co.

—A post-borough of Susquehanna co., about 16 m. E.S.E. of Montrose. Pop. (1897) about 1.240.

Gib'som, in Tennesse, a W. county; area, about 615 sq. m. Rivers. Rutherford's fork of Obion river, and the N. and middle forks of Forked Deer river. Serface, diversified; soil, fertile. Cap. Trenton. Pop. (1890) 35,559.

Gib'som, in Wiscossia, a township of Manitowoc co.

Gib'som, in Mediana, a post-office of Lake co.

Gib'som City, in Illisois. a post-own of Ford co., 36 m. E. of Bloomington. Pop. (1890) 1.803.

Gib'som's Stationa, in Verginia, a post-office of Lee co.

Gib'som's Stationa, in Verginia, a post-office of Siera co., abot. 28 m. N. of Downieville.

Gibsonville, in N. (arolina, a post-village of Gilford co., abit. 15 m. S.S.W. of Greenborough.

Gibsonville, in New York, a post-village of Livingston co., about 235 m. W. by N. of Albany.

Gib'soff, n. A long staff to gauge water, or used to shove off a boat.

where of a boat.

Gid'dily, adr. In a giddy manner; with the head seeming to turn or reel.—Inconstantly; unsteadily; seeming to heedlessly.

s., n. State of being giddy; dizziness; ver-Gid'dine

tigo; a swimming of the head.

"Begin with giddiness, and end in pain." — Foung.

-Inconstancy; unsteadiness of mind or manner; volatility; changeableness; unstability; wantonness; levity; lightness of disposition.

Thou dost repent these van "Thou dost repeat these vanies and grader. Probably alined to Hind. behhood, intoxicated. Etymol. unknown.] Vertiginous; recling: dizzy; whirling; having in the head a sensation as of a circular motion or swimming.

"By giddy heads and stagg ring legs betray'd." — Tate. That which induces giddiness; as, a giddy height. "The giddy precipios, and the dang rous flo

Whirling; gyratory; running round with celerity; re-

tatory.
"The glddy motion of the whirling mill." Inconstant; changeable; unstable; fickle; as, the "giddy vulgar." — Dryden.

"Our fancies are more giddy and infirm than women's are "Shabi -Heedless; careless; frolicsome; elated to thoughtless ness; rendered wild by excitement or joy; as, a *giddy* girl. "Young heads are giddy." - Couper.

n. To reel; to turn quickly.

"Our course constrain to giddy round." - Chap "Our course constrain to giddy round." — Chapmen.
—o. a. To render dizzy or vertigitions; to make unsteady.
Gid'dy-headed, M. A heedless, thoughtless person.
Gid'dy-headed, Gid'dy-brained, o. Careles;
heedless; thoughtless; unsteady; volatile; incantions.

"Our giddy-headed antic youth will wear." — Donne.

"Our giddy-hoaded antic youth will wear." — Donna. Gidd'eom, a famous judge of Israel, z. c. 1249 to 1209. Giden, (shè-an'.) (anc. Gianum.) a town of France, dept of Loiret, cap. arrond. on the Loire, 37 m. S.E. of Orleans. Manuf. Earthenware, serge, and leather. G. has a hon-some stone bridge across the Loire. Here, in 1410, a treaty was signed by the young Duke d'Orleans, with the dukes of Berry, Bourl-on, and Brittany, against John the Fearless, Duke of Burgundy, to avenge the assassination of his father. Louis I.

of his father, Louis 1.

Glemgene, (gengen.) a town of Würtemberg, on the
Brenz, 22 m. S.S.E. of Kilwangen. Manuf. Linens, wollen goods, and cutlery. Pop. 2,500. In the neighborhood of G. are the Baths of Wildbad.

hood of G. are the Baths of Wildrad.

Gier-eagle, (jérégi,)n. [Ger. geier, a vulture; L Lat.

gira, Gr. hiedaz, a lawk or falcon, an eagle.] The

vulture-eagle; a bird of the eagle kind. — Ler. xi. R

Gie'secklie, n. (Min.) A hydrated silicate of alumina

and potash from Greenland. It occurs in hexagosal

prisms of a grayish-green or brownish color. Sp. gr.

78-2-85

278-285.

Giessem, (očěřen.) a town of Germany, cap. prov. Upper Hesse, on the Lahn, 47 m. N. by E. of Darmstadt, and 49 m. E.N.E. of Coblentz. G. has a castle, town-ball, observatory, and university; which latter has, under Baron Liebig, become famous as a school of organic chemistry, and is attended by many students from the U. States, as well as from all parts of Europe. G. was formerly fortified, but the wall surrounding it has been converted into a promenade. Manuf. Woollen goods, leather, tobacco, &c.

converted into a promenade. Manuf. Woollen good, leather, tobacco, &c.
Giff, conj. [A.S. See Ir.] If. (Old form of if, frequently found in the early English writers.)
Gifff'-gaff. n. Reciprocal accommodation:—an old English phrase resuscitated by Sir Walter Scott.
Gifford, (jif'ford.) a village of Scotland, 4m. from Haddington; pop. 600. The celebrated reformer, John Knox, q. v., was B. here in 1505.
Giff'fy. n. Same as Jiffy, q. r.
Gift. n. [A. S., O. Ger., and Icel. The O. Ger. is from gebon, Goth. giben, A.S. pifan, Icel pria, to give

-Act of giving, conferring, or bestowing.
"All things thine by gift." — Mili

Some quality conferred by the Author of our nature; endowment; talent; faculty; qualification.

"Oh, Italia! thou who hast the fatal gift of beauty." -The right or power of conferring, giving, or bestowing. -ine right or power of conterring, giving, or bestowing.

(Law.) A conveyance which passes either lands or
goods; but when restricted to immovable property, it
signifies in its proper sense the creation of an estatetail. A gift of personal property differs from a grant in
being wholly gratuitous and without consideration.

-- a. To endow with any power, endowment, or faculty;

-- b. is gifted with alcounters.

-e. a. To endow with any power, endowment, or tacnity; as, he is gifted with eloquence.
Gift'edmess, n. State or quality of being gifted, or of possessing gifts.
Gig. (jig.) n. [Fr. gigue, a jig; It. giga, a stringed musical instrument.] A fiddle. (o. ora. To fish with a gig or fish-gig.
Gig., n. [It. giga, a lively dance; Ger. geige, a violin; L. Lat. giga; L. Sax. giga!; Fr. gigue, a jig.] A top or whirligig; a tectorum.

"Playthings as tops, gigs, battledores."—Locks.

—A light carriage having one pair of wheels, drawn by

one horse.
"Sir, his ambition is to drive his own gig."— Theo

A playful person; a wanton; a siglot.—(Mach.) A cylinder with rotary action for teazling woollen cloth.—A harpoon.—See Fiss-01c.
(Nast.) A long, light boat belonging to a ship; as.

(Nost.) A long, light boat belonging to a ship; as, the captain's gig.

Giganteam, (i-gan-le'an,) a. [Lat. giganteus. See Giaxt.] Like a giant; gigantic; mighty; extraordina-

Giant. Like a giant; gigantic; mighty; extraorumarily large.

Gigantesque, (ji-gan-lisk',) a. [Fr.] Of coloneal size; befitting a giant; as, "mock-heroic gigantesque."

Tranyson.

Gigantite, a. [Lat. giganticus—gigas. See Giant.]

Like a giant; of extraordinary size; very large; coloneal; excresive; huge; prodigious.

"The are of Harenian he justy seems."

sal; excessive; huge; prodigious.

"The see of Hereales be justly seems.
By his broad shoulders and gigestic limbs."—Dryden.
Enormous: vast; immense; as, gigantic wickedness.
Gigan\*tically, adv. In a gigantic or mighty manner.
Gigan\*ticide, n. [Lat. gigantic, giant, and cadere, to kill.] The act of slaying a giant.
Gigan\*tolite, n. (Min.) A mineral resembling Fahlunite in composition, r. It occurs at Tammelia, Finiand, in large 6- and 12-sided crystals of waxy lustre, and greenish to dark steel-gray color. Bp. gr. 286-287.
Gigantol'egy, n. [Gr. gigantomachia.] A war of giants; especially the mythological war of the giants against heaven.
Gilg'get, n. Boe Gigor.

giants against heaven.
Gig get, n. See Gigor.
Gig get, n. See Gigor.
A kind of laugh, with short, spasmodic catches of the

Giggle, v. n. [Dut. gichgelen, ginneken, to titter.] To lugh with short catches of the breath or voice; to

tugh in a silly, puerile manner; aa, a giggling girl.
Giggler, a. One who giggles or titters.
Giggler, b. One at town and parish of the W. Riding of verkshire, England, 1 m. W.N.W. of Settle; pop.

Gig gling, p. a. Laughing sillily or with short catches

Giglio, (jēži'yo.) [Lat. Iyitims.] An island in the Mediterranean, on the Tuscan coast, 10 m. S.W. of Argentaro; 5 m. in length; pop. 2,200.

Gigot, (shi'yo.) a. [Fr., a leg of mutton, from O. Fr. yiyue, the thigh; L. Lat. ischium, from Gr. ischion, the hip-joint; allied to ischus, strength.] The thigh of a sheep; a part of one of the hind-quarters separated from the flank at the hip-joint.

(Tookrev.) A leg of mutton.

Gi'Roon. [Hob., Valley of Grace.] One of the four rivers of Paradise, by must commentators believed to be the Araxes, (Gen. ii. 13.)

A fountain on the W. of Jerusalem, beside which king Solomon was anointed, (1 Kings i. 33.) Hersekish covered

Solomon was anointed, (I Kings i. 33). Herekish covered it, and brought the waters into the city by a subterm-beous conduit, (2 Thron. xxxii. 2.) The pool still exists. 30 ft. long. 200 wide, 30 deep. Some years ago, in dig-flug, the stone conduit of Hezekish was unearthed, 30 feet under ground, partly cut out of the solid rock, and running E. and W.

running E. and W.

Glion, (he-hont') a town of Spain, in the Asturias. IS m.

N.B. of Oviedo: Lat. 44° 55′ N., Lon. 5° 44′ W.

Manef. Linen fabrics, stone-ware, and hats. It has also considerable trade in fruit and nuts. Pop. 7.000.

Gl'ia Cliy, in Arizona Territory, a village of Yuma co, on the Glia River, abt. 24 m. E. of Arizona City.

Gli'bert, Josy, A.B. a., an English historical and genre painter, B. 1817. Among his finest works are Don Quizote piring advice to Suncho Punca; The Education of Gli Baiz; Othello before the Senate; Charge of Chvalirs at Nasely; Rubens and Trniers; The Studio of Rembrandt; Wolsey and Buckingham, &c.

See Giva.] Anything conferred, given, or bestowed; a present; a donation; a grant; an honorarium; a boon; an offering; a grantity; a reward; a bribe; — sometimes in a bad sense, as any thing given to corrupt the judgment.

True love to the gift which God has given a round the sum of the gift which God has given a round the gift which God has given a round to gift grant Archipelago in the Pacific, between Lat. 1º B. and 2º 30′ N., and Lon. 172° and 174° 30′ E., and contains a population of 60,000 The two largest are known as Drammond's lale and Knox's lale; the former is 30 m. long, by rather more than ½ m. broad; the latter 20 m. long. The inhabitants resemble the Malays in appearance, and are divided into three classes—chiefs, unadholders, and slaves. The chief, almost the only, cultivated products are the cocoa-nut and the pandanus.

Giffbertite, n. (Min.) A white silky mineral from Stonagwyn, Cornwall. Sp. gr. 236. Comp. Silica 45·15, alumina 40·11, oxide of Iron 2·43, magnesia 1·90, line 4·17, water 4·25.

Giffbertsborough, in Ala, a P.O. of Limestone co. Giffbert's Mills, in New York, a post-village of Otsego co., about 95 m. W. of Albany.

Giffbertswille, in Iosa, a P. O. of Black Hawk co. Giffbertswille, in Pensylvania, a post-village of Montgomery co.

Giffbertswille, in Pensylvania, a post-vifice of Montgomery co.

Giffbertswille, in Mass. a P. O. of Warester co.

gomery co. Gil'berts ville, in Mass., a P. O. of Worcester co Gil'bertsville, in Mass., a P. O. of worcester co.
Gil'bea., [Heb., bubbling fountain.] The name given
in the Old Testament to a range of hills, between 500
and 600 ft. high, overhanging the city of Jezreel, on the
eastern side of the plain of Eadra-lon. It is memorable
as the scene of the defeat and death of king Saul and

as the scene of the defeat and death of king Saul and his three sous.

GHI boss, in New York, a post-town and township of Schoharie co., on Schoharie river, 50 m. S.W. of Albany. Pop. (1897) about 1,920.

GHI boss, in Ohio, a post-village of Putnam co., on the Blanchard river, about 95 m. N.W. of Columbus.

GHI boss, in Virginia, a village of Louiss co.

GHI christ, in Illinois, a post-village of Mercer co., on the C. B. & Q. B.R.

the C., B. & Q. B.B.,
Gild, v.a. [imp. and pp. GILDED or GILT.] [A. S. gyldan,
from gold, to cover with gold.] To overspread with a
thin covering of gold; to cover with gold in leaf or

powder.
"To gild refined gold; to paint the lily."—Si

To cover with any yellow matter. es and the gilded puddle."—Shaks.

-To adorn with lustre; to render bright; to illuminate " A superficial thing that only gilds the appreb

To give a fair and agreeable external appearance to. "To gild a lie with happy terms."

Gil'dna, (St.,) surnamed the Wise, B. A. D. 516, in Britain. He presched in England and Ireland, and passed over to France, where he established the monastery of Ruys, near Vannes. D. either at Ruys, or at Giastonbury,

Gil'dias, (Sic.,) surnamed the Wise, B. A. D. 516, in Britain.

He preached in England and Ireland, and passed over to France, where he established the monastery of Ruys, near Vannes. D. either at Ruys, or at Giastonbury, England, in 555.

Gild'ed, p. a. Overlaid with leaf or a thin coating of gold; illuminated.

Gild'es, n. One whose trade or profession is to overlay things with gold.

Same as Guilder, q. v.

Gild'ing, n. (Arts and Mansf.) The art of applying a thin coating of gold to the surface of bodies by either chemical or mechanical means. The beauty and durability of gold render it the most valuable of all the metals for ornament. Its great malleability enables us to cover a large surface of other material with a very small quantity of it by mechanical means; and by the add of chemical agents it can be still more minutely divided and distributed over the surface of the body to be gilded. The process of suster-gilding is not now much used. By this means, silver, after being perfectly is cleaned, is gilded by rubbing it over with a solution of gold in mercury, or amalgam of gold. The article is then heated over a clear charcoal fire, by which the mercury is driven off and the gold left athering to the surface. Copper and brass are gilded by this process, by cleaning and rubbing the surface with nitrate of mercury first its amalignamated and enabled to retain the gold analgam when applied. It is then heated as before and burnished. The fumes of mercury driven off in the heating renders this mode of gilding wery unhealthy. It cannot, of course, be used for gilding metals that do not form an amalgam with mercury. Buttons and some kinds of jewelry are gilded by it; the quantity of gold required being so small that a gross of buttons I inchin diameter may be gilded in the process, by cleaning the surface with a gross of buttons in inchin diameter may be gilded on both sides with 5 grains. Metals may be gilded by inchin my inchin and gittated in it for abont a minute. If gold be dissoived in a solution of sal-a

means of a camel's-hair pencil. Porous substances, as silks, vory, &c., may be glided by wetting them with a solution of 1 part of terchloride of gold to 4 or b o water, and exposing them to the action of a current of hydrogen gas. For gliding metals the galvanic process is almost universally used. (For a description of it, see Electro-plating and Gilding.) For gliding wood, plaster of Paris, &c., only mechanical means are used. If intended for out-door work, the gold-leaf is laid on by the aid of gold size, i.e., drying-oil mixed with calcined red ochre; if for picture and looking-glass frames, &c., a size used make by boiling parchnent-clippings to a jelly and mixing with fine plaster of Paris or yellow ochre. The edges of books are gilded by brushing them over, while on the binder's press, with a composition of 4 parts of Armenian bole (see Bole) and 1 of powdered sugar-candy mixed with white of egg; when this coating is nearly dry it is smoothed, and the gold-leaf applied and burnished. The letters and figures on the covers of looks are put on by first dusting the surface with finely powdered mastic; the iron tool by which the figure is made is then heated and pressed upon a piece of gold-leaf, which adheres to it; it is then applied to the cover with pressure. The heated iron softens the mastic, and the gold is retained in the impression. In excaustic G, which is applied to glass and porcelain, finely divided with pressure. The heated from softens the mastic, and the gold is retained in the impression. In excustic G, which is applied to glass and porcelain, finely divided gold is first obtained from the chloride, by precipitating with protoculphate of iron or by heating ground up with  $\frac{1}{\sqrt{2}}$  of its weight of oxide of bismuth and some borax, mixed with gum-water, and applied with a camel's-hair brush. The article is then heated in an

some borax, mixed with guin-water, and the heated in an oven or furnace; the gum burns off, and the borax viting, coments the gold to the surface. A double sulphide of gold and potassium is also used for the same purpose, and produces the color known as Burgos lustre. Gill'eadl. [Heb., the hill of testimony.] A district of Palestine E. of the Jordan, extending S. from Mount Hermon, between the Jordan and the Arabian desert. Numerous references are made in the Bible to the stately oaks and herds of cattle in this region, which the present appearance of the country fully corrolevates. (Gen. xxxi. 46, xxxvii. 25; Num. xxxii. 1.) The name G. is sometimes used for the whole country E. of Jordan, but the region strictly called G. lay S. of Bashan. The distance of the work for the whole fartile in Palesxxxi. 45, xxxvii. 25; Num. xxxii. 1.) The name G. is sometimes used for the whole country E of Jordan, but the region strictly called G. lay S. of Bashan. The district now called Belka, one of the most fertile in Palestine, was part of G. Mount Glieud, strictly so called, was, without doubt, the mountain Jebel. Jelad. or Jelbd, the foot of which is about 6 m. S. of Jebbok. The mountain extends E. and W. for abt. 10 m. On it is the ruined town of Jelad, probably the site of the ancient city Gliead, called also, in Scripture, Ramoth-Gilead. Gill'ead, in Connecticul, a post-office of Tolland co. Gill'ead, in Connecticul, a post-office of Tolland co. Gill'ead, in Indiana, a post-village, formerly cap. of Calhoun co., abt. 30 m. S. W. of Springfield. Gill'ead, in Indiana, a post-town of Oxford co., abt. 82 m. N. of Indianapolis. Gill'ead, in Michigas, a post-township of Branch co. Gill'ead, in Michigas, a post-township of Branch co. Gill'ead, in Michigas, a post-village of Thayer co. Gill'ead, in Michigas, a post-village of Thayer co. Gill'ead, in Okio, a township of Morrow co.

—A post-village of Wood co., now called Grand Rapins, on the Mamme river, about 140 m. N.N.W. of Columbus. Pop. (1897) 572.

on the Maumee river, about 140 m. N.N.W. of Columbus. Pop. (1897) 572.

Giles, (jiles), in Tennessee, a. S. co., bordering on Alabama; area, about 656 sq. m. Ricers. Elk river and Richland creek. Surface, diversified; soil, fertile. Cap. Pulaski. Pop. (1880) 34,357.

Giles., in Virginia, a. S.W. co., bordering on W. Virginia; area, about 446 sq. m. Ricers. Kanawha or New river, and Wolf, Walker's, and Shiking creeks. Surface, mountainous; soil, in some parts fertile. Prod. Corn. wheat, and grass. Cap. Pearisburg. Pop. (1890) 9,080.

Giles Court-House, in Virginia. See Prarisburg.

Gil'ford, or Guilford, in Michigen, a township of Tuscola co.

Gil'ford, or Guilford, in Minnesola, a township of Wabasha co.

Wadnena co.

GHI/ford, in New Hompshire, a township (containing
GILFORD VILLAGE, a post-village, cap. of Belkuap co.)
about 30 m. N. by E. of Concord. Its manufactures

about 30 m. N. by E. of Concord. Its manufactures are important.

Gil'gal. [Heb., s wheel.] A city near the Jordan, where they were circumcised and held the first Passover after leaving the desert (Josha iv. 19.). Here rested the tabernacle, until removed to Shiloh; here Samuel held court as judge of Lirael, and here San was crowned. It is frequently mentioned in the Bible; a school of the prophets was established here (2 Kings iv. 38), yet it afterwards became a sent of heathern worshin. (Assac iv. prophets was established here (2 Kings IV. 38), yet it afterwards became a seat of heathen worship, (Amos IV. 4.) Josephus places it within 2 miles of Jericho, but no traces of it are at this day extant. Gil'ia, n. (Bot.) A genus of plants, order Polemoniaces. The Tri-colored Gilia, G. tricolor, is an elegant little garden-plant, one foot high, cultivated for the beauty of its

den-plant, one foot high, cultivated for the beauty of its
flowers, which are numerous; limb pale lilac-blue colored, with purple throat and yellow tube.

Gilla, n. [A. S. ciolon, the throat, crole, the jaws; Ger.
k-hle; Lat. gula, the throat, from glutire, to swallow.]
(Physiol.) One of the BRANGHES, q.v.
(Bot.) The lamelle or plates that occupy the lower
surface of the mushroom, and consist of a series of parallel plates, bearing naked sporules over their entire surface. Called also hymnism.

The flash that hangs below the beak of a fowl or bird.—
The flesh on the lower part of the cheeks, or under the
chin.—A pair of wheels and a frame on which timber is
carried.

in water. To gild articles of steel, agitate ether or naphtha with a solution of terchloride of gold, and decant the light liquid floating on the top. It is applied by Gill, (jil,) s. [A.8 tengel; L Lat. gillo, allied to Gr.

A malt liquor impregnated with Ground-ivy.

—(Contr. from Gillian, the ancient method of writing Juliana) A vulgar appellation for a woman; a wanton; a ana.] A vuigar mppon....
jill-flirt.
"Each Jack with his GUL"—Ben Jos

Gill, a small lake of Ireland, co. Sligo, Connaught, abt.

2 m. S.E. of Sligo.

Gill, in *Indiana*, a township of Sullivan co., on the Illinois line.

Gill, in Massachusetts, a post-township of Franklin

co. Gil'Isma, in *Indiana*, a flourishing township of Jaspe

\*ill'lamm, in Indicaca, a flourishing township of Jasper county.

\*ille'mia, n. (Bot.) A genus of plants, order Rosacre.

G. trifoliata, the Indian physic, and G. stipulacea, the Bowman's root or American ipecacuanha, are pretty herbs, with lobed, discolored leaves and white flowers. They are natives of the U. States, and are used medicinally. In small doses they are tonic; in large doses, ametic.

emetic. Gillesia'cese, n. pl. (Bot.) An order of plants, alliance Liliales. Diac. A calyx-like involucre, the inner bracts of which are colored and petal-like. — They consist of small herbaceous bulbous plants, with grass-like leaves and spathaceous flowers. There are but two genera, — Gilliesia and Miersia, containing five species, all natives of Chill. The description of the properties of the plants.

Gilliesia and Miersia, containing five species, all natives of Chill. Their properties and uses are unknown. Gillies' pie, in Illisois, a post-village of Macoupin co, about 20 miles N.E. of Alton. Pop. (1890) 948. Gilleappie, in Texa, a W. central co; area, about 960 sq. m. Risers. Pedernales river, Sandy creek, and numerous smaller streams. Surface, diversified; soil, fertile. Cap. Fredericksburg. Pop. (1890) 7,028. Gillies' pievville, in Ohio, a post-office of Ross co. Gillies, St., an old town of France, dept. Gard, 12 miles S.S.E. of Beaucaire. Its territory produces a strong red wine, which is exported. Pop. (1895) 6,243. Gill'-fiapp, a. (Johib.) A membrane atttached to the posterior edge of the gill-lid, immediately closing the gill-opening.

gill-opening.
Gill'-flirt, s. A pert or wanton girl.—See Gill and

JILLFLIET.
Gillhall, in Pennsylvania, a P. O. of Allegheny co.
Gillie, (gilly), n. [A. S. guolda, a companion: Gael.
giolla, a boy.] A page; an attendant; a body-servant;
as, a Highland gillie.
Gillimer, the last king of the Vandals in Africa. Descended from Genseric, he usurped the throne, 530 driving out the feeble Hilderic who had allied himself with
the Romans. Justinian took advantage of this pretext
to send against him an army under Belisarius, who conquered G. at the battle of Fricameron (534), took him
prisoner, and selsed the city of Carthage. Justinian
made the Vandalic kingdom a prov. of his empire, but
granted G. a considerable domain in Galatia.
Gillims'haum, a town of England, co. Kent, 2 miles

granted G. a considerable domain in Galatia.

Gilling/haum, a town of England, co. Kent, 2 mines
from Chatham. Pop. (1895) 19,634.

Gill'lingite, a. (Mim.) A hydrous silicate of iron from
Gillinge-Grube, Sweden. Color, black; sp. gr. 3-045.

Gill'lisonwille, in South Carolina, a post-village of

Gill'Isomville, in South Carolina, a post-village of Hampton co.
Gillis, (St.,) (chil'lee.) a town of Belgium, E. Flanders, 20 m. from Chent; pop. 4,000.
Gill'-Isld, n. The covering for the gills, or breathing apparatus in fish.
Gilly-flowers, (jil'le.) n. [Fr. girofle; Lat. caryophyllum; Gr. karyophyllum, the clove-tree.] (Bot.) A popular English name for some of the cruciferous plants, most prized for the beanty and fragrance of their flowers, as Wall-flower, Stock, &c. The Clove-pink also, the wild original of the carnation, is called Clove-gillyflower. The name G. has been regarded as a corruption of July-flower; but in Chancer it appears in the form gilofre; and the French girofle indicates the true derivation from girofle, a clove, the smell of the Clove-G. being somewhat like that of cloves.
Gill'mam, in Illinois, a city of Iroquois co., 31 miles 8.

somewhat like that of cloves.

Gil'man, in Illiands, a city of Iroquois co., 81 miles 8.

by W. of Chicago. Pop. (1890) 1,112.

Gil'man, in New York, a post-village of Sullivan co.,
on P. J., M. & N. Y. R. R., 5 miles from Monticello.

Gil'manton, in New Hampshire, a post-town of Belknap co., about 20 miles N.N.E. of Concord. Pop. (1890)
1,211.

Gil'manton, in Wisconsin, a post-village and township of Buffalo co., on the Buffalo river, about 12 miles N.E.

of Burnice, on the Works, in New Hampshire, a post-village of Gilmanton township, about 20 miles N. N.E. of Concord.

N.E. of Concord.

N.E. of Concord.

Gil'mer, in Georgia, a. N. co.; area, about 452 sq. miles.

Rivers. Commanuga, Coosawatchee, and Ellijay rivers.

Surface, diversified; soil, fertile. Min. Gold, iron and
marble. Cap. Ellijay. Pop. (1890) 9,074.

Gilmer, in Illinois, a flourishing township of Adams

co.

A post-village of Lake co., abt. 35 m. N.W. of Chicago.

Gilmer, in Texas, a post-town, cap. of Upshur co., about 820 m. E.N.E. of Austin. Pop. (1890) 691.

Gilmer, in West Virginia, a central co.; area, about 330 sq. m. Ricers. Little Kanawha river, and Lick and Leading creeks. Surface, uneven; soil, in some parts fertile. Cap. Glenville. Pop. (1890) 9,746.

Gilmer's Store, in North Carolina, a post-office of Guiltord co.

Guillord co.

Gillmore, in Ohio, a post-village of Tuscarawas co., about 40 miles N.E. of Zaneaville.

Gilmore, in Pennsylvania, a township of Greene co.

gaulos, a milk-pail.] A measure of capacity containing Gil'more City, in lows, a post-vill of Pocahontas co. in the 4th part of a pint.

(Bot.) The Gill-over-the-ground, or Ground-ivy. See bidge co.

GIN

Gilmeore's Mills, in Virginia, a post-omce of mocabilide to.
Gille'le, or Almahera, the largest of the Molucoss or Spice Islands, is crossed by the equator in Lon. 128° E. It is divided towards the east from New Guinea by a wide channel of its own name. It contains about 6,000 eq. m, comprising several petty states, which are connected chiefly with the Dutch settlements in the Rast Indice. The imports are manufactured goods, opium, china-ware, and iron; and the exports are eago, cucoa-nuts, spices, fruits, pearls, gold-dust, horses, sheep, and horned cattle. The interior is mountainous, and im many parts densely wooded. Pop. Unascertained. Gilolo, the principal town, lies in Lat. 0° 45' N., Lon. 128° 22° E.

Gil'pin, in Colorado, a N. central co.; area, about 150 Gil'pin, in Colorado, a N. central co.; area, about 180 sq. miles. Surface, mountainous; soil, in some parts fertile. Min. Gold. Cup. Central City. Pop. (1880) 5,867. Gillpin, in Pennsylcania, a post-office of Indiana co. Gil'roy, in Culifornia, a post-office of Santa Clara co. Gil'son, in Illusois, a post-office of Knox co. Gil'son, in New Hampshire, a post-town of Cheshire co., about 35 miles W.S.W. of Concord. Pop. (1890) 643. Gilt, imp. and pp. of Gill, q. v. Gilt, a. Overlaid with a thin coating of gold; illuminated; adorned.

Gilt, imp. and pp. of Gill, q. v.
Gilt, a. Overlaid with a thin coating of gold; illuminated; adorned.

—m. Gold laid on the surface of any thing.
Gilt'-head, m. (Zoil). A name commonly applied to some fishes of different genera, but more especially to the genus Chrysophrys, family Sparide, the species of which are European. The common Gilt-head, C. currata, (Fig. 1157.) abounds in the Mediterranean, and is very much esteemed for the table. It is about 12 inches in length, and is found near the shore, where its presence is sometimes betrayed to fishermen by the noise which its teeth make in crushing shells. The back is silvery-gray, shaded with blue; the belly like polished steel; the sides have golden bands; and there is

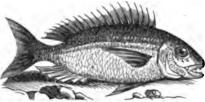


Fig. 1157. — COMMON GILT-READ. (Chrysophrys Aurata.)

a halfmoon-shaped golden spot between the eyes, from which it derives the name G., the Latin name Aurata (gilded), and the Greek name Chrysophrys (golden eyebrow). From the Latin Aurata comes the French name Porade. This fish was very generally kept in the vivaria of the ancient Romans, being much valued and

Toronce. In the state of the ancient Romans, being much valued and casily fattened.

Girm'bal, n. [Lat. genulius, twin.] (Naut.) A piece of mechanism consisting of two brass hoops or rings which move within one another, each perpendicularly to its plane, about two axes, placed at right angies to each other. A body suspended in this manner, having a free motion in two directions at right angies, will assume the vertical position; hence the apparatus is employed for suspending portable or mountain barometers, see-compasses, &c.

Gismb let, m. Same as GMERT, q. v.

Gismb let, m. Same as GMERT, q. v.

Gismb rack, (jim'krak), n. [From gim, contr. of gimp, nest, spruce, and O. Eng. crack, a lad, a boasting youth.]

A trivial piece of mechanism; a toy; a pretty thing.

"What's the meaning of all these trangrams and giscracks?"

"What's the meaning of all these trangrams and generack?"

Arbutanot.

Gim'let, Gimb'let, n. [O. Fr. guimbelet; Fr. gibelet, probably of the same origin with Eng. wimble, q. v. A small instrument with a pointed screw at the end for being a belief in the contract of the same origin.

boring holes in wood.

v. a. To perforate with a gimlet.

-c. a. To perforate with a gimlet.

(Naut.) To turn an anchor by the stock, as in coming to, or weighing anchor, that the flukes may not injure the bows, or that the anchor may seize by the opposite fluke, so that the ground-tackle may lie shipshape or untwisted.

sampe or united.

Gim'let-eye, n. A squint or swivel-eye.

Gim'mal, n. Joined work, the parts of which mov
or play one within the other. "A gimmal-bit."—Shaks
—Any quaint device, or piece of machinery.

" By some odd gimmals or device." - S

"By some odd gimmals or device."— Shaks.

Gimmp., n. [Fr. guippre, from guipper, to cover or whip
ubout with silk; O. Fr. guimpe, the pennon of a lance;
Cf. Ger. wimpel.] A kind of silk-twist or edging, interlaced with brass or other wire.

—a. [W. guymp, nest.] Trim; nice; spruce.

—"She was both gimp and small."— Motherwell.

Gim. (jin.) n. [Dut. generer; Fr. genièrre, the juniperberry; Lat. juniperus, the juniper.] An ardent spirit,
originally flavored with juniper berries, from which it
derives its name. Geneva is frequently confounded with
sin: the former is, however, merely procured by the ferderives its name. Geneva is frequently confounded with gin; the former is, however, merely procured by the fermentation of the berries of the Juniper communis. Hollands gin is a variety of corn spirit, containing a proportion of juniper, while the English gin consists of plain corn spirit, fiavored with oil of turpentine and a small quantity of other substances. Every gin-distiller has a recipe of his own, which is usually kept a secret; hence the variety of flavors to be found in this spirit; as, the plain gin flavor, the Hollands flavor, the

whishy flavor, the smoly flavor, &c. A large variety or substances is employed in the flavoring of gin; among others may be mentioned sugar, bitter almonds turpertine, cresote, lennon, cardamoms, caraways, cassia, galic, Canada balsam, horse-radish, grains of paradise, cayenne pepper, and several other herbs, seeds, fruits, &c. Perhaps nothing used as a diet by man is liable to greater and more injurious adulteration than gin; and the disculty of getting it pure from any poisonous drug should induce every one to abstain from it. Cordialized G. forms the favorite alcoholic drink of the lower classes in London, and is popularly known as Old Tom.

Glim, (jin,) n. (Contracted from empine.) (Mach.) A machine used for raising weights, driving piles, &c., consisting of 3 poles, each from 12 to 15 feet long, and 5 inches in diame-

and 5 inches in diam and a inches in diame-ter at the lower end, tapering to 3½ inches at the upper. The poles are united at the top, either by an iron ring which passes through them, or by a rope which is twisted several times round each; and to this "joint" a pulley is fixed. Two of the poles are kept at an invariable distance by means of an iron rod, in order that they may support the windlass which is at-



Fig. 1158. - GIN.

windlass which is at-tached to them, its pivots running in iron cheeks fixed to the poles. When the machine is to be used, it is set up over the weight to be raised; two blocks, arranged according to the second system of pulleys (q. r.), are fixed, one to the top of the poles, the other to the weight; and the rope, after passing round both blocks and over the pulley before mentioned, is attached to the windlass, by the revolution of which the weight can then be raised. then be raised.

An engine of torture moved by screws; a rack.—A pump worked by rotary sails.

T. a. To clear of seeds by means of a machine, as cetton.

-r. d. 10 clear of seeds by means of a macnine, as conton-Gin'gal, n. Same as Jivoll, q. r. Gim'gee, a strongly fortified town of Hindostan, in the Carnatic, 80 m. from Madras, on the Coromandel coast. It stands upon a stupendous rock, and was formerly re-garded as impregnable. It was taken by the French in 1750, and abandoned to the British after the capture of Parallel harm 1751.

Pondicherry, 1761.

Ginger, (jin'dzher,) n. [Fr. gingembre.] (Bot.) See
Zinginer.

Ginger, (jin'dzher,) n. [Fr. gingembre.] (Bot.) See Zixoners.

Gin'ger-beer, n. (Drinks.) This popular and agreeable beverage is prepared as follows:—Take of white sugar 20 pounds, lemon or line juice 18 fluid ounce, honey 1 pound, bruised ginger 22 ounces, water 18 galons. Boil the ginger for half an hour in three galons of the water, then add the sugar, the juice, and the honey, with the remainder of the water, and strain the whole through a cloth; when cold, stir in the white of one egg and half an ounce of essence of lemon; after standing four days, bottle. The bottles are to be laid on their sides in a dellar: and the beer is ready for use in about 3 weeks. If a little yeast be used, the beer is ready in 2 or 3 days, but in that case does not keep well. Ginger-ber powder. Take of white sugar two drachms, bicarbonate of soda 26 grains, powdered ginger 5 grains, essence of lemon 1 drop; mix and put up in white paper. In a blue paper put up half a drachm (30 grains) of finely powdered tartaric acid. When used, mix the powders and stir them into half a pint of water.

Gin'ger-breach, n. A sweet-cake having ground ginger in it.

Gin'gerbread Ground, a dangerous reef 8, of the Great Bahama island; Lat. 25° 56' N., Lon. 78° 25' W. Gin'gerbread-tree, n. (Bot.) A name given to the u-palm, from the resemblance of its brown, mealy

rind to gingerbread. — See Hyphers.
Gin'gerbread-work, n. Work cut or formed into fanciful shapes for ornament, similar to those usually traced on gingerbread:—hence, any fanciful, tawdry, or fantastic work.

Gin'ger Hill, in Pennsylvania, a village of Washing-

ton co.

Gin'ger Island. See Vingin Islands.
Gin'gerly, adv. [A. B. grongra, comp. of geong, young.]
Cautiously; timidly; delicately; tenderly; gently; s., a gingerly spoken man.

"What is 't that you Took up so gingerly?"—Shaks.

Gin'ger-pop, n. Same as Gingerity?"—Shaks.

Gin'ger-wime, n. (Drinks.) A popular and chesp liquor, made by the fermentation of sugar and water, and flavored with various substances, but chiefly with ginger. It is partly an article of domestic manufacture, and is partly made on a larger scale for sale. It may be made by dissolving about 6 pounds of sugar in 14 gallons of water, adding 4 ounces of bruised gingr and the whites of 2 eggs well beaten, mixing thoroughly, boiling for a quarter of an hour, akimming carefully, and when the liquor has cooled adding the juice of 4 lemons, and also their rinds for flavoring, with a teccupful of ale-yeast to promote fermentation, letting it ferment in an open vessel for 24 hours, and then putting it into a cask of suitable size, closely bunged, in which it remains for a fortnight before it is bottled. It is, however, very common to increase the strength of 6. F.

by the kind of spirits employed. A little spirits added nakes G.W. keep well, and it even improves in quality for many months. Its quality depends much on that of the sugar and of the giuger employed, and also on the care with which the preparation is conducted. Hugg'hamm, a. [Fr. gasingus.] (Mususf.) A cotton fabric, generally bearing a colored check pattern, which is not produced by dyeing or stamping the manufactured material, but by interweaving colored threads. The various kinds of G. now manufactured are known by different names in commerce: and umbrella G. is woven various kinds of G. now manuscured are known by different names in commerce; and umbrella G. is woven with threads all of the same color.

Ging hams burg, in Ohio, a post-office of Miami co.

Ginging, n. (Mining.) The lining of a shaft with stones or brick for its support.

Gingival, a. [Lat. gengiea, gingiea, a gum.] Belonging to the nume.

stones or brick for its support.

Sin'glayal, a. [Lat. gengiva, gingiva, a gum.] Belonging to the gums.

Sin'glayal, a., [Lat. gengiva, gingiva, a gum.] Belonging to the gums.

Sin'glaymoid, Ginglymoid'al, a. [Fr. ginglymoid: Gr. ginglymocides, from gingglymos, and eidos, form.] Belonging to, or resembling a ginglymus.

Sin'glymus, n.: pl. Gin.Lym. [Gr. ginglymos, a hinge.] (Amat.) A name applied to those articulations which open and shut like the hinge of a door, such as the elbow-joint, the wrist, and ankle.

Sin'hoense, n. A horse that puts the gin in motion, by which cotton is rid of its seed.

Cin'hoense, n. The building where a gin is situated.

—A tavern where gin is vended.

Sim'kell, Godar de Reede de, Sarl of Africans, an able and brave Dutch officer, who accompanied the Prince of Orange in his expedition to England, was born at Utrect in 1640. Some time after William's accession, he was sent to suppress the revolt of some Scotch regiments at Ipswich. He subsequently took a leading part in William III.'s campaigns in Ireland; was at the battle of the Boyne; and after taking Athlone, gaining the battle of Aughrim, and forcing Limerick to capitulate, was rewarded with the title of Earl of Athlone. He afterwards served under William, and under Marlborough, in the great campaigus on the continent. D. 1703.

Sin'met, n. Same as Jennet, q. v.

Gin'met, s. Same as JENNET, q. v.
Gin'my-carriage, s. A small, strong carriage for
conveying materials on a railroad.
Gin'-ring, s. The track around which the horse moves

Gin'my-carriage, n. A small, strong carriage for conveying materials on a railroad.

Gin'my-carriage, n. The track around which the horse moves in putting a gin in motion.

Gin'seung, n. [Probably from Chin. gen seng, chief of plants.] (Bot.) See Parax.

Glober'si, Vincenso, a distinguished Italian writer and statesman, E. at Turin, 1801. After a brilliant educational career, he was ordained priest in 1825, and soon afterwards was appointed court-chaplain at Turin. Banished in 1833 without any formal process, on account of his life were spent chiefly in exile. After remaining a few years in France, he began to teach philosophy in a public school at Brussels. His first writings were philosophical, viz., La Teorica del Svesanaturale (1837); the Introduzione allo Studio della Filosofia (1840), following out the subject of the former treatise, and combating the principles of Kant and Victor Cousin in favor of the doctrines of St. Thomas Aquinas and St. Buonaventura; three volumes more in 1842, entitled Errori Filosofic di Antonio Rosaini; and next the treatises Del Bello and Del Buono, on the principles, respectively, of taste and morals. In 1843 appeared the most celebrated of his works, Primato Morale Civile degli Italiani, in which the moral and civil preduinence of Italy over all the nations of the earth is set forth, and the success of which was exemplified in the Italian frenzy for the early reforms of Pins IX., and the enthusisem that led to the revolution of 1848. In that year G. was recalled to his native country amid popular acclamation. On the proclamation of the Sardinian constitution, he was elected deputy for Turin, took an active part in all the great political questions then agitating Europe, and finally became prime-minister of Sardinia. But his hopes for Italy were soon blighted. In 1849 he returned into voluntary exile, and spent his last years in Paris in writing his Rismovamento Civile di Ralia, the final manifesto of the great statesman and philosopher. D. at Paris, 1852. His country gave him

Giergione. Giorgio Barbarelli, (janjo'nai,) one of

the earliest painters of the Venetian school, R. 1478. He executed, at Venice, a large number of frescoes, which time has destroyed. Several of his oil-paintings have been preserved, and are at once recognisable by the firmness of touch, vividness of coloring, and the striking tone of relief which they display. The Museum at Paris contains four of his works, vis: Subme receiving the head of John the Baptist; Jesus sitting on his Mother's Knees; The Kural Concert; and Guston de Fbix. His chef-d'cuvre is a picture of Christ carrying His Cross, preserved at Venice. D. of the plague, 1511. Glot'te, or Amerocorro Cordona, (jot'to,) a celebrated Italian painter, B. at Vespiguano, 1276; he was the pupil of Cimabuo, and appears to have owed the development of his extraordinary faculties almost wholly to that painter, who in one of his walks near Florence saw G., then a shepherd-boy, sketching one of his flock on the ground, and perceived so much native talent in the attempt, that he parsuaded the boy's parents to let him take him with him to Florence, and make a painter of him. Florence dates its preponderance in the history of Tuscan painting from the time of G; his works mark the zera of the first great epoch of the art in modern times: the rigid traditional forms of the Byzantine school were finally laid aside for nature: the beautiful now supplanting the hideous as the fundamental element of the canous of art.—G. was painter, sculptor, architect, and mosaic worker; he enriched many cities in Italy with his works, (chiefly in freeco,) especially Florence, Rome, Naples, Padua, and Assisi; and by his introduction of individuality of treatment through the careful study of nature, established legitimate portait-painting. He was the friend of Dante, and has transmitted the features of the poet, (see Fig. 769,) who in turn has dedicated to the painter some varies in the Divina Chamsedia. D. 1336.

Giovenause, (po'cai-nat'so.) [Lat. Natiolum.] A scaport town of & Italy, prov. Bari, sbt. 10 m. from Bari; pop. 10,000.

Gip.,

long tapering mean analist and elevated head, its large and brilliant eyes, its mild aspect, and the whole contour of the animal, differing from all others, cannot fail to excite admiration; for, notwithstanding the unusual proportions of the limbs, its general form is not merely elegant, but highly picturesque. The horns of the G. differ both in texture and shape from those of all other borned onadru-

differ both in to:
horned quadrupeds; forming,
as it were, a
part of the
skull, and consisting of two
porous bony
substances,
about 3 inches about 3 inches long, with which the top of the head is armed, and which are placed just above the ears, and crowned with a thick tuft of stiff upright hairs; a considerable protuberance also berance also rises on the middle of the forehead between the eyes, which appears to be an enlargement of the bony substance, similar to the two horns just mentioned. The neck is furnished with a very short stiff mane. The



Fig. 1159. — GIRAPPES

stiff mane. The tail is of moderate length, gradually tapering towards the end, and terminating in a turt of long hair. The fore part of the body is very thick and muscular; the hind part thin and meagre. The G. in its wild state, when full-grown, measures 17 feet from the top of the head to the fore-feet; the female, however, is not so high; and it must be understood that this measurement is taken at the maximum height, none of those brought to or head in Europe having reached more than 14 ft. taken at the maximum neight, none of those brought to, or bred in, Europe having reached more than 14 ft. At first view the fore-legs seem twice the length of the hind: but this difference, on accurate examination, appears to result chiefly from the extraordinary height of the shoulders. The color of the G, is a light fawn,

marked with numerous large spots of a darker hae, less regularly shaped on the addes than on the neck and aboulders. The vertebre of the neck are slightly curved; but although nothing can exceed the gracefulness of form which this part sometimes presents, the fewness of the joints prevents the neck from being generally bent or arched with swan-like elegance. The peculiarities of conformation which this animal displays are all adapted to the mode of life which is natural to it; for it is destined to browse upon the foliage and young shoots of trees, at a height tar greater than that which any other animal can reach, whilst standing on the ground. For this purpose it is furnished with an elongated, prehensile tongue, with which it lays hold of the tender branches, and draws them into its mouth, being assisted by its projecting upper lip, which is at once flexible and very nuuscular. In order to bring its mouth to the ground, which it seldom does except to drink, or to pick up some unusual delicacy, the G. is obliged to stretch its fore-legs widely apart, and to bend its neck into a semicircular form. The head of the G. resembles that of the camel in the absence of a naked muzzle, and in the shape and organization of the nostrile, which are oblique and narrow apertures, defended by the hair which grows from their margins, and surrounded by cutaneous muscular fibres by which the animal can close them at will. This is a beautiful provision for the defence of the air-passages, and the irritable membrane lining the olfactory cavities, against the fine particles of sand which the storms of the deert raise in almost which grows from their margins, and surrounded by cutaneous muscular fibres by which the animal can close them at will. This is a beautiful provision for the defence of the air-passages, and the irritable membrane lining the olfactory cavities, against the fine particles of sand which the storms of the desert raise in almost suffocating clouds. The large, dark, and lustrous eyes of the G., which beam with a peculiarly mild but fearless expression, are so placed as to take in a wider range of the horizon than is subject to the vision of any other quadruped. (See Fig. 982, and text.) To an open attack he sometimes makes a successful defence by striking out his powerful and well-armed feet; and the king of beasts is said to be frequently repelled and disabled by the wounds which the G. has thus inflicted with his hoofs. The horns of the G., small as they are, and muffied with skin and hair, are by no means the insignificant weapons they have been supposed to be. The G. does not but by depressing and suddenly elevating the head, like the deer, ox, or sheep; but strikes the callous obtuse extremity of the horns against the object of his attack with a sidelong sweep of the neck. The feet have cloven hoofs, but are destitute of the small lateral toes or spurious hoofs, which occur in the other cloven-footed ruminants. The head is long; the upper lip entire, projecting far beyond the noatrils, and endowed with considerable muscular power. The tongue is remarkably capable of elongation, and is an organ of touch and of prehension, like the trunk of an elephant; it can be thrust far out of the mouth, and employed to grap and take up even very small objects; it is said that its tip can be so tapered as to enter the ring of a very small key. The usefulness of such an organ of touch and of prehension, like the trunk of an elephant; it can be thrust far out of the mouth, and employed to grap and take up even very small objects; it is said that its tip can be so tapered as to enter the ring of a very small eye. The use of the

merous works, the principal of which is his Historia de Dits Gentium, in which he attempts to present a system of mythology. D. in 1802.

Giral'dius Cambremsis, or Gerald de Barry, an old English writer, E. at Manorbeer, near Pembroke, S. Wales, 1146. He was appointed to several rich benefices under Henry II. and Richard I., and administered the bishopric of St. David's which he vainly endeavored to obtain for himself. When Richard Cour-de-Lion was setting out on his crusade, G. was named governor of the kingdom in his absence. His principal works are: Topographic Hiberaie, Rimerarium Cambris, De Rubus a se gestis, which is a journal of his life, and displays no inconsiderable amount of vanity; Ecclesic Speculum, in which he censures the manners of the monks. D. 1220.

Gir'andole, (shir'an-dól,) n. [Fr., from It. girandola, from girare, to turn; Lat. gyrare, to turn in a circle, from girare, to turn; Lat. gyrare, to turn in a circle, from girare, to turn; Lat. gyrare, to turn in American philanthropist, B. near Bordeaux, France, in 1750. He passed his youth in a sea-faring capacity, and rose to be master and co-owner of an American coaster. In 1769, retiring from sea-life, he commenced business as small

trader in Philadelphia, and ultimately realized a large fortune; this was further extended by his embarking in the business of private bunking in 1812. In the same year he advanced a loan of \$5,000,000 to govt. G. was a liberal benefactor to the city of his adoption, subscribing liberally to its charities, and adorning it with many elegant buildings. D. 1831, bequeathing the bulk of his property, amounting to about \$9,000,000, to charitable institutions and public works. The principal bequest, however, was a sum of \$2,000,000, besides the proceeds of a certain proportion of his estate (out of which some legacies were to be deducted), together with a building-lot in Philadelphia, for the erection and



Fig. 1160. — GIRARD COLLEGE, (PHILADELPHIA)

Fig. 1160. — GIRARD COLLEGE, (PHILADELPHIA).

establishment of a college for orphans, (see PHILADEL
establishment of a college for orphans, (see PHILADEL
establishment of a college for orphans, (see PHILADEL
philadelphia).

It is edifice in the Cornthian style (Fig. 1160),

is the finest specimen of Grecian architecture in the U.

States, if not of modern times. It was begun in 1833,

and opened in 1848; having cost in its construction over

\$1,930,000. A marble statue in the lower vestibule

covers the remains of the founder. Disciple of the

French Kneyclopedic school, G. was very liberal in reli
gious matters. By a clause in the founder's will, no eccle
siastic, missionary, or minister of any sect whatever, is

allowed to have any connection with Girard College, or

even to be admitted as a visitor therein; but the officers

of the institution are instructed to train up the pupils in

the truest principles of morality, leaving them to choose

their own religious opinions upon arriving at years of

discretion.

discretion.

Girard, (jc-rard',) in Alabama, a post-village of Russell.co., on the Chattahoochee River, opposite Columbus, Georgia.

Girard', in Georgia, a post-office of Burke co.

Girard', in Illinois, a post-township of Macoupin

county.

Girard', in Michigan, a post-village and township of

Girard', in Ohio, a post-village of Trumbuli co., about 170 m. N.E. of Columbus.
Girard', in Pransylvania, a township of Clearfield county.

—A post-borough and township of Erie county, on Lake

GIRBIES., in Francyteania, a township of Clearfield county.

—A post-borough and township of Erie county, on Lake Erie.

Girbies., (sher-ar'din.) Emile de, a distinguished French journalist and politician, b. in Switzerland, 1892. He was the natural son of Count Alex. de Girbies. 1893. Gwas educated at Paris, and, in 1823, appointed secretary-general of the royal museums. After the revolution of 1830, he started the Journal des Commaissances utiles, for which he obtained 120,000 subscribers; in 1832, the Muste des Fumilles; and, in 1834, the Almanach de France, Besides these, he published an Allas de France, and an Allas Universal. The whole of these works were announced as emanating from the "Société Nationale pour l'Emancipation Intellectuelle," and exercised a considerable influence on the progress of public instruction in France. In 1836, G. founded La Presse, as an independent political organ, and took for his motto "An jour le jour '(from day to day). True to this principle, and the pecuniary interests of his speculation, he supported and renounced, in turn, every minister and every opposition leader. Consequently, he became involved in serious controversies, one of the results of which was his duel with Armand Carrel, editor of the National, in 1836, in which the latter fell. From that time until the revolution of 1848, G. took an active part in politics both as a journalist and deputy; and from being a supporter of the moderate liberal party under the leadership of Guisot, became a pronounced republican. G. was the first to propose Louis Napoleon as a candidate for the Presidency, but four weeks had not elapsed after the installation of the latter, erre he was attacked by G. with violent acrimony. G. next became an ally of the Socialists, and in 1856 ceased his connection with the journal called La Liberté, which soon reached a circulation of 100,000 copies. He sold it in 1870 to his nephew, L Détroyat, for \$100,000, and became in 1874 chief editor of La France, which position he held almost to the day

Lauray. D. 1855. Frar'dim, St. MARC, an eminent French literateur and journalist, B. at Paris, 1801. After brilliantly gradu-

ating at the colleges Napoléon and Henry IV., he, in 1827, was inducted into a professorship in the Collége Louis le Grand. On his return to Paris, after a tour in Germany in 1815, G. was appointed Guizot's successor as professor of history in the Faculty of Letters, and was also made Master of Requests to the Council of State. also made Master of Requests to the Council of State. In 1834 he was appointed professor of poetry in the College of the Sorbonne, and also elected a deputy. In 1844, G. was admitted a member of the French Academy. Among his chief works are, Notices Politiques et Litteraires sur l'Allemagne (1834); Cours de Litteraiure Dramatique (4 vols. 1843); Exsuis de Litterature de Morale (2 vols. 1844); and Tableau de la Litterature au 16me. Siècle, suivi d'Etudes sur la Littérature du Moyen Age et de la Renaissance (1862). D. April, 1873. Girard' Mannor, in Iransylvania, a post-office of Schuylkill co.

Girard Manor, in Transylvania, a post-office of Schuylkill co.
Girardom, (the-rar'dong.) François, a French sculptor, B. at Troyes in 1628. He was greatly encouraged by Louis XIV., and, among other works, executed the equestina statute of that monarch, which was thrown down and destroyed by the revolutionists in 1792. He D. in 1715.

Gir'asol, Gir'asole, n. [Fr. girasol; It. girasole, from girare, to turn, and sole, the sun; Lat. sol.] (Bot.) The Turnsole, or heliotrope.

(Mm.) A milk-white or bluish opal, which presents bright hyacinth-red and yellow reflections, when turned towards the sun or any strong light.

Gird. (gerd.), v. a. (imp. and pp. GIRED, GIRT.) [A. 8. gyrdan, to surround, to encircle.] To bind by surrounding with any flexible substance, as with a twig, a cord, or a bandage of cloth; as, to gird on a sword, to gird on warlike harness.

—To surround; to encircle; to enclose; to encompass.

"His saay stops girded with snaky wiles."—Milton.

"His easy steps girded with snaky wiles."

To put on; to invest; to clothe; to habit.

"Girt with omnipotence."—Millon.
A. S. gyrd, a rod.] To jibe; to reproach severely; lash : to vituperate.

"Being moved, he will not spare to gird the go -e. n. To gibe; to jeer; to make a scornful jest; to utter severe sarcasms.
"This error at which our critics gird." — Drayton.

a. A twitch or pang.

"The checks and gards of conscience." — Goods A sneer; a sarcasm; a gibe. "I thank thee for that gird." — Shaks.

"I thank thee for that gird." — Shaks.

"I thank thee for that gird." — Shaks.

Gird'er., n. [From A. S. gyrdan, to bind.] (Arch. and
(Nr. Eng.) A name given to long beams of wood and
iron, that are thrown across openings of considerable
span, to support floors and the roadway of bridges. G.
are of two kinds, simple and framed; the former being
merely wooden beams, or beams of cast or wrought-iron;
while the latter are beams of the above materials made
of several pieces, put together in such a manner that
they may be capable of offering a greater resistance to
excessive pressure than a simple G. could exert. The
depth and width of all G. must be proportioned to the
greatest weight that is likely to be thrown on them,
that they may be able to offer the greatest possible resistance to its pressure, with the least possible quantity
of material. The strength of a G. is augmented by adding to its depth rather than its width, as its capability
of resistance increases directly as the width and as the
square of its depth. If, for example, a beam that is 3 square of its depth. If, for example, a beam that is 3 inches wide and 6 inches deep will bear a certain weight, a beam that is twice as wide will bear twice that weight; a beam that is twice as wide will bear twice that weight; while one that is twice as deep will bear four times as much, and one that is twice as wide and twice as deep, eight times as much. The longer it is the greater will be its flexibility; or in other words, if two beams of the same width and depth, but of which one is twice as long as the other, be supported at the ends having equal neights suspended from their centres, the longer beam will exhibit a greater amount of deflection than the shorter one, — the capability of resistance in G. of all kinds being inversely as the length. The manner in which the weight is thrown on a beam has considerable influence on its power of resistance. Thus a beam will which the weight is thrown on a beam has considerable influence on its power of resistance. Thus a beam will not bear half as much, if all the weight be collected at its centre, as it will if the weight be distributed equally along its length. Beams will also bear a greater weight when their extremities are secured or loaded with a weight of masonry, as in the case of G. stretching from wall to wall of a building, to support a floor. A dead uniform weight is less injurious to the power of resistance that a G. can exert, than a weight which is in motion; but it is found that the power of resistance of a beam loaded with a dead weight decrease considerably when it has sustained that weight for a long period of time. The amount of weight that should be thrown on G. under any circumstances should never exceed one-third the weight that would have to be applied in order to break it. G. should also be shaped in accordance with the conditions under which they are to be loaded. that the weight that would have to explice in order to break it. G. should also be shaped in accordance with the conditions under which they are to be loaded. Thus the upper surface of a G. supported at both ends, that has to sustain a great weight at one point only, should be in the form of a parabola; while that of a beam supporting a uniform weight at all points, should be elliptic, the under surface being perfectly straight in both cases. Wrought- and cast-iron G. are made with flanges, or projecting edges of metal at the top and bottom. In cast-iron G. the bottom flange must have a sectional area equal to six times the area of the top of the flange, as the power of cast-iron to resist compression is about six times as great as its power to resist a drawing strain; but in wrought-iron G., on the contrary, the sectional area of the bottom flange need be only one half of that of the top flange, as the power of

wrought-iron to resist compression is only half as mach as its power to resist tension. In other points, the strength of iron G. varies in proportion to their depth. Girdler, n. One who girds; a satirist; a sarcastic person. Girdle, n. [A. S. gyrdel, from gyrdax, to surround; Ger. gürtel.] A band or belt; something tied around the ioins. It was more or less in common use among several of the nations of antiquity. In Scripture, the girding up of the loins is frequently alluded to as being practised by the Jews before undertaking a journey. G. of sackcloth were also sometimes worn as tokens of bunfillation. Among the Greeks and Romans the G. G. of sackcloth were also sometimes worn as tokens of humiliation. Among the Greeks and Romans the G. was a military ornament; and hence to deprive a soldier of his G. was a mark of the deepest ignominy. The tunic of the Romans was also fastend by a G. or beit about the waist, and it was regarded as very effeminate to appear abroad with the tunic slackly or carelessly gried. Ilence girt came to denote diligence, activity, cleverness, and ungirt, idleness, effeminacy. The young women always wore a girdle, or zone, before marriage; and hence the phrase "Zonam solvere virgineam" was sometimes used to denote that ceremony. The G. worn by Venus was called "cestua." Among the Romans the G. served also as a purse; and in England it was formerly the practice for bankrupts, or insolvents, to give up their G. in open court.

—Enclosure; circumference. Enclosure: circumference.

"Within the girdle of these walls." - Shale

"Within the girdle of these walls."— nears.

—Same as Griddle, q. v.
(Jevelry.) The line encircling a precious stone, where
the setting clamps and holds it.

—v. a. To bind with a belt or sash; to gird. — To enclose;
to shut in; to environ; to surround. — To kill standing
forest-trees by making with an axe an incision through
both bark and alburnum, all the way round; — a usual
mode of preparing for the clearing of heavily timbered
land. (U.S.)

Girdle-belt, n. A belt for clasping or tying about
the waist.

mode of preparing for the clearing of neavity immerse land. (U. B.)

Gir'dle-belt, n. A belt for clasping or tying about the waist.

Gir'dlemess, a promontory on the E. coast of Scotland, abt. 2 m. S. of Aberdeen. Its light-house is in Lat. 57° 8° N., Lon. 2° 3′ W.

Gir'dler, n. One who girdles, or belts for the waist.

Gir'gashites. [Heb. girqushith, those who arrive from pilgrimage.] A tribe of the ancient Canaantes, c.

Girgeln, (jir.) n. Same as Gyrr, v.

Girgeln, (jir.) a large town of Upper Egypt, cap. of a prov. of the same name, and after Siout, the largest town of Upper Egypt. C. lies abt. ½ m. from the Nile, and 60 m. N.W. of Thebes. It has several mosques, a government cotton factory, and the oldest Latin convent in Egypt. Lat. 37° 22′ N., Lon. 31° 6′ 2″ E.

Girgenti, (jir.) of a district of the same name, 58 m. S.B. E. of Palermo, in the Val di Maxzara, abt. 2 m. from the coast. The town stands on a hill, and commands a beautiful prospect, but is dirty and ill-built. The city has a fine harbor, (inconveniently distant from the town, and built in 1752.) and is the principal port in Sicily for the shipment of sulphur. Lat. 37° 19′ 25″ N., Lon. 13° 27′ E. Fbp. 20,000. — The District, with an area of 1,200 sq. m., has a popo of 250,000, and is very fertile in corn, wine, olives, &c. Among the minerals may be mentioned sulphur, salt, naphtha, and bitumen.

Gir'kins, n. Same as Gherren, q. r.

Girl, a daughter; from kan, to love.] A female child; a young woman; sometimes familiarly applied to any unmarried woman.

(Venery.) A roebuck of two years old.

Girl'Brenod, n. The state or time of being a girl.

(Venery.) A roebuck of two years old.

Girl'hood, s. The state or time of being a girl.

Girl'ish, a. Like a young woman or child; befitting a

Girl'inoad, m. The state or time of being a girl.
Girl'ish, a. Like a young woman or child; befitting a girl.
—Pertaining to the youth of a female.
Girl'ishiy, adr. In the manner of a girl.
Girl'ishiy, adr. In the manner of a girl.
Girl'ishmess, m. Quality of being girlish.
Giro'det, Anns Louis, a distinguished French painter, B. at Montargis, 1767; was a pupil of David.
Among his principal works are Endymion sleeping;
A Scene from the Deluge; the Burial of Atala, &c.
He also painted Napolema receiving the Keys of Viena;
full-length portraits of the Vendean leaders, Bonchamp and Cathelineau; and St. Louis in Egypt, which was his last great work. He was a member of the Academy of Painting, and of the Institute. D. 1824.
Giromele, (the-rond',) in France, the name given to the river Garonne after it has received the Dordogna, at the Bee d'Ambes. It is 45 m. long, and from 2 to 6 m. wide.
—A maritime dept. in the S.W. of France, bounded on the W. by the Bay of Biscay, on the N. by the dept. of Charente-Inferieure, on the E. by those of Dordogne and Lot-et-Garonne, and on the S. by that of Landes.

Area, 4,132 aq. m. It is watered mainly by the Garonne and the Dordogne, and by the Gironde. The surface of the land is in general flat; but in the E. there are some hills. The climate is temperate, and, except in the Landee or sandy tracts, which, however, occupy nearly all the W. half of the department, is healthy. In the E. and N.E. the soil is chiefly calcareous. Wine, including the finest clarets [see BORDAUX (WINE 07), lis the great product of the dept. Grain, vegetables, fruit, and hemp are also produced largely. On the W. coast, on the downs or sand-hills, there are extensive plantions of pine, from which turpentine, pitch, and charcoal are obtained. Manuf. Calloo, mealin, chemical products, pottery, paper, vinegar, brandy, &c. Chief towns. Bordeaux (the cap.), Blaye, Lespatre, Libourne, Bazza, and La Réole.

Girem'dista, v. pl. [Fr. girondins.) (French Hist.). A political party during the great French Revolution (so named because its leading members were deputies for the department of the Gironde), was composed of the more moderate republicans, such as Vergniaud, Brissot, Ducos, Condorcet, Pétion, and many others, who played a conspicuous part in the history of the times. They were called Brissotins, from Brissot. The G. at first were the dominant party in the assembly; but, owing to their disgust at the massacres of Aug. and Sep., 1702, they rendered themselves obnoxious to the Montagnards, who procured the arrest of 21 of their chief members, June 2, 1793. These prisoners were confined in the Conclergeric, and executed Oct. 31.

Giroma, (Si.,) (the-rong',) a town of France, dept. Ariege, 22 m. E of Foix. Manuf. Linens, woollens, and

paper. **Circulette**, (she'rōōet.) n. [Fr., a weather-cock.] One who veers about in his political views according to the changing preponderance of parties; a time-server; a

Girt, (gert,) inp. and pp. of GRD, q. v. Girt, v. a. To gird: to surround.

"The radiant line that girts the globe." - Thomso

"The rad ant line that girts the globe."—Thomson.

Girt, Girth, v. a. [A. S. gyrdan, to surround.] The band or straps by which any burden on a horse's back is made fast, by passing under his belly;—specially applied to the band by which the saddle is fastened.—A circular bandage; the compass measured by a girth or enclosing bandage; the circumference of a tree, an animal, &c.—A small horizontal beam, laid across other timbers to bind them together.—e. a. To bind or fasten with a girth; to gird; to girt.

Gir'wam, a town of Scotland, in Ayreshira, at the confinence of the Girvan River with the Irish Sea, 17 m. S. of Ayr. Though having a commodious harbor, it is a

of Ayr. Though having a commodious harbor, it is a

very poor place.

of Ayr. Though having a commoduous narror, it is a very poor place.

Gis-arm', n. (Mil.) A weapon shaped something like a scythe, from the back of which a short pike projected anteriorly, anciently borne by foot-soldiers, and carried at the end of a pole or staff.

Gise, v. a. Same as Agist, q. v.

Gis'meondite, Gis'moondine, n. (Min.) A native hydratel silicate of alumina, lime, and potash. Color white, grayish, reddish. Lustre splendent; sp. gr. 2265. Comp. Silica 35-38, alumina 27-23, lime 13-12, potash 285, water 21-10. Occurs near Rome, Italy, and in the Val di Noto, Sicily.

Gisers, (she-sore.) a town of France, dept. Eure, on the Epte, 33 m. N.E. of Evreux. Manuf. Woollens, calico, lace, and cotton yarn. Pop. 4000.

Gist. (Fist.) n. [O. Fr. giste, abode, from gist, pp. of gésir, to lie: Lat. jacere.] The main point of an action at law; the point on which an action hinges.

The pith of a matter of any sort; as the gist of an argument.

argument.
Git, n. Same as Grat, q. v.
Gith, n. [M. gith, corncockle.] (Bot.) See Nigria.
Gitth, n. [W. gith, corncockle.] (Bot.) See Nigria.
Gittlerm, n. [Lat. cithara; Gr. kithara.] A sort of guitar or harp; a cithern.
—e. n. To play on the gittern.
Git'tith, n. [Heb.] An instrument of music among the ancient Hebrewa, of which no mention occurs, save in the service of the temple. Buxtory calls it a stringed instrument, and derives the name from Gath, a city of the Philistines, whence King David, on his return, brought it o Jerusalem. Psalms vill., lxxxi., and ixxxi, contain the name in their titles and are supposed to have been specially composed for performance on this instrument.

contain the name in their titles, and are supposed to have been specially composed for performance on this instrument.

Gisgliamo, (ju-le-a'm.) a town of S. Italy, 6 m. N. from Naples; pop. 10,000.

Giugliamo, Sam, a town of S. Italy, in the Val di Massars, 5 m. N.E. of Trapanl. On an adjacent hill (anc. Moss. Eryz) are the ruins of the temple of Venus, celebrated by Virgil, Polybius, &c. Pop. 11,500.

Giulio Roma'mo, or Giulio Pipri, a celebrated Italian painter and architect, the most distinguished of the scholars of Raphael, was E. at Rome, in 1492 or 1498. At an early age he became the pupil of Raphael, assisted him in several important works, and was chosen, with his fellow-scholar Penni, to complete several of his master's unfinished frescoes in the hall of Constantine in the Vatican. In 1524, he entered the service of the duke of Mantua, rebuilt his palace, and decorated the interior with frescoes of the Fall of the Giants, and the story of Capid and Psyche, considered his master-pieces. The execution of these pictures was in great part left to his scholars. He founded a school of art at Mantua, and had among his pupils Primaticcio, Rinaido Mantuano, and Pagni. D. at Mantua, 1546.

Giurgewo, (ge-orige-ec.) a fortified town and port of Wallachia, on the left bank of the Danube, 40 m. S. of Bucharest, and opposite to Routschouk. G. is the most important town on the Wallachian side of the Danube, and was taken from the Turks by the Russians in 1773, 1811, and 1829, when its defences were levelled to the ground. In its vicinity the Russians were, in 1854, defeated by the Turks.

Giust, m. Same as Joury, q. v.

Giust, v. e. (imp. GATE; pp. GIVEX.) [A.S. gifan, gifan; der. gebea.] To bestow; to confer; to grant or transfer without requiring a recompense. — To transmit from one's self to another by hand, speech, or writing; to deliver: to impart; to communicate. — To pay; to pass; to y

GLAC

To give away, to alienate or transfer. To give back, to restore or return. To give forth, to publish or tell. To give over, to yield, quit, or cease; also, to attach to; to conclude lost. To give out, to proclaim or publish. To give up, to resign, to abandon, to deliver. To give way, to yield, to make room for. To give way, (Natl...) to begin rowing, or to row with greater vigor than before tilve, v. n. To yield to pressure; to grow soft; to begin to them. Give, v. n. To yie to melt; to thaw.

"Only a sweet and virtuous soul, Like seasoned timber never gives." — Herbert.

-To move; to recede; as, to give back.

To give into, to go back, to give way. To give in to, to adopt; to embrace. To give over, to cease to act, or strive no more. To give out, to cease, to yield. To give on, or upon, to open on, to overlouk, to look towards; as a room upon a public square, a porch, &c. To give up, to cease from effort, to desist.

Hy'em, p. a. Bestowed; granted; conferred; imparted.

— Admitted or supposed.

— Admitted or supposed.

Giv'er, n. A donor; a bestower; a granter; one who imparts or distributes.

Gives, (fives,) n. pl. Same as Gvvzs, q. r.

Givet, (the-eq.) a fortified town of France, dept. Ardennes, on the Meuse, 28 m. N.E. of Rocroy, on the Belgian frontier. Many. Giue, sealing-wax, and leather. G. was fortified by Vauban.

Giv'in, in lowa, a post-office of Mahaska co.

Giv'ing, n. Act of conferring, bestowing, or imparting. — Allegation; declared intention. — A gift; a benefaction.

ing. — A

Givors, (zhe-ror.) a town of France, dept. Rhone, 14 m. S.W. of Lyons. Manuf. Glass bottles, window-glass, and fine silks. G. is the centre of an extensive coal

Gi'zeh. See GHISER

Giz zard, s. [Fr. gésier, allied to gorier, the throat; L. Lat. gugeru, gigerium.] (2001.) The proper stomach of birds; its texture differs remarkably in grantvorous and carnivorous birds, being thick in the one and thin in the other.

Apprehension, or conception of mind.

" Their spiritual gissards are too warm." — Hudd

To fret the gissard, to harass the imagination.

To fret the gissard, to harass the imagination.—
L'Estrange.

Gla'brate, a. [Lat.glaber, smooth.] (Bot.) Smooth,
or becoming nearly glabrous from age.

Glab'pous, a. [See above.] Smooth, free from hairiness, downiness: without any uneveness.

Gla'cial, a. [Fr. from Lat. glacialis, from glacies, ice.]
Consisting of ice; frozen; exceedingly cold; as, a glacial atmosphere.—Relating to glaciers; as, glacial phenomens.

cial atmosphere. — Helating to graciers; as, guccas pur-nomena.

(Chem.) Presenting the appearance of glass, as crystals.

Gla'cial Drifts, n. (Geol.) Spread over much of the N.
portions of Europe and America, are found remarkable
accumulations of clays, sands, and gravels, sometimes
atratified, sometimes piled rudely together, and containing large and small blocks of stones, which also occur
loosely scattered over the bare rock surface. The solid
rocks underneath these deposits are often found scratched
or rodiabad, as if the overlaying material had been drugged loosely scattered over the bare rock surface. The solid rocks underneath these deposits are often found scratched or polished, as if the overlaying material had been dragged or drifted along over it. Sometimes the deposits are in definite lines; and sometimes the heaps have definite forms. These deposits and effects are evidently the result of the action of glaciers and icebergs, and the formations are known by various names, as "Boulder Clay," Erratic Block Group," "Diluvium," "Drift," &c. (See Icerric, Glaciers.) The action of glaciers in producing drift is easily understood. The stones, sand, and other material arising from the disintegration of rocks on mountain sides fall into the valleys, and are distributed through the mass of the forming glacier. Those at the sides and at the bottom of the glacier, pressed by the weight of the whole moving mass, grind upon the ground and rocks below, thus adding to the quantity of material moved, and leaving the rocks striated and polished. Where the glacier melts, these accumulations are deposited or carried by the stream. Should the entire glacier melt away, the dobris would remain as drift. When the glacier reaches the sea-coast, and advancing into the water breaks off as an iceberg, the broken portion may bear with it an immense mass of broken rock and mud. As the glacier is drifted away by currents to warmer latitudes, the mass of rocks, mud, &c., will be gradually deposited on the sea bottom as the glacier melts, or left on the sea bottom as the glacier melts, or left on the sea bottom as the glacier melts, or left on the sea bottom as the glacier melts, or left on the sea bottom as the glacier melts, or left on the sea bottom as the glacier melts, or left on the sea bottom as the glacier melts, or left on the sea bottom as the glacier melts, or left on the sea bottom as the glacier melts. and mud. As the glacier is drifted away by currents to warmer latitudes, the mass of rocks, mud, &c., will be gradually deposited on the sea bottom as the glacier melta, or left on the shoals and higher rocks where the glacier might strand. Thus may have been produced the various phenomena of G. D. They are often complicated in nature by subsequent elevations and denudations. In America the drift extends from the polar regions to the vicinity of the 40th degree of N. Lat. In the valleys of the Oblo and the Mississippi it extends further southward. In Europe it is not found in the countries bordering on the Mediterranean. In vertical range, the drift in America covers all the mountain peaks E. of the Rocky Mountains, except several hundred feet of the summit of Mt. Washington.

Glacialist, n. One who attributes all the phenomena of the drift in geology to the action of ice during the glacial period; an adherent to the glacial system. Clacial formed by freezing; ice.—The process of forming glaciers.

mission. — To pay or render, as thanks. — To produce; to show; to send forth or exhibit; to emit, as heat or light. — To addict; to apply; to devote one's self. — To resign; to yield; to pledge; to present. — To allow; to admit.

"I give not heaven for lost." — Bitton.

"I give not heaven for lost." — Bitton.

"I give not heaven for lost." — Bitton.



Fig. 1161. - GREAT GLACIER OF BUTE INLET.

those of Switzerland have been more carefully examined, and more fully described, than those of any other country. When snow accumulates in great masses it is found we consist of successive layers, more or less crystalline, which diminish in thickness as the depth increases. At a certain depth the snow, from the pressure, and from successive thawings and freezings, passes into clear ice. The mass so formed, under the influence of gravity, gradually descends the slope of the mountain into a valley; and in this manner some valleys, twenty miles long and three or four broad, are completely filled with ice to the depth of hundreds of feet. This immense mass, like a river of ice, continues to descend with a rate of motion varied by circumstances, until, as in the Alpine glaciers, it reaches a point sometimes as low as 4,000 feet below the line of perpetual snow, and the strange spectacle is presented of vast masses of ice protruded into the midst of fertile valleys, in the immediate vicinity of cultivated lands, or surrounded by verdent forcets. From the large accessions of snow which glaciers receive in winter, it might reasonably be conjectured that they must in time so increase in size as to treak beyond their usual limits and overwhelm the cultivated country; but the warm atmosphere of the lower valleys into which they descend dend to construct the mineral dends to construct the value of the lower valleys into which they descend dends to construct the country of the value of the lower valleys into which they descend dends to construct the country. to consist of successive layers, more or less crystalline, which diminish in thickness as the depth increases. At break beyond their usual limits and overwhelm the cul-tivated country: but the warm atmosphere of the lower valleys into which they descend, tends to constantly diminish their bulk, thus furnishing a constant check to their encroachment upon them.— Motion of G. This is very gradual, but more rapid in the summer than in the winter. The G. of Aar in Switzerland appears to have been moving at the rate of about 375 ft. annually; some others have been observed to move, during the summer, others have been observed to move, during the summer, 3 or 4 feet per day. The average motion may perhaps be given as from 8 to 10 inches per day. Various theories have been advanced to account for this motion. By some it is attributed to the force arising from the expansion of freezing water in the porce and crevices of the mass; others attribute to it a semi-fluidity that enables it to flow down the valley as a viacous substance, like partially melted pitch would flow. The researches of Tyndall and Faraday show that ice may be plastic without being viscous, and that the motion of the G. may be the result of the minute fracture and regelation of the ce particles, which move as if they were sand, continually thawing and re-freezing. Glaciers from valleys running into each other may unite; the tributary glaciers welding themselves together to form a trunk G. The main valley and its tributaries are often sinuous, and the tributaries must change their course to unite with main valley and its fributaries are often sinuous, and the tributaries must change their course to unite with the trunk. The width of the valley often varies, and the G. is forced through the narrow gorges, widening after it passes them. The centre of the G. moves more quickly than the sides, and the surface more quickly than the bottom; the point of swiftest motion, following the same law as that observed in the flow of rivers, shiftthe same law as that observed in the now of rivers, shifting from one side of the centre to the other, as the flexure of the valley changes. The masses of rock-fragmenta, mud, and sand that glaciers push before them, or carry on their surface (see GLACIAL DRIPY), are called worasnes.

Lateral morasnes are formed from the débris which loads on their surface (see GLACIAL Dairy), are called mordines. Lateral moraines are formed from the débris which loads the G. along its edges; medial moraines are formed on a trunk glacier by the union of the lateral moraines of its tributaries; and terminal moraines are formed from the débris carried by the G. to its terminus and there deposited. When subjected to a strain, a G. does not yield by stretching, but by breaking, and thus originates the reveases that are found on its surface. Marginal crevases are caused by the oblique strain consequent upon the more rapid motion of the center, transverse by the passage of the G. over the summit of an incline; and longitudinal by pressure from behind and resistance in front, causing the mass to split at right angles to the pressure. Moslins are formed by deep cracks intersecting glacier rivulets. The water descending such cracks scoops out a shaft, sometimes many feet wide and hundreds of feet deep, into which the cataract plunges with a sound like thunder. Glacier-tables are large, isolated masses of rock, that, resting on the G., protect the ice below until the melting away of the surface about them leaves them poised on the top of a column of ice. For affects of glaciers, see Glacial Dairs. The smoothed, rounded, and striated rock surfaces, gravel deposits, long trains of gravel and sand, isolated rocks or boulders, &c., are glacial phenomena that indicate a time not distant, geologically speaking, when a large part of the temperate region of the northern hemisphere was subject to glacial action. Glaciers exist among the Himaject to glacial action. Glaciers exist among the Hima-laya Mountains on a grand scale, and in high Arctic latitudes, where the snow-line comes down to the sea-level, they form apparently deep, unbroken seas of ice, extending over vast tracts of country, sloping towards the coast. At the shore, large masses are constantly being ing over vast tracts of country, sloping towards the coast. At the shore, large masses are constantly being detached and floated away as icebergs. (See ICEBERGS.) The great Humboldt G. described by Dr. Kane, on the coast of Greenland, is about 45 m. wide where it reaches the see. The structure and motion of glaciers have been elaborately investigated by Rendu, Agassiz, Forbes, and Tundall.

full of ice. They are found chiefly in the Alpine mounfull of ice. They are found chiefly in the Alpine mountains, and are unconnected with any glacial system. They are found when the mean temperature of the surface of the earth is above the freezing point, and are from 50 to 200 feet below the surface. They thus furnish exceptions to the rule that the temperature increases from the surface toward the centre of the earth.

Glacis, n. [Fr., from L. Lat. glatia, possibly from Ger. glati, smooth, or from Lat. glatia, possibly from Ger. glati, amooth, or from Lat. glatia, possibly from Ger. glati, smooth, or from Lat. glatia, possibly from Ger. glati, smooth, or from Lat. glatia, possibly from Ger. glati, smooth, or from Lat. glatia, possibly from Ger. glati, smooth, or from Lat. glatia, possibly from Ger. glati, smooth, or from Lat. glatia, possible slope. (Port) The inclined plane or slope that extends from the exterior of the covered way towards the open country (see Fig. 749). The crestof the glacis is about seven or eight feet above the terreplein of the covered way, which coincides with the natural level of the soil surrounding the fortifications. The slope itself extends

rounding the fortifications. The slope itself extends about 150 feet from the covered way, having an inclina-tion of one foot in twenty, or thereabouts, from the crest of the work to the natural surface of the ground. The glacis covers the masonry or rivetments of that part of the rampart which forms the scarp of the ditch, and serves to hide it from the batteries of the ditch, and serves to hide it from the batteries of the enemy. It also conceals solidiers who are in the covered way from the view of the investing force, and protects them from their fire. A banquette is usually constructed in the covered way at the foot of the interior of the glacia, which enables the besieged to pour a fire of musketry from thence on any party engaged in the construction of field-works and approaches, or advancing to the assault of the fortress.

Clad, a. [A. S. glacd, glad; Ger. glatt, bright, joyful, smooth.] Affected with pleasure, or moderate joy; moderately happy; pleased; exhilarated; rendered cheerful or joyous;—said of persons, and followed by of, at, or with, before the cause of joy.—Wearing the appearance of joy; wearing a gay appearance; showy;

of, at, or wath, before the cause of 199.— Wearing the appearance of joy; wearing a gay appearance; show; bright; affording or imparting pleasure; cheering; ex-bilarating; pleasing; expressing gladness or joy; excit-

ing joy.

• a. To affect with pleasure; to cheer; to gladden; to

"The juice that glade the heart of man." - Pope

"The jules that glads the heart of man."—Pops.

Glad'bach, a town of Rhenish Prussia, on the river Niers, 6 in. N.E. of Mühlheim. Manuf. Linen, cotton, and woollen goods. Pop. 4,755.

Glad'dem, v. a. To cheer; to please; to exhilarate; to comfort; to enliver; to graiffy.

—v. n. To rejoice; to be glad.

Glad'deming, p. a. Cheering; exhilarating.

Glad'dem, n. One who cheers or exhilarates.

Glad'den, n. [Probably from Icel. glaedda, glotha, to brighten, pp. gloth, lighted up.] An opening in a wood, through which light may shine; any green clear space or opening in a wood. — An opening or passage made through a wood, by lopping off the branches of the trees.

—(Contr. of Everglade, q. v.] A place left unfrozen in a lake, pond, or river; also a patch of smooth ice, as contradistinguished from the rough or uneven ice around it. (U. S.)

Glade, in Pennsylvania, a growing township of Warren

Glade, in Pennsylvania, a growing township of Warren

Glade, in Pennsylvania, a growing to usually of various county.

Glade Mills, in Pennsylvania, a post-village of Butler co., on Ginde Creek, about 22 m. N. of Pittaburg.

Gla'der, Gla'den, n. [Lat. gladius, a sword, or from Eng. glude, as being the character of vegetation in the Evergiades.] (Bot.) A general name for all gladiate, or sword-shaped plants, springing up with a broad, blade-like leaf; sword-grass.

Glade Run, in Pennsylvania, a post-office of Warren co.

Glades, in Tennessee, a past-office of Morgan co.
Glades borough, in North Carolina, a post-office of

Randolph co. Glades borough, in Virginia, a P. O. of Carroll co. Glade Spring, in Virginia, a post-village of Washington co., about 12 m. E.N.E. of Abington. Pop. (1897)

about 500.

Glades' ville, in Georgia, a post-office of Jasper co.

Gladiate, a. [Fr. gladić, from Lat. gladius, a sword.]

(Bot.) Sword-shaped; resembling the blade of a sword in form, as the leaf of the sedge.

Gladiator, n. [Lat. a swordsman, from gladius, a sword.] (Roman Hist.) A name applied to those persons who, without quarrel, fought with each other in the public arena, for the amassement of the public. The custom originated in Etruria, where such fights took the place of the human sacrifices, which had previously been customary at the funeral ceremonies of distinguished persons, but it spread rapidly throughout Italy, and in Capua especially became an established amusement of the populace. The first appearance of

the gladiatorial games (manus gladiatorius) in Rome, was B. C. 286. They soon became so popular, that in the imperial times they had become one of the favorite amusements of the people, and were lavishly bestowed upon them by such sediles, practors, consuls, and emperors, as wished to gain, or to retain the favor of the populace. B. c. 183, at the funeral of Quinctius Varro, populace. B. c. 183, at the funeral of Quinctius Varro, 120 gladiators fought to the death, and Augustus decreed that this number should never be exceeded; but before his time even still greater numbers had appeared upon the arena, and the number of combatants was greatly increased under the emperors Caligula, Claudius, Nero, Trajan, Adrian, and Commodus, the last of whom appeared himself in the character of G. in the arena. Under Trajan, gladiatorial fights and combats of wild animals, (the latter often conjoined with the former, were kept up for 123 days, during which time 11,000 beasts were slain, and over 10,000 G. fought. In ancient times, the Forum was the usual place for such spectacles; but on occasions of burial, they were fought ancient times, the Forum was the usual place for such spectacles; but on occasions of burial, they were fought immediately in front of the funeral pyre by gladiators, thence called *Bustuarii*. In later days, amplitheatres were erected. The *G*'s were originally slaves, for the most part captives in war. They were maintained and drilled in bands (familie) at Rome and other cities, particularly at Convention and Revenue in excellent statics. drilled in bands (families) at home and other cities, particularly at Capus and Ravenna, in special establishments (ludi gladatorii), under the charge of overseers (lanists), some of whom made it a profitable business by the hire or sale of G.a. and others stood at the same time in the pay of wealthy politicians, to whom the possession of large numbers of G.a. was something more than a matter of mere amusement. Thus Clodius and than a matter of mere anusement. Thus Clodius and Milo carried on their contest through G's. Casar at Capua had over 5,000 of them in his pay, against whom Pompey was first obliged to defend himself, at the outbreak of the civil war. Though the G's were at first only armed with swords, yet in later days, many differerent kinds of them were distinguished according to their mode of fighting, armor, &c. The mirmilo was armed with a buckler and a short sword, and bore on his cases at the force of the fith warming the many let means the force of the fith warming the many let means the force of the fith warming the many let means the same of the fith warming the many let means the means of the fith warming the means the means of the fith warming the means the means the means of the fith warming the means the me armed with a buckler and a short sword, and bore on his casque the figure of the fish murnillo, whence his name; — the retarius, who fought against him, had a trident in the right hand, and in the other a net, with which he strove to entangle the head of his opponent; — the essedarius, who fought from a charlot (essedum); — the audabates, or equestres, who fought on horseback; — the swere announced in advance by means of placards (libelli), and usually began with blunted weapons, but with the excitement of the multitude, these were through the confusion, and the G. fought for life. When a G. was severely wounded, he threw down his arms and remained at the mercy of the conqueror, who killed him unless verely wounded, he threw down his arms and remained at the mercy of the conqueror, who killed him unless the spectators opposed it; if they raised their hands, turning the thumb downwards, it was a sign that they wished his life spared; but if they raised the thumb, he was slain. The arrival of the emperor was also a signal of mercy to the vanquished. After 8 years of service, the gladiators were allowed to retire from the arena, in token of which discharge, they were presented with a wooden foil (rudis) and a palm of silver. These cruel sports, after a continuance of over 600 years, were interdicted by Constantine the Great, A. D. 326; but they were not finally abolished until the time of Honorius, A. D. 402. The ancients have left us sundry beautiful statues of The ancients have left us sundry beautiful statues of gladiators, the two most celebrated of which are the storghese Gladiator, and the Dying Gladiator, both at

torius.] Pertuining to gladiators, or to the ancient combats of men in the Roman arena.

combate of men in the Roman arena.

Glad'latorship, n. Conduct or quality of a gladiator.

Glad'latorship, n. Conduct or quality of a gladiator.

Gladiorius, l. [Lat. pladiatorius.] Gladiatorial;
having reference to the combate of gladiators.

Gladiolus, n. [Lat., dim. of gladiat, a sword.] (Bot.)

The Gladiolus, a genus of plants, order Iridaces. They
are bulbous plants, with large and showy flowers, some
of which are commonly called corn-flag. The numerous
varieties cultivated in modern gardens are the results
of intercrossing of some African species, especially of G.
natalensis, floribundus, and cardinalis.

Glad'ly, adv. With pleasure; joyfully; willingly;
cheerfully; ss. "evrybody will gladiy see you." Blount.

Glad'nees, n. (See Glan.) State of being glad; joy,
or a moderate degree of exhilaration; cheerfulness;
satisfaction; cheer of mind.

or a moderate degree of exhilaration; cheerfulness; satisfaction; cheer of mind.

Glado'wa. [Turk. Pet. Islam.] A town of Servia on the Danube, situate immediately below the "fron Gate," and the principal station of the Danube Steam Navigation Co. It is a mere collection of wretched huts.

Gladsome, glad'sum.) a. [Glad and some.] Pleased; joyini; cheerful; exhilarated; cheerful.

The degree as present in circling troops strend "-Drodes.

The gladsome ghosts in circling troops attend."

Cause of joy or gladness; pleasing; as, "gladsome day." Glad'somely, adv. In a gladsome manner; with joy;

pleasurably.

Glad'someness, n. Joy, or moderate exhibitation

Glad'somemess, n. Joy, or moderate exhilaration; pleasure of mind.
Glad'stome, William Ewarr, an English statesman, orator, and author, B. at Liverpool, 1809, the son of Sir John Gladatone, Bert, an eminent merchant of that place. He was educated at Eton and Christ Church Coll., Oxford, where he graduated in 1831. Mr. G. entered parliament in the following year, where he quickly distinguished himself by his splendid oratorical and forensic powers. In 1835 he was appointed, by Sir R. Peel, Under-Sec. of State for the Colonies, and in 1841 Vice-Precident of the Board of Trade and a privy-councillor. In 1846, he ably supported his chief's great measure for the repeal of the Corn laws. In 1847, Mr. G. was returned

to parliament by the University of Oxford, which is continued to represent until 1865. In 1852, under Lord Aberdeen's "Coalition" ministry, he accepted office as Chancellor of the Exchequer and held the same pas subsequently in Lord Palmerston's cabinet. In this capacity he proved himself to be the ablest financial minister England had known, and warmly supported Mr. Cobden's commercial treaty with France. After the death of Lord Palmerston, Mr. G. became leader of the Hause of Commons retainings the Changellachier, die Hause of Commons retainings the Changellachier. the House of Commons, retaining the Chancellership of the Exchequer in Earl Russell's second administration. On the retirement of the Derby cabinet in 1869, Mr. 6, succeeded to the helm of State as First Minister of the succeeded to the helm of State as First Minister of the Crown. In 1869 be introduced a measure for the dissolu-tion of the establishment of the Irish Church, which passed into law after a prolonged and obstinate resist-ance on the side of the Conservative party. In Feb. 1870, the Gladstone cabinet also introduced a measure before Parliament for the modification and adjustment of the Irish land question. This became a law on Aug. 1, 1870. A succession of reform measures followed, inof the Irish land question. This became a law on Au. 1, 1870. A succession of reform measures followed, including an act for the protection of voters, the abolition of the purchase of army commissions, and the creation of a system of public education. Reform, however, had been pushed too energetically; a reaction set in, the government was defeated, and Diaraeli saked to forn a new cabinet. He declined and G. was forced to remain premier. He now dissolved Parliament and called for a rew election, in which his party was defeated and the Conservatives returned to power, with Disraeli at their head. G. now withdrew from party affairs and for the succeding six years occupied himself in literary studie. In 1880 a new reaction set in, the Liberals came again into power with a large majority, and G. became a second time Prime Minister. His new administration was one of trouble and distruction. There were wars in various quarters and disturbances in Ireland, the latter forcing him to adopt measures of coercion which gave rise to bitter opposition from the Irish people and members of Parliament. Yet in the midst of these distructions G. succeeded in carrying through Parliament a great scheme of reform in the suffrage, which re-arranged the constituencies and yielded a system of nearly universal suffrage. Defeated in 1885, G. gave up the premierability for a time to Lord Salisbour, but in the election the constituencies and yielded a system of nearly universal suffrage. Defeated in 1885, G. gave up the premierabile for a time to Lord Salisbury, but in the election of the same year the Liberals won a great victory and G. returned triumphantly into office. He now adopted a policy of home rule for Ireland that created a stem of opposition in the country, introducing a bill for an Irish Parliament, which led to his quick defeat and brought back the Conservatives to power. He consuded to advocate Irish autonomy; in 1882 was returned to power for the fourth time, and in 1893 brought in a new bill for Irish government, which was passed in the House of Commons but thrown out by a decisive tot in the House of Lords. In 1894 G. retired voluntrily from the premierahlp on account of failing eyesight, but he kept a close outlook on the course of affairs and spake with no uncertain voice, his opinion of the Armenian he kept a close outlook on the course of affairs and spake, with no uncertain voice, his opinion of the Armenian measurers and the conduct of the Powers on the Cretan question. In addition to his fame as an orator and stateman, Mr. G. has made himself something of a name in literature, particularly from his studies of Homer and his times. He has also written much on religious subjects, and has made himself notable by outbursts of indignation concerning the Bulgarian massacres, &c. Gladwim, in Michigen, a N.E. central county; area, acout 540 sq. m. Ricar. Gladwim. Surface, generally level. Pop. (1894) 4,300.
Glasie, n. [O. Fr. gratre and clair, the white of an egg, a clear thing, from Lat. clarus, clear. See Claza.] The white of an egg, or any viscous transparent substance resembling it.

—A kind of halberd.

—v. a. To smear with the white of an egg; to varnish.

—v. a. To smear with the white of an egg; to varnish.

Glair'cous, a. Having resemblance to the white of

Glair'ine, s. A glairy, filmy substance seen on the surface of some thermal waters.
Glair'y, a. Like glair, or partaking of its qualities.
Glaive, n. Same as Glave, q. v.
Gla'ma, n. [Gr.; Lat. glamia.] (Med.) Same as Lip

PITUDO, q. v.

(Zofi.) A species of camel.

Glamm'mis, a village of Scotland, 5 m. S.W. of Forist.

Near it is Glammis Castle, in which is still shown the
chamber in which Malcolm II. was assessinated, 163.

It was one of the castles of MacLeth, and gave him is
hereditary title of Thane of Glammis.

nereditary title of Thane of Glammis.

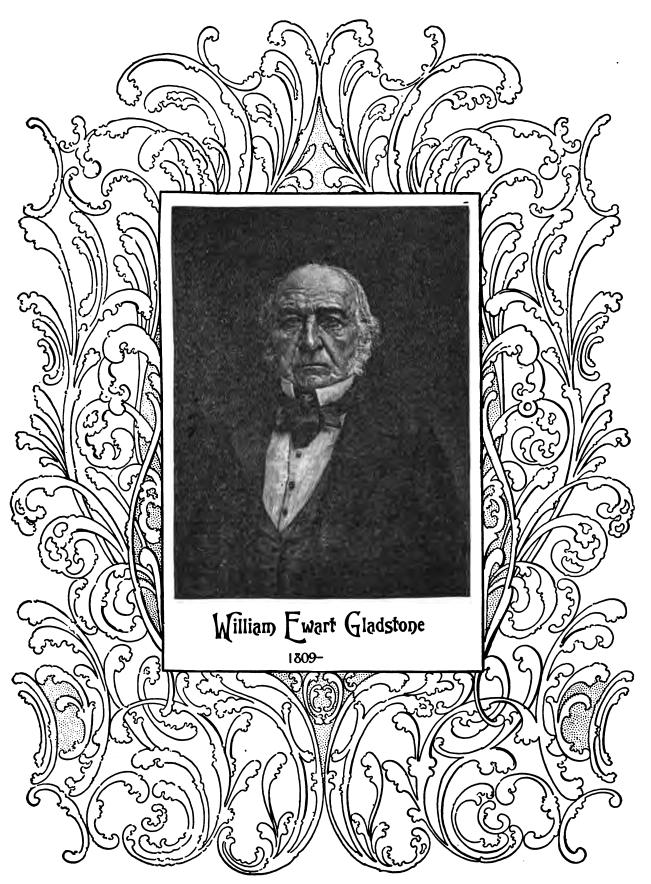
"Glammis, I am, and Cawdor, the greatest—is behisd."—Sch.

Glammer gam, a co. of S. Wales, England, bounded S. by the Bristol Channel, and surrounded on the other sides by the counties of Brecon, Monmouth, and Carnathen. In the S. the land forms the beautiful vale of Glammorgan, but rises rapidly to the N., becoming mounties ous and picturesque. The co. has an area of 792 sq. m., and is watered by the Tuff, Towey. Rhymney, Arca, Neath, and some other rivers of less importance. The mineral produce is considerable, consisting of coal, limental produce in Wales are to be found at Aberdare, Dowland, Neath, Swansea and Methyr Tydril. (v. Cardiff. Pro. (1885) 692,415.

Glammour, (glamöör,) n. (bcc., from Icel, glamagar, A species of witchery cast over the eyesight, making things appear different from their real aspect; a spell; as, she cast a glamour over him.

Glamec, n. (der. glazz, gloss, brilliancy: Icel. glat. w. shine; Dan. glands. splendor, lustre. Allied to Glamz, q. v.) A sudden shoot of light or splendor.

"How fleet is the glance of the mind: "— Geoger. sis, I am, and Cawdor, the greatest — is b



A glimpse or sudden look; a rapid or momentary view or cast; a snatch of sight; as, to glance over a paper.

(Min.) A term often applied in popular language, and (Min.) A term often applied in popular language, and also by mineralogista, to a numerous order or family of minerals, of which Galma (q, v,) or lead-G. may be regarded as a type. All of them are metallic, and many of them are known by names indicating the metal which is their principal constituent, as sliver-G. G. copper, &c. -e. a. (Ger. gilinzen; Gr. glanssó.) To shoot or dart a ray of light or splendor.

"Lite light on many a shivered lance." — Temapson.

To dart a rider to five fi in ordinar a poblique direction: as a

-To dart aside; to fly off in an oblique direction; as, glancing arrow.

"The jest did glance away from me." — Shake.

"The jest did glance away from me." — SHARE.

—To look with a sudden, rapid cast of the eye; to take hasty glimpse; to snatch a momentary view.

"They sit again, and sigh and glance; then dance again, and kiss.

Sir J. Suckling.

To hint; to cast a word or passing reflection; to censure by oblique hints; — sometimes preceding at.

'How canst thou . . . glancs at my credit with Hyppolita?' 'Shake

To twinkle; to be only momentarily visible; to move

quickly and transiently. "The trip of those small glassing feet." — Macaulay.
v. a. To shoot or dart suddenly or obliquely; to cast the

eye nimbly for a moment.

"Glancing an eye of pity on his lo

Glance'-cobalt, n. Anthracter, q. v. Glance'-cobalt, n. (Min.) Same as Cobaltine, q. v. Glance'-cobalt, n. (Min.) Chalcotte, or sulphuret of copper. It is of metallic lustre, blackish lead-gray color, often tarnished with blue or green. Sp. gr. b5 to 58. Comp. Sulphur 20-2, copper 79-8. Occurs in fine crystals in Cornwall, Eng., Bristol, Conn., and in many other localities.

Glan'cingly, adv. By glancing; in a glancing m ner; transiently.

Glamé eingly, adv. By glancing; in a glancing manner; transiently.

Glamé, n. [Lat. glans, glan-lis, the nut-like fruit of foreign trees; allied to Gr. bal-mas, an acorn; Ar. ballat; Hind. buloot.] (Anat.) A small, round, oval, or oblong body; a small organ secreting a fluid of some special nature.—Though we style all glands as small, such is not in fact the case, as some are of considerable size, to which the term of organ is generally applied. Of this nature is the liver, which, as far as it is a secreting substance, is a gland; so also is the pancreas, the spleen, and the kidneys. It is customary, however, to describe such parts as organs, and confine the word gland to those small bodies, many of them too minute for common observation, but which yet perform most important functions in the animal economy. Of these are the system of salivary glands, situated beneath the tongue, the jaw, and in the cheeks, and without the secretion of which we should be unable to taste or enjoy our food; the perspiratory glands, an immense congeries of minute glands lying below the skin, each one furnished with a spiral tube or duct, that opens out on the surface of the cuticle at what are called the pores, and discharge through these mouths the perspiration which they are constantly collecting to pour out, and not only keeps the skin healthy by that means, but at the same time carries off the refuse moisture from the body by that ingenious plan. When from any cause these glands do not pour out their fluid, the skin loses all its healthy properties, both as a breathing apparatus and as an organ of feeling. (See Perspirators, Insensielle.) The lachrymal both as a breathing appractus and as an organ of feel-ing. (See PERSPIRATION, INSENSIBLE.) The lachrymal and lymphatic glands have already been described under Eys and Digestion, q. v. There are still many other single glands and systems of glands, such as the thyroid in the match the case of courts of the countries of such as in the neck, the seat of goitre, the mesenteric glands of the abdomen, &c. Dr. Carpenter very well exhibits the commencement of the progressive complication which is observed in most of the glandular structures occurring in man and the higher animals in the accompanying diagram (Fig. 1163), where A represents a portion of the

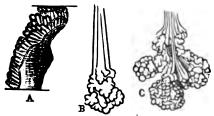


Fig. 1163 - GLANDS.

proventriculus of a falcon, in which follicles formed by proventriculus of a falcon, in which follicles formed by simple inversion occur, while B represents a gastric gland from the middle of the human stomach, and C a still more complicated form, produced by the follicles doubling upon themselves, taken from near the pylorus. Whatever be the complexity in the general arrangement of the elements of a gland in the higher animals, these elements are always found to resolve themselves, these elements are always found to resolve themselves, into follicles or tubuli, which enclose the true secreting cells. The Lymphatic glands belong to a different class of structures, and will be described under LYMPHATIC STETEM.

(Med. and Surg.) The lymphatic glands are subject to enlargement from acute inflammation and abscess, usually in consequence of irritation of the part from which

their lymphatics spring, as in the case of scarlet fever, in which the glands of the throat are affected; in gonor-rhea, the glands of the groin, &c. The treatment of in which the glands of the throat are affected; in gonor-neea, the glands of the groin, &c. The treatment of such abscesses belongs to the ordinary principles of surgery. (See Assess.) A much more troublesome affection of the glands is the slow, comparatively painless, at first dense solid swelling which they undergo in Scrofula, which tends very slowly, if at all, to suppuration, and sometimes remains for years. In Syphilis and Cancer there are also enlargements of the Jymphatic glands. Scrofulous or tuberular disease of the mesenteric glands. Scrofulous or tubercular disease of the mesenteric glands

Scrofulous or tubercular disease of the mesenteric glands in children constitutes Tubes mesenterica.

(Bot.) A wart-like swelling of various forms found on the surface of plants, or at the base or apex of their hairs. Lenticular glands are brown oval spots found upon the bark of many plants, especially willows, indicating the points from which roots will appear if the branch be placed in circumstances favorable to their production. They are, in fact, nothing but protuberances formed by the pressure upon the epidermisof subjacent roots attempting to pierce through it.

(Mach.) The cupped collar, lined with brase, which encircles the piston, or air-pump rod, of a steam-engine

Mach.) The cupped collar, lined with brass, which encircles the piston, or air-pump rod, of a steam-engine where it passes through the cylinder cover; it is introduced for the purpose of holding oil or tallow for the lubrication of the working parts, and for compressing the packing of the stuffing-box upon which it is screwed down. The term is generally applied in the sense of a joint holding lubricating fluid, with tight packing. Glass deered, a. Euffering from glanders, as a horse. Glass deered, a. Euffering from glanders, as a horse of the mucous membrane in horses, in which the glands beneath and within the lower isw are enlarged.

of the mucous membrane in horses, in which the glands beneath and within the lower jaw are enlarged.

Glandiferous, a. [Lat. glandifer—glandiz, and fem, to bear or produce.] Bearing acorns or fruit; producing nuts or mast; as glandiferous trees.

Glass'different, n. [Lat. glans, an acorn, and forma, form.] In the shape of a gland or acorn; resembling a gland.

Giandon, a harbor of Ireland, co. of Cork, abt. 3 m. W. of Kose Bay. It is abt. 1 m. wide by 3 m. in length.—A village of Ireland, co. of Cork, abt. 2 m. above the mouth of the harbor.

Glam'dore, a harbor of Ireland, co. of Cork, abt 34 m. S.S.W. of Cork. Lat. 51° 35' N., Lon. 9° 5' W. —A town of Ireland, co. of Cork, on a harbor of the same

name.

Gland'ular, a. Containing glands; consisting of glands; pertaining to glands; covered with hairs bearing glands on their tips, as certain plants.

Glandulation, m. [Fr.] [Bot.] The situation and structure of the glands in plants.

Glandule, [gland'ül.], n. [Fr.; Lat. glandula.] A small gland or secretory vessel.

Glanduliferous. a. [Lat. glandula, and ferra, to lear!] Reserving slands

Giamduiiferous, a. [Lat. glandula, and ferra, to bear.] Bearing glands.
Glam'dulose, Glam'dulous, a. [Fr. glanduleux, from L. Lat. glandulosus.] Containing glands; consisting of glands: pertaining to glands; glandulous tumors."—Arbuthnot.
Glams, n. [Lat., an acorn.] (Bot.) An inferior, dry, hard, indehiscent, one-celled, one or two-seeded fruit, produced from an ovary of two or more cells, with one or more ovules in each cell; all of which, except one or two, becomes abortive in the progress of growth. The three layers constituting the pericarp are firmly coherent and indistinguishable, and the whole is more or less inclosed by that description of involucre which is called a cupule. The acorn and the filbert are examples of this

cupule. The a The acorn and the filbert are examples of this

kind of fruit.

(Med.) Bronchocele; — a pessary; — a suppository.

(Med.) Bronchocele; — a pessary; — a suppository.

(Anat.) The extremity of the penis and of the clitoris.

(Slaphy'ra, Glarei'ra, wife of Archelaus, high-priest of Beliona, at Comana, in Cappadocia, seduced Marc Antony by her beauty, and obtained from him the kingdom of Cappadocia for her sons, Sisenna and Archelaus.

— Another G., grand-daughter of the above, married successively Alexander, son of Herod, Juba, king of Mauritania, and Archelaus, king of Judes, his brother-in-law.

Glare, n. [Dan. glar; Icel. gler, glass; allied to Lat. clarus, and glond. See Clara and Glora.] A bright, dazzling, overpowering light; clear brilliant lustre or splendor, that dazzles the eyes.

"Maidens, like moths, are ever caught by glars." — Bros.

"Maidens, like moths, are ever caught by glare." - By fierce, piercing, penetrating look.

A lion now he stalks with flery glars.

A transparent viscous substance. — See Glair.
 v. n. To shine with a clear, bright, dazzling light.
 "Behold this man in a ferce glaring light." — Addison.

-To look with fierce piercing eyes.
"Look, how pale he gieres!" - Shake.

To shine with ostentatious lustre; to present excessive brightness of appearance; as, a glaring picture, a glar-

Clare, v. a. To shoot out, or cast forth, as a dazzling, overpowering light; as, her eyes glared at the suggestion.

8° 51' and 9° 15' E., having N. and E. the cant. of St. Gatt, S.E. and S. the Grisons, and W. Url and Schwytz. Length N. to S. 27 m. Area, 279 sq. m. G. is cold and mountainous, yet affords cattle, cheese, butter, orchards, an immense variety of rare plants, metals, crystals, medical springs, petrifactions, and large slates. It consists of the valley of the river Linth and its affiuents, and exact on the N is enclosed by high populatin ranges. cept on the N. is euclosed by high mountain ranges; the Dodi, at its S. extremity, attaining an allitude of 11,900 ft., being the highest summit in E. Switzerland. G. formerly belonged to the Convent of Seckingen, which enfectfied it in 1299 to the House of Hapsburg. In 1352 it entered into the Swiss Confederation, and its

which enfeoffed it in 1299 to the House of Hapsburg. In 1362 it entered into the Swiss Confederation, and its last constitution, thoroughly democratic, dates from 1836. Pop. (1835) about 37,500. GLARE, its capital, is situated near the Linth, 33 m. S. E. of Zurich, and 6 m. S. of Lake Wallenstadt. Mansf. Printed cotton goods, muslins, woollens, and Schabzieger cheese. Pop. (1895) 5,760. Glass'coo, in New York, a post-village of Ulster co., about 48 m. S. of Albany. Pop. (1890) 907. Glass'cook, or Glass'cook, in Georgia, an E. co.; area, about 90 sq. m. Bieers. Ogeechee river and Rocky Comfort creek. Surface, generally level; soil, fertile. Cup. Gloson. Pop. (1890) 3,720. Glass'coow, a village of Ontario, co. of Waterloo, on Grand river, opposite Bridgeport. Pop. about 100. Glasserite, n. (Min.) Same as Aparentality, q. v. Glasgow, (glas'go.) the most important and populous manufacturing and commercial city of Scotland, in the co. of Lanark, on both sides of the Clyde, 42 m. E. by S. of Edinburgh. The old part of the city is badly built, dirty, and dark; but in the modern quarter the streets are large and filled with fine structure. The city contains many public buildings, among which the most celebrated is the cathedral of St. Mungo, a splendid specimen of Gothic architecture, begun in 1123, the Court-house, Royal Exchange, Trader's Hall, Town-Hall, and the Royal Infirmary. G. contains a celebrated university, founded in 1450, which has a library of 60,000 vols., and possesses a museum of natural history, paintings, medals, anatomical preparations, &c. There are besides the Andersonian Infirmary. G contains a celebrated university, founded in 1450, which has a library of 60,000 vols., and possesses a museum of natural history, psintings, medals, anatomical preparations, &c. There are besides the Andersonian University, the College of Physicians, Mechanics' Institute, &c. Manuf. Cottons, bandans handkerchiefs, mushins, soap, cordage, flint-glass, cudbear. &c. G. is also noted for its ship-building and engineering establishments, chemical works, type-foundries, and almost every kind of production in the mechanical arts. The Clyde is navigable for vessels drawing 7 or 8 ft. of water; and the wharves and docks afford extensive accommodation for vessels of every description. The origin of G. is generally attributed to 8t. Mungo, who is said to have here founded, in 560, a bishopric, afterwards erected into an archiepiscopal see. It was here that Watt first commenced to improve the steam-engine; and on the Clyde, the Comet, the first boat in Europe successfully propelled by steam, was launched in 1812, five years after the Clermont had made her way up the Hudson. Pop. (1890) 792,728; (1897) estimated 862,500.

Glass'gow, in Madama, a post-office of Butler co.
Glass'gow, in Madama, a post-office of Butler co.
Glass'gow, in Menace, a post-village of Newcastle co., about 16 m. S. W. of Wilmington.
Glass'gow, in Menace, a post-village of Scott co., about 12 m. E. S. E. of Fairfield.
Glass'gow, in Kensacky, a post-village, cap. of Barren co., about 126 m. S. W. of Frankfort. Pop. (1890) 2,051.

12 m. E. S. E. of Fairfield.
Glass'gow, in Kentucky, a post-village, cap. of Barren co., about 126 m. S. W. of Frankfort. Pop. (1890) 2,051.
Glass'gow, in Missouri, a city of Howard co., on the Missouri river, and the C. & A. and Wabsah R. Ra., about 72 miles N. W. of Jefferson City. Tobacco is largely shipped. Pop. (1897) about 2,109.
Glass'gow, in Poiso, a post-village of Columbiana co., about 6 m. N. W. of Wellsville.
Glass'gow in Penssylvania, a post-village of Cambria co., on the P. & N. W. R. R.
Glass'gow Junetion, in Kentucky, a post-office of Barren co.

Glassew, Port. See Port Glassow.

Glassew, Port. See Port Glassow.

Glassew'im, a village and parish of Ireland, in Leinster, about 3 m. N. W. of the city of Dublin. Pop. of parish (1885) 1,580.

Glassew'im, in lonca, a village of Dubuque co., about 25 m. W.N.W. of Dubuque.

Glasse, John, founder of the religious sect of Glassites in Scotland, a. in Fifeshire, 1695; p. 1773. See Glassites.

Glass, n. G. R.: glazs; L. Ger., D., G., Swed., and Icel., glas; O. Ger. glaz. The A.S. is from glizian, and the O. Ger. from glizan, to glisten. The old Germans called amber glaz or glet, and the word seems akin to Lat. glacie, ice. See Glacura.] A hard, brittle, transparent substance, a compound of silica and an alkali. (See below, & Chem., Manuf., Hist.)

—Anything made of glass; as, a small drinking vessel; a drinking glass; a tumbler; as, a wine-glass.

"Like a plass did break!' th' risctng."— Shaks.

"Like a glass did break i' th' rincing." - Shaks.

A mirror; a looking-glass; a reflector.

"The class of fashion, and the mould of form." - Shake.

-A vessel to be filled with sand, for measuring time; a hour-glass; hence, by analogy, the destined time o man's life.

" She would not live the running of one glass." - Shake

A telescope; a spy-glass; a lens.

ng . . . through optic glass the Tuscan artist views."

Million.

-A barometer; a weather-glass; as, the plass is rising. Digitized by GOOGIG

-pl. Spectacles; aids to the eyesight; as, the old lady

wore glusses.

The quantity of liquor that a glass vessel contains; as a glass of water.

(Chem.) The substance known as glass is, when chem the wantidated a water warish a company of The distance of the control of t a glass of water.

(Chem.) The substance known as glass is, when chemically considered, a very variable compound. The different qualities, however, agree in one particular; they belong to the class called insoluble saits, and have all one acid in common, namely silicic acid. This last substance, usually simply called silex, is found in nature in the form of quarts, either crystallized or amorphous, as fint and as fine sand. In the last form it is naturally derived from the disintegration of granite and other rocks containing quarts, in which, by atmospheric indinences and the prolonged solvent and mechanical action of water, the other ingredients have been washed away, and the more indestructible quarts particles are left behind. This quarts possesses all the chemical properties of an acid. It combines, like all other acids, with bases such as potash, soda, lime, magnesis, baryta, oxide of lead, and of all other metals, and forms a series of substances which, according to the adopted nomenclature, are called silicates, in the same manner as the compounds of sulphuric and nitrates. As all compounds of this class are called salts, the silicates are, when chemically considered, as well salts as the sulphates. The distinction is of a physical and not of a chemical mature; the silicic acid, being liquefiable not by water but by heat, communicates this quality to all its salts with a few exceptions; and its compounds are therefore, as a rule, as insoluble as the nitrates are soluble. There are two other acids, boracic and phosphoric, which also form a large number of insoluble salts called borates and phosphates; and the chemist therefore recognises also a borax or a phosphate glass; but in common language, the name of glass is exclusively applied salts with a few exceptions; and its compounds are therefore, as a rule, as insoluble as the nitrates are soluble. There are two other acids, boracic and phosphoric, which also form a large number of insoluble salts called borates and phosphates; and the chemist therefore recognises also a borax or a phosphate glass; but in common language, the name of glass is exclusively applied to the silicates. G. made with quarts and soda alone is of a brilliant lustre, and easily fusible; but it has a bluish-green thit, and does not completely resist the action of sun and rain, which, in the course of time, tarnishes its brilliant, smooth surface. G. made with quarts and lime alone is much harder, not so easily fusible, and perfectly colorless; it resists the action of sun and rain better. The combination of the two has been found by experience to possess great advantages over either of them alone, except for special purposes. Potash is sunally added to promote the fusibility and coloriese transparency of the compound, as the silicate of potash is still more fusible than that of sods, and is perfectly colorless. However, as it does not possess the brilliancy or lustre of the soda-glass, the quantity added must not be too large, as in that case the beauty of the product is impaired. Common veindose-G. is composed of silica 69 parts, soda 13 parts, lime 13 parts, with a little alumins. Plate-G. contains 74 parts silica, 12 parts soda, 55 parts plassi. Crosm-G., for optical purposes, has no suda, as that imparts to it a greenish tinge, but contains 62 parts spitial, 12 of lime, and 22 of potash. Plint-G. is a double silicate of potash and oxide of lead, containing silica 52 parts, potash 13-67 parts, oxide of lead, 32-28 parts. The oxide of lead increases its brilliancy and ustre. Baryta increases its fusibility, and oxide of sinc also increases its brilliancy and refracting power. Boracic acid is also sometimes substituted for a portion of the since and in the purposes, and in optical instruments. The celebrate Bohemian G.,

and by successive heatings and blowings it is fashioned as desired. Window G, is made in two ways: One is to blow a large globe of glass, which by re-heating and



Fig. 1164. - EGYPTIAN GLASS-BLOWERS

Fig. 1164. — EGYPTIAN GLASS-BLOWERS.
twirling is flattened into a disc of uniform thickness. This is called Crown-G. The other is to blow a long cylinder of uniform diameter, which is then trimmed at the ends, cut open lengthwise with a diamond, heated and opened on a table into a flat sheet. Bottles, &c., having irregular shapes and ornamental figures, letters, &c., are introduced while soft into moulds, and expanded by blowing. All G. requires to be carefully annealed, otherwise it is liable to fly to pieces upon the slightest touch of any substance hard enough to scratch its surface. When melted buttle-G is drupped into water so as to form pear-shaped drops, the instant a portion of the small end is bruken off they crumble into a fine powder. This probably arises from the unequal tension of the layers caused by the sudden cooling of the outside, while the inside of the mass is still hot. They form the well-known philosophical toy called Prince Rupert's drops. Many attempts have been made, and time spent in efforts to discover a mulacable G. M. de la Bastte claimed to have discovered a method of rendering glass durable, which he termed verre trempt, or tempered G. It was done by means of a beth of melted way rest

the well-known philosophical toy called Prince Repert's drops. Many attempts have been made, and time spent in efforts to discover a muleable G. M. de la Bastic claimed to have discovered a method of rendering glass durable, which he termed verre trempé, or tempered G. It was done by means of a bath of melted wax, resin, and oils. This glass is very hard on the surface, and will stand much rough usage, but it is not uniform, and has come little into use. It cannot be cut with the diamond for window glass purposes.

G. Etching on. The art of producing designs upon glass, by the corrosive power of hydro-fluoric acid. In order to effect this operation, the glass is covered with a thin ground of bees-wax; the design is then drawn upon it with the needle, as in etching upon copper. Sulphuric acid is afterwards poured on, and fluor spar or fluoric acid sprinkled on it. The hydro-fluoric acid, which is disengaged, acts powerfully upon the exposed portion of the glass, while fumes of fluo-slitcic acid are liberated. After four or five hours the acid is removed, and the bee-wax removed from the glass with oil of turpentine. The glass is then found to be etched with the design required. The operation may be reversed by drawing the design upon the glass with a mixture of bee-wax and turpentine, and then subjecting it to the action of hydro-fluoric acid.

(Hist.) Nothing is known, with certainty, concerning the invention of glass, which dates from the earliest antiquity. The oldest specimens are Egyptian, and we possess specimens of opaque glass bearing the name of the quench hatsus of the 18th dynasty, 1445 s. c. Transparent glass does not appear earlier in Egypt than the 26th dynasty, about 760 s. c, when bottles were made of it. Under the Pharaohs, Egyptian glass seems to have been extensively exported to Greece and Italy, and its reputation still continued under the Ptolemies, when the furnaces of Alexandria produced glass vases of numberless shapes and considerable size. Egypt still retained the preminence in the manu facture. The glass-making art in Italy does not date earlier than the commencement of the Roman empire; and window-glass does not appear till about the 3d cent, A. D., the houses at Herculaneum, destroyed in the reign

of Titus, being glazed with talc, and some doubt remaining as to the use of glass for this purpose at Pompeli. Lactantius, in the 3d cent. a. b., and 8t. Jerome, 422 a. b., mention glass windows. Under the Romans, colored as well as white glass was extensively used. Most of the precious stones were successfully imitated in glass pasts, but the most remarkable works in glass are the caree vases, of which one of the most celebrated is the Portland vase (Fig. 1165) in the Brit. Museum, a two-handled vessel about 10 inches high.

about 10 inches high, of transparent darkblue glass, coated with a layer of opaque white glass, which has been treated as a cameo, the treated as a cameo, the white coating having been cut down, so as to give on each side groups of figures delicately executed in relief. The subject is the marriage of Peleus and Thetes, and the urn held the ashes of the treater of the formation of a member of the im-perial family of Severus Alexander, who died 221–235 A.D. The Romans knew the use of soda and lead as fluxes for glass, and made both crown- and flint-glass.



Fig. 1165. - PORTLAND VASE

died 221-235 a. D. The Romans knew the use of soda and lead as fluxes for glass, and made both crown- and filmt glass. They made most of the fancy varieties now in use, and were acquainted with the art of coloring it blue by cobait, green by copper, rose or ruby by gold. But the great site of the 6-manufacturing of the Dark and Middle Ages was Yesies, whittier it was transplanted on the foundation of that city in the 7th century A.D. The Venetian art, however, dates its improvements from the beginning of the 13th century only. and in 1291 the establishments were removed to the island of Murano, the manufacturers forming a guild with a libro d'oro, or register of nobility, and the secret kept with the greatest jealousy. In 1236, their colory-glass came into note, and continued so till the close of the century; and in the 16th century, lesplaterens and mirrors were introduced. In the 15th and 16th centuries, plain glass with nice ornaments gilt and enamelled; in the 16th, crackled lace and retirulated glass, vitrodi trino; and in the 17th cent, variegated or mart-led glasses were produced. The Venetian glass engaged for a long time the monopoly of commerce, their mirrors, goblest, and cups being exported all over the world, but it has been superseded by manufactures of England and Germany. The forms of the Venetian G. reflected its Oriental origin, and the earlier G. of other countries of Europe in their turn show the derivation of their art from Venice. In Germany, the oldest glass (which was filit) dates from the 16th cent., and consists of goblets and tanknets of wine color, enamelled with colored coats-of-arms and other devices, milleflori, and schmeltz glass. Engraved glass was first introduced by Caspar Lehmann at Prague, in 1608, under imperial pretection, and continued by his pupil G. Schwahard; and ruby glass by Kunckel in 1679. Glass is said to have been manufacture, for making large plates by casting the domaina, and a common kind was made in Dauphiné and Provence. Cast plate is also said to have been They made most of

men going to Glassboro in the same State. From the small factory founded then at that place has grown one of the greatest G. industries in this country. A small plant was established at Fredericton, Md, in 1794, which Congress refused to subsidize, but which has grown and forms the basis of the Maryland G. product of to-day. Albert Gallatin began making G. at New Geneva, on the Monongahela river, in 1797, and others started the industry at Pittsburg in the same year. During the 19th century the industry grew apace, there being in 1890 294 establishments, with a capital of \$40,956,850, and a product for that year of \$40,051,004. The first plate G. factory was established at Cheshire, Mass, about 1853, and was afterward removed to Lenox, in the same county. This industry, like other branches of G. manufacturing, has now assumed important dimensions in the U. S. In G. production the States in 1890 ranked as follows; Pennsylvania, \$17,179,137; Ohlo, \$5,640,182; New York, 22,723,109, and other States in diminishing proportion. The total G. product of the U. S. in 1893 was valued at \$47,650,000, of which \$7,600,000 was plate G. In 1825 our exports of G. were \$44,500; in 1895, \$846,381.

G. Putsating. The art of painting designs upon glass, they stated as cooledes with a substance consisting states and a substance of the such such as substants.

G. Printing. The art of painting designs upon glass, ther stained or colorless, with substances consisting sually of metallic oxides combined with a vitreous vesmally of metallic oxides combined with a vitreous vehicle. When subjected to a great heat, the colors thus applied become permanently united with the surface of the glass. Painted-glass differs materially from steined glass, although the terms are considered synonymous. In stained-glass, however, the substance of the glass itself has been colored in the process of manufacture. The art of making colored glass has been long known. It was introduced into Greece and Rome from Assyriand Egypt. Byzantine Greeks appear to have been the first persons who practised painting upon glass, and from Byzantium the art passed into the West of Europe, by way of Venice and Marseilles. In France, the art of glass painting was practised with great success during the 12th century. After that time painted-glass windows were regarded as essential in religious edifices of any pretension. Painted windows of the 13th century abound in France, Germany, and England, and belong nsual hicle. pretension. Painted windows of the 13th century abound in France, Germany, and England, and belong to the First Pointed, or Early English, style of architecture. The painted-glass of the 14th century was more vivid in color, with greater breadth in style, and more careful painting than that of the preceding century. It was, however, less pure in conception, and not so strictly subordinate to the architectural effects. In the glass-painting of the 15th centure a complete of the 15th centure and the 15th centure and the 15th centure and the 15th centure and 15th so strictly subordinate to the architectural effects. In the giase-painting of the 15th century a great change took place. The windows became more individualized, and still less dependent upon the architecture. The designs were larger, and began to be treated as pictures. After the 15th century, when Gothic architecture was declining, the mediseval spirit departed from the art of sainting on glass, and palaces and domestic buildings began to be ornamented with the painted-glass windows, as well as churches. Glass began to be treated as if it were canvas or panel, and the works of Rafaelle and other celebrated artists were either copied or imitated. The results were not good. From that period, glasspainting declined more and more, and until within late years, has never shown any symptoms of revival. The painting declined more and more, and until within late years, has never shown any symptoms of revival. The method by which glass-painting is now practised differs in different places; but the general plan is as follows, for a small work on a single plate of ghass:—A careful cartoon, the size of the painting, having been procured, the glass is laid on it, a tracing made from it, and the outline is carefully traced on the glass, with black or brown, composed of a very fusible vitreous flux, colored with a metallic oxide, and ground extremely fine in an essential oil. Those parts which are intended to be yellow, orange, or red, are then coated according to the tint required, with a mixture composed of an alloy of silver and antimony, ground up with the red oxide which is obtained by subjecting sulphate of iron to a which is obtained by subjecting sulphate of iron to a red heat. The glass is then exposed in a furnace to a red heat, in which the tracing color is fused, and adheres permanently to the glass. The mixture of silver and permanently to the glass. The mixture of silver and antimony colors the glass, but does not melt; so that the oxide of iron may be brushed off in the state of dry the oxide of i on may be brushed off in the state of dry powder, leaving the glass colored, but transparent. The other tints, composed of very fusible glass, colored with metallic oxides, are then added, and the whole once more exposed to heat. In most cases, the glass is heated, or "fired," as it is called, between the application of each color. In making a painted window, many pieces of glass are fixed together in a leaden framework, great care being taken to arrange the several compartments from the cartoon. The great seats of this art are now in Municii, Nuremberg, Paris, Birmingham, and Edinburgh.

G. Solable. When 8 parts of dry carbonate of soda, or 10 parts of carbonate of potash are fused with 15 parts of pure quartz, a glass is obtained which is soluble in 6 parts of boiling water. It has been used to diminish the combustibility of wood and woven fabrics, especially of theatrical scenery; as a warnish to preserve some building stones; in freeco-painting, and in the place of rosin in the manufacture of soap.

rosin in the manufacture of soap.

G. coloring. G. is colored by various metallic oxides which it dissolves in small quantities. When it is colored which it dissolves in small quantities. When it is colored throughout the mass, it is called pot-metal; and when the colored material is put on as a superficial coating, it is called fashed G. Gold with oxide of tin gives a ruby-red color: oxides of silver and antimony give yellow; protoxide of iron gives green, but the sequioxide gives no color when in small quantities. By adding the black no color when in small quantities. By adding the black oxide of manganese to G. colored by the protoxide of iron, a sesquioxide of iron is formed, and the color reliance of manganese gives various tints of lians of Antimony, s. A red-colored, transparent

violet or black if used in excess; protoxide of copper gives a rich green, and the dioxide a ruby-red. The glittering appearance of aventurine, q. v., is due to the dissemination of minute crystals of copper through the glass. Cobalt gives beautiful blue colors; oxide of chromium, emerald, green, or red, depending on the state of oxidation; oxide of uranium an opalescent green; and oxide of tin gives varieties of opalescent G., and when about 10 per cent. of it are present it forms a white enamel. Arsenious acid renders G. translucent and of a pale bluish-white color, with a reddish hue when viewed with critain lights.

G. cutting. The kind of glass mostly used for ornamental cutting is flint-glass. It is cut by means of wheels, of different sizes and materials, turned by a treadle, as in a common lathe; some are made of fine sandstone, some of iron, others of tin or copper; the edges of some are square, some round, and some are sharp. They are used with sand and water, or emery and water, but stone wheels are used with water only. The glasscutter also uses rods of copper, with knobs at their

wheels, or irreadle, as in a commonant of some are square, some round, and some of some are square, some round, and some of some are square, some round, and water, or emery water, but stone wheels are used with water only. The glass-cutter also uses rods of copper, with knobe at their ends, for making round indentations; these turn on their axis, so that the end cuts a round hollow in the glass. The work is at first cut roughly, afterwards samoothed off with the sandstone or tin wheel—the latter has to be smeared with emery and water—and finally polished by a wooden wheel, with finely powdered pumice-stone applied to its edge, and moistened with water. The glass for spectacles and optical instruments are cut by concave or convex moulds of brass, moistened with energy and water, and polished by manner of a mould of pitch, wetted with crocus and water. Great art and accuracy are required to grind the glasses of political instruments, especially very large or very small cnes, as for mi-roscopes, the various "powers" of which constitute their chief expense—one the six of which water of the most manufactured.

Glass'tonbury, in Connecticut, a post-town of Hartford, which is the nearest railroad station. Pop. of township (1897) about 3,590.

Glass'tonbury, in Vorseol, a small town of English the most magnificent and wealthy about of which was hanged about \$400.

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for optical instruments, especially very large of very small cnes, as for mi roscopes, the various "powers" of which constitute their chief expense—one the sixteenth of an inch in diameter costing about \$50.

G. Independent is made by burning chloride of tin in the furnace; fumes are thus produced, for which warm G. has great affinity, and which immediately produce an iridescent surface upon it. To heighten the effect, a small quantity of baryta and strontis may be used.

Glass, v. a. Vitreous; made of glass; as, a glass bottle.

Glass, v. a. To see, as in a glass. "I glass my own debility." (Sidmy.)—To represent, as in a glass or mirror.
"The Almighty's form glasses itself in tempests." — Burno.

"The Almighty's form glasses itself in tempests. " - Byron.

"The Almighty's form plasses itself in tempetts." — Byron.

—To case in glass. — To glaze; to cover with glass.

Glass'-blower, a. One who blows glass-vessels.

Glass'-blower, a. One who blows glass-vessels.

Glass'-boro, in New Jersey, a post-village of Gloucester co., on two raliroads, 19 m. S. of Canden. Has very extensive glass works. Pop. of twp. (1897) about 2,750.

Glass'-cutter, n. One whose trade it is to cut out sheets of glass to the sizes wanted for window-panes, &c. Glasse'-faced, a. Having a face like a mirror, i. e., trying to reflect, as in a mirror, on one's countenance, the sentiments of joy, sorrow, &c., entertained by another.

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"A glass-faced, a. Having a face like a mirror, i. e., trying to reflect, as in a mirror, on one's countenance, the sentiments of joy, sorrow, &c., one face like a mirror, i. e., trying to reflect, as in a mirror, i. e., trying to reflect, as in a mirror, i. e., trying to reflect, as in a mirror, i. e., trying to reflect, as in a mirror, i. e., trying to reflect, i.

Glass'-furnace, n. A furnace in which the materials of which glass is composed are melted.
Glass Grail, n. The scum which floats upon the surface of the fused materials used in the manufacture of glass. It consists chiefly of sulphate of soda and chloride of sodium. It is also called Sandiver.
Glass'-grainder, n. One whose trade it is to polish and grind glass.
Glass'-house, n. A house where glass is made; a manufactory of glass.

manufactory of glass.

—A house made of glass.

Glass'sly, adv. In a glassy manner.
Glass'slness, n. Quality of being glassy or smooth; a

vitreous appearance.

Glass'simess, n. Quality of being glassy or smooth; a vitreous appearance.

Glass'ites, n. pl. (Eccl. Hist.) A religious sect, which apprang up in Scotland about the year 1729, and was so called after its founder, the Rev. John Glass, who was originally a minister of the Church of Scotland, but was deposed by the General Assembly for holding opinions contrary to the standards of the Church. He fully explained his opinions in a tract, entitled "The Testimony of the King of Martyrs concerning his Kingdom." He was opposed to all national establishments for the support of religion, and advocated a system of independent church government. In fact, his views on this subject approached very nearly those maintained by the Congregationalists. One of his principal disciples was Robert Sandeman, who formed a congregation in London in 1702, and after him this sect in England bears the name of Sandemanians. The leading tenets of the Glassites, or Sandemanians, relate to the efficacy of the atonement and the nature of faith. They hold that "the bare death of Christ, without a deed or thought on the part of man, is sufficient to present the chief of sinners bare death of Christ, without a deed or thought on the part of man, is sufficient to present the chief of sinners spotless before God;" and that "faith is no more than a simple assent to the divine testimony, passively received by the understanding." They maintain the necessity of a plurality of bishops, or teaching elders, in each church, but do not consider the want of learning, or employment in worldly business, any disqualification for this office. They also observe certain peculiar practices, supposed by them to have been prevalent among the primitive Christians; such as weekly sacraments.

glass, formed when tersuipning or anumous is the open air. Its composition is 8 parts of the teroxide and 1 part of the tersuiphide of antimony.

And 1 part of the tersuiphide of antimony. lass, formed when tersulphide of antimony is fused in

and I part of the tersulphide of antimony.

Glass'-painting, n. (Art.). See Glass.

Glass'-painting, n. It is made by powdering glass more or less finely, and aprinkling it over paper or calico, stip wot with a coat of thin glue: the powdered glass at heres as it dries. Glass paper is very extensively employed as a means for polishing metal and wood-work.

Glass'-snake, s. (Zoll.) The name of a snake-shaped lisard, the only representation in N. America of the genus Ophizaurus, family Chalcide. It is 20 to 40 inches long, the body and tail above yellowish green, spotted with black, and the under surface yellow. It is comnon in the S. and W. States, inhabits dry places, and spenis much of the time in the ground. The vertebres of the tail are so easily separated, that it is broken by a very slight blow; and to this fragility it owes its popular name.

Hartford, which is the newest railroad station. Pop. of township (1897) about 3,590.

Glass'tombury, in Vermont, a township of Bennington co.

Glasstombury, (glas-ton-ber're.) a small town of England, in Somervetahire, 25 m. 8.W. of the city of Bath. It was the seat of the most magnificent and wealthy abbey in England, the last abbot of which was hanged for refusing to surrender it to Henry VIII. Its ruins are still extensive. Pop. of town, 3,500.

Glasts, a town of Prussia, prov. Silesia, and a fortress of the second rank, is situated between two fortified hills, on the left bank of the Neisse, 52 m. 8.8 W. of Breslau. It has four Catholic churches. Mannyl. Linen, damask, and woollen fabrics, leather, and rose-garlands. During the Thirty Years' and the Seven Years' Wars, G. was frequently besieged and taken, and therefore has some historical interest. Pop. (1895) 13,880.

Glassbert, Johann Rodolph, (glöber.) a German chemist and physician of the 16th cent., who settled finally, after much travel, in Holland. Being strongly addicted to alchemy, he occupied himself with the search for the universal panacea and the philosopher's stone, and during his experiments, made some important discoveries, among others, that of Glanber's sulta, q. v. D. 1688.

Glass'berite, n. [From Glaurer, q. v.] (Min.) A sulphate of soda and lime. It occurs in oblique crystals, nearly transparent, and yellowish-gray in color, sometimes brick-red. Lustre, vitreous. Taste, slightly saline. Comp. Sulph. soda 511, sulph. line 489. It is found in crystals in rock salt at Villa Rubia, Spain, at the salt mines of Vic in France, and at Borraz Lake, Cal. Glam'ber's Salt, n. (Chem.) Sulphate of soda. This salt was discovered by Glauber, q. v., who called it sal mirabile. It crystallizes in long, 4-sided translucent prisms, which, on exposure to the air, lose water, and are resolved into a white powder. It is prepared in great quantities by the action of sulphuric acid on common salt, or, if wanted pure, by adding dilute sulphuric acid to a solutio acid to a solution of carbonate of soda. It has a cooling, slightly bitter taste, and is a good purgative. Formula. Na<sub>2</sub>SO<sub>4</sub>+10H<sub>2</sub>O. It exists in some mineral springs, as at Chellenham and Carlbad. As a native product, see Mirashitte, Thenarbite, and Glauberite. Glauce. (glaw'se.) (Myth.) A daughter of Cychraus, and wife of Actaus.—Another G. was the daughter of Creon, and married Jason.

Glauces'cent, Glauc'sine, a. [Lat. glaucescent, pp. of clausers; pp. of clausers; pp. of clausers.

Glauces'cent. Glau'eine, a. [Lat. glaucescan, pp. of glaucescere, incept. from glaucere, from glauces, busish-gray; Gr. glaukos.] Having something of a bluish-gray, or hoary appearance.

Glauchau. (glau'ohoe.) a thriving and important manufacturing town of Prussia, in Suxony, on the right bank of the Mulde, 8 m. N.N.E. of Zwickan. Manuf. Woollen and linen cloths, and leather; there are also extensive print-fields and dye-works. Pop 21,400.

Glau'cine, n. (Chem.) A crystalline alkaloid found in the leaves of the Glaucium luteum.

Glau'cium, n. (Bot.) The Horn-popy, a genus of plants, order Papaceracez. The species chiefly native of Europe abound with copper-colored acrid juice, said

piants, order rupaperacez. Ine species chieff native of Europe abound with copper-colored acrid juice, said to be poisonous, and to cause madness.

Glau codot, n. (Min.) A mineral of a metallic lustre, grayish tin-white color, found with cobaltite in Chili. Sp. gr. 5-975-0. Comp. Sulphur 19-4, arsenic 45-5, cobalt 23-8, iron 11-3.

balt 23'8, iron 11'3.
Glau'collte, n. [Gr. glaukos, greenish-gray or seagreen.] A silicate of alumina, lime and potash from near Lake Balkal, Siberia. Comp. Silica 48'4, alumina 28'5, lime 18'1, soda 5'0. It is a variety of Wernerite, q. v.

25°5, time 18°1, soda 5°0. It is a variety of wernerite, 9. °C.

| Inneo'ma, n. | Fr. glaucome; Lat. and Gr. glaucoma, from Gr. glaukorm, to make grayish, from glaukos, bluish-gray.] (Med.). An opacity of the vitreous humor of the eye, characterized by a bluish tint seen from without, and the absence of the peculiar characters of

cataract (q, v), which, in some respects, it resembles as regards the gradual obscuration of vision. It is an dmost incurable disease

Glaucom'atous, a. Having the nature of, or per

taining to glaucoma. Glau comits, n. [So called from its green color. (Min.) A constituent of the green and formation; also found in the cavities in cruptive rocks. It is amorphous

(Min.) A constituent of the green sand formation; also found in the cavities in eruptive rocks. It is amorphous, resembling earthy chlorite. Lustre dull, or glistening. Color different shades of green; opaque. Sp. gr. 2-2-2-4. Cmp. Silica 49-3, alumina 3-6, seequioxide of iron 22-7, protoxide of iron 6-3, potash 8-3, water 9-6. The glaucerite grains are often casts of the shells of Shizopods. The earthy variety is used as a pigment.

Siaucopie'sime, n. [Gr. glaukos, aure, pikros, bitter.] (Chem.) An alkaloid found with glaucine it the Glaucium luteum.

Biauco'pis, n. [Gr. glaukos, sea-green, and õps, the countenance or eye.] (Zol.) See Wattle-Biro. Glauco'sis, n. Same as Glaucoma, q. v. Glauco'sis, n. Same as Glaucoma, q. v. Glauco'sis, n. See above. Bluish-green; of a sea-green color; of a dull-green passing into grayish-blue. (Bol.) Covered with a whitish bloom, which rube off, as the surface of a cabbage-leaf or of a plum, or so whitened as to appear to have a bloom.

Clauc'aus. (Myth.) A fisherman of Authedon in Bosotia, a son of Neptune, or according to others, of Polybius, the son of Mercury, and the nymph Nais, said to have built the ship Argo, and to have accompanied the Argonautic expedition as pilot, but during one of the fights, in which the Argonauts were engaged. According to others, G. while fishing, noticed that the fish which he laid on the grass received fresh vigor as they touched the ground, and immediately leaped into the sea. Having himself touched the grass, he felt a desire to inhabit the sea, and leaping into it, was made a sea-delty by Oceanus and Tethra, who bestowed on him the gift of prophecy, in which he excelled so much that even Apollo became his pupil. Much is related in mythology of his amours, among the objects of which, are mentioned Arisadne, Scylla, and Hydne, daughter of Scyllus the diver. He is represented with a long heard, diof his amours, among the objects of which, are men-tioned Ariadne, Scylla, and Hydne, daughter of Scyllus stoned Arisane, Scylia, and riyune, daugnter of Scylius the diver. He is represented with a long heard, di-shevelled hair, shaggy cyclrows, and the tail of a flah. Another G. was son of Hippolochus and grandson of Bellerophon. He assisted Priam in the Trojan war, and Betterophon. He assisted Priam in the Trojan war, and was foolish enough to exchange his golden armor for the iron suit of Diomed, whence the proverb, "Glauci et Diomeds permutatio," said of any foolish purchase. He displayed much courage, but was killed by Ajax. A third G. was son of Sisyphus, king of Corinth, by Merope, daughter of Atlas, and s. at Potnia, Bosotia. Desiring rope, daughter of Atlas, and B. at Potnia, Bosotia. Desiring to make his mares swifter than others, for the purpose of vexing Venus, the latter inspired the animals with such fury that they tore G. to pieces as he returned from the games which had been celebrated by Adrastus in honor of his father. — A fourth G. was son of Minos II., and Pasiphas, was smothered in a cask of honey, and miraculously brought to life, by an herb sent by Polyidna, the soothsayer.

Glam'cus, s. (Zoil.) A genus of molluses classed with the Gusteropoda, but having no distinct respiratory organs. The species remarkable for their beautiful azure tint, are found in the warmer latitudes floating in the

tint, are found in the warmer latitudes floating in the

open sea.

Glaux, n. [Gr. glaukos, sea-green.] (Bot.) A genus of plants, order Primulaces, having a 5-lobed calyx, no corolla, and a 5-valved capsule, with about five seeds. G. marituma, sometimes called Sa Milk-wort and Black Sall-wort, is one of the most common plants of our sea-coasts, growing in almost every muddy situation. It is a small plant, with branching stems, often procumbent, and small fleshy leaves. It makes a more liefs the

a small plant, with branching stems, often procument, and small fleshy leaves. It makes a good pickle.

Glay'smore, n. Same as CLAYMORS, q. v.

Glass, or windows of glass; to crust with a vitreous substance, as earthenware.—To cover with anything smooth or shining; to render the exterior of a thing bright, smooth, and showy; to polish; to make smooth and gloss.

and glossy.
"We paint that which we intend to glass."

—n. A vitreous coating, as of earthenware; glazing.

Glazed, p. a. Furnished with glass-windows.—Incrusted with a substance resembling glass.—Rendered

smooth, shining, or polished.

Gla'zer, n. A workman who applies the glaze to earthenware, &c.—An instrument for smoothing cloth. enware, &c.—An instrument for smoothing cloth, paper, &c.; a calender.—A wheel, the outer circumference or tiring of which is coated with emery, or any other substance fitted for the purpose, and used to polish cutlery by rapid friction.

other substance fitted for the purpose, and used to polish cutlerly by rapid friction.

Glassler, n. [From Glass, v. a.] One whose business is to set window-glass.

Glasslang, n. Act or art of setting glass; the art of crusting with a vitreous substance; the act of polishing or of giving a smooth, shining, glossy surface to.—The vitreous matter with which potter's ware is encrusted; also applied to prorelain paper. Ac.—Any factitions also applied to porcelain, paper, &c. — Any factitious, shining exterior. — Act of furnishing or covering with shining exterior. — glass, as houses, &c.

(Painting.) A term applied to the finishing of a drawing with some thin, transparent, and glossy tint, through which the first colors appear, and are height-

ened in their effect.

ened in their effect.

(Arts.) In glazing earthenware, the ingredients that are used consist of red lead, white lead, felspar, ground flints, ground flints, Cornish stone, and clay, soda, nitre, and borax. Various compositions are made for glazing, by mingling some of these substances together. glazing, by mingling some of these successions when in different proportions, according to the nature of the material which is to be coated, and the purpose for

which the article is intended. Thus, in the glass for common earthenware, white lead and ground flints predominate; in that for porcelain, felspar, borax, nitre, soda, Cornish clay, and sand, are used; and for stoneware, red lead, white lead, and ground flints are ningled with the control of the standard of the control of the standard of the standa ware, red lead, white lead, and ground linus are inligited with the ingredients used for porcelain. For liuing chemical retorts, sand, potash, lime, and nitre are used, without any admixture of lead. The substances of which these glaxes are composed are mixed with water, until they assume the consistency of cream. When the mixture is perfectly ready for use, the ware is dipped into it, and afterwards subjected to the action of heat in an and afterwards subjected to the action of heat in an oven, which converts the liquid coating into a solid vitreous glaze. Metal-glazing is the production of a brilliant polish on cuttery and steel goods, as well as articles made of brass, tortoise-shell, horn, ivory, and white metals, by means of wooden wheels from ½ inch to four inches in width, and from four inches to two feet in diameter, the edges of which are covered with leather coated with emery-powder moistened with water. Other wheels are also used in polishing, coated with thick buff-leather, which is covered with a mixture of flue send and water or rottenstone and coll according thick buff-leather, which is covered with a mixture of fine sand and water, or rotten-stone and oil, according to the nature of the material which requires to be polished. The final polish is given with a wheel, the leather covering of which is sprinkled with crocus or metallic powder, in a dry state. Stones are polished by lapidaries in a similar manner, with wooden wheels, which have emery spread on their edges. In window-glazing, the glass is cut to the required size with a glazier's diamond, and fastened to the sash-bars with a glazier's diamond, and fastened to the sash-bars with a mixture of whiting and linseed oil, called putty, which hardens after having been exposed to the air for a few days, and retains the glass in its proper position.

\*\*Aleand.\*\*n. [A.S. glazm. a glittering, from leoma, a ray of light, allied to Lat. lumen, for lucmen, from luc, root of lux, light.] A beam; a ray; a small shoot or stream of light.

GLED

of light. "A gleam of dawning light." — Mill

Brightness; splendor.

"Dreadful glooms, fires that glow."-Pope.

v. s. To shoot or dart, as rays of light. To shine; to cast light; to flash; to spread a flood of

(Fulconry.) To discharge filth; to void excrements as a hawk

Gleam'ing, s. A shoot, or shooting of light; a corus

cation.

Gleanny, a. Darting beams of light; casting light in "A cleany ray."—Pope.

Gleamy, a. Darting beams of light; casting light in rays; corruscating. "A gleamy ray."—Pope. Gleam, v. a. [Fr. glaner, from glane, a handful of ears of corn; L. Lat. glanare, glenare, from granum, a grain.] To gather the stalks and ears of corn which reaper leave behind them; to collect things thinly scattered. as the grain left by a reaper; as, to glean the field. — To gather laboriously and by slow degrees; as to glean facts.

Content to clean what we can from experiment. v. n. To gather stalks, or ears of grain left by respers n. A collection made by gleaning, or by gathering here and there a little.

"The gleene of yellow thyme distend his thighs."—Dryden.

Gleam'er, n. One who gathers after reapers.

Oue who gathers anything slowly and laboriously; as, ue who gathers eaner of facts.

gleaner of facts.

Glean'ing, a. Act of gathering after respers, or gatherers, as the gleanings of grapes.—That which is collected by gleaning; as, gleanings of knowledge.

(Hist. and Law.) G. was an established practice among the second of the second of

(Hist. and Law.) G. was an established practice among the Jews, and was sanctioned by the law of Moses, who enjoins them, when they reap the harvest, not wholly to reap the corners of the field, nor gather the gleanings, which were to be left for the poor and the stranger, as were also the gleanings of the vineyard; for they were not to gather every grape. (Levit. xix. 9, 10.) In modern times there exists a very general feeling in favor of G.; and in France and England it is popularly regarded was a right which an owner or occupier cannot regarded as a right which an owner or occupier cannot oppose, and that the poor who enter a field for this purpose are not guilty of trespass. The act, however, has been decided to be illegal, though the practice still prevails of allowing the poor to glean the fields after hey are reaped. In the United States there is not, it prevails of allowing site poor, they are reaped. In the United States there is not, it is believed, any legislation on the matter.

Glebe, n. [Fr. glebe; Lat. gleba, from Gr. bölos, a clod or lump of earth, by inserting g.] Turf; soil; ground.

"The rank and mellow gleba."—Dragton.

(Eccl.) Land possessed as part of the revenue of a acclesisation) benefice

(Min.) A lump, or clod of earth containing some min

a. Having no glebe; - said either of the

eral ore.

Glebe'less, a. Having no glebe; — said either of the parson or of his manes, or benefice.

Glebos'ity, n. The quality of being turfy or cloddy.

Gle'bous, Gle'by, a. [Lat. glebosus. See SUPRA.]
Turfy; cloddy. — Belonging to a glebe. — Fruifful; fat; fertile. "O'er virtue's gleby land." — Prior.

Glecho'sma, n. (Bot.) The Linnean name of the genus NEPRA, q. v.

Gledle, n. [A.S. glidaglide, by redup. of glidan, to glide.] (Zoil.) A Scottish name for the bird Kirz, q. v.

Gledlitsch'sma, n. [After the German botanist Gleditsh, who lived in the 18th cent.] (Bal.) A genus of plants, order Philosow. They are trees, with supra-axillary, branched spines; leaves abruptly pinnate and bi-pinnate, often in the same specimen. G. triacanthus, the Honey Locust, is a fine ornamental tree, native from Penn. to Mo., and now common in cultivation. Its brauches are armed with stout, triple spines; leafets alternate, oblong-lanceolate, obtuse; legume linear-

oblong, compre In favorable ed, intervals filled with sweet purp

circum stances it attains the height of 70 feet, undivided half its length, with a diameter of 3-4 feet. The thorns, with which its branches are armed in a most formidable manner ligneous. ten having 2 secondary ones branching from the sides. Foliage light and elegant. Flowers succeeded by



Fig. 1166. — HONEY LOCUST. (Gladituchia triacanti

flat, crooked hanging pods 12-18' long, of a dull red. Seeds flat, hard, brown, imbedded in a fleshy substance, at first sweet, but

Glee, n. [A.S. glie, glio, gliv, glig, music, joke, sport; gliwian, gliowian, to jest, to sing.] Joy; merriment; mirth; gayety; particularly the mirth enjoyed at a feast.

"Farewell, my gles!
No happiness is now reserved for me."—Gop.

(Mus.) A vocal composition in three or four parts, generally consisting of more than one movement, the generally consisting of more than one movement, the subject of which, notwithstanding the received sense of the word glee, may be either gay, tender, or grave. The term was not applied to vocal concerted music until long after the madrigal. The early glees were nothing but vocal music in parts, in which the singers begun and ended together, singing the same words. Oradually, however, they became improved, and the play of worder and phrases introduced. Certain words were clongated in musical expression, and points were taken up after the manner of the catch. The style of music of the gree is peculiar to England, and quite different from the partsongs of Germany.

songs of Germany.

Glee'masn, n. Itinerant ministrels were so called by
the Anglo-Saxons; by the Latin writers of the middle
ages they are termed joculatores. The name appears to
have been supplanted by the Norman ministrels, shortly

have been supplanted by the Norman minstrets, shortly after the Conquest.
Glee'ful, a. Merry; gay; joyful.
Gleet, n. [A.S. glidan, to glide] (Med.) See Gonormega.
-v. n. To flow thinly; to cook, as the mucous discharge from the orifice of the urethra. To flow slowly, as water.

"Vapors are condensed, and so gleet down the caveras."-

Gleet'y, a. Ichorous; thinly sanious.
"If the matter change to be gleety."—Wise

Gleg, or Cleg, n. [Perhaps from Gael. cleithleag, the gad-fly.] (2001.) The horse-fly. See Gab-ray. Gleim, Wilhelm Ludwig, a poet, sometimes called the German Anacreon, B. 1719, at Ernsleten; filled the office of secretary to the chapter of Halberstadt; and B. 1803. He owes his chief fame to his war-songs, compared for the Present army.

1803. He owee his chief fame to his war-songs, composed for the Prussian army.
Gleiwitz, (gli'witz.) a manufacturing town of Prussia, in Silesia, on the Klodnitz, 43 m. S.E. from Oppela.
Manuf. Yarn, linen, glue, and leather. There is an important royal irou-foundry here. Pop. 12.000.
Glem, n. [Erre. glean; Gas.] glean; W. ylyn, a walley.]
A deep vale, through which a river or stream flows.—A narrow valley; a dale; a depression between two hills.
Glem, the name of two rivers in England; the first in Northumberland, rising in the Cheviot Hills, and joining the first in Northumberland, rising in the Second G. rises smoong the ing the Till at Fenton. — The second G. rises among the fens of Liucolpshire, and flows into Fosdyke wash fens of Liucolnshire, and nows into Foscive wash Glem, in New York, a post-town of Montgomery co. Psp. (1890) 2,648. Gennal'ta, in Georgia, a post-village of Marion co., about 23 niles S.E. of Columbus. Glem Arbor, in Michigan, a post-village and township of Leolenaw co., on Lake Michigan, about 150 miles N.

of Leelenaw co., on Lake Michigan, about 150 miles N. of Grand Rapids.
Glem Au'brey, in New York, a P. O. of Broome co. Glembeu'lalle, in Wisconsis, a post-village of Sheboygan co., about 20 miles E. of Fond du Lac.
Glem'burm, in Muisse, a post-town of Penobecot co. Pop. (1897) about 620.
Glem Campybell, in Pennsylvania, a post-village of Indiana co.

Glem Camp'bell, in remayerance, a Indiana co. Glem Castle, in New York, a post-office of Broome co. Glem Castle, in Kesskoly, a post-office of Gallatin co. Glem coe, (glen'ko,) a valley in Argyleshire, Scotland, noted for the military execution of its unsuspecting inhabitants, the Macdonalds, by a party of English soldiers, in 1692, in consequence of an order, signed by William III. in council, for that purpose, and contrary to the faith of a royal proclamation. Many of the inhabitants had been in arms for the abdicated James II. Its bed is swept by Ossian's "Bark torrent of Cona." Its bed is swept by Ossian's "Dark torrent of Cona."
There is but one solitary farmhouse within a distance
of 10 miles; and no portion of the Highlands presents a

scene of such gloomy, silent grandeur.

Glem'coe, in Illinois, a post-village of Cook co., es
Lake Michigan, abt. 19 m. N. by W. of Chicaga.

Glen'coe, in Missesota, a post-village and township, cap. of McLeod county, about 60 miles W.S.W. of St. Paul. Mans. Flour. Pop. of village (1895) 2.022.
Gleneoe, in Missessippi, a village of Bolivar co.
Gleneoe, in Missouri, a post-village of St. Louis co., about 27 miles W.S.W. of St. Louis.
Gleneoe, in Missouri, a post-village of Belmont co., about 10 miles W. of Bellaire.
Gleneoe, in Wiscourie a post-township of Buffalo co.

lu niles W. of Bellaire.

Glemeee, in Wisconsis, a post-township of Buffalo co.
Glemeee Mills, in New York, a P. O. of Columbia co.
Glem Cove, in New York, a post-village of Queens co.,
on Hempstead Harbor, on Long Island.
Glem/dalagh, a beautiful valley of Ireland, in
Wicklow, Leluster, 5 miles from Rathdrum. It is nearly

Wicklow, Leinster, 5 miles from Rathdrum. It is nearly surrounded by inaccessible mountains, and contains two lakes, and extensive ruins of the city of G, which was formerly a bishopric, with an episcopal jurisdiction, extending to the walls of Dublin.—There are several other places in Ireland prefixed with the word Gless, but of which there is nothing remarkable to record. Glendale, in Ilisoia, a post-office of Pope co. Glendale, in Indiana, a post-office of Daviess co. Glendale, in Indiana, a post-office of Jefferson co. Glendale, in Kentucky, a post-village of Hardin co., about 50 miles 8. of Louisville.
Glendale, in Massachaetts, a post-village of Berkshire co., about 50 miles 8. of Louisville.
Glendale, in Missouri, a post-office of Putnam co. Glendale, in Missouri, a post-village of Berkshire co., about 50 miles 8. of Louisville.

co.

Glemdale, in Newda, a village of Washoe co.
Glemdale, in New York, a post-office of Lewis co.
Glemdale, in Ohio, a post-village of Hamilton co., 15
miles N. of Cincinnati. Pop. (1897) about 2,000.
Glemdale, in South Carolina, a post-town of Spartan-

burg co.

Clemdale, in Wisconsis, a post-township of Monroe co., about 42 miles E. of LaCrosse.

Clemdale, or Franks Farm, in Virginia, a locality near Malvern Hills. This place was the scene of a sharp action fought June 30, 1862, between a National force under Generals McCall, Meade, and Seymour, and one of Confederates, commanded by Generals Longstreet and Hill, in which the result was decisive to neither side. The Nationals lost heavily in officers, General Meade being severely wounded, McCall captured, and several brigadiers placed hors de combat.

Clemdalough (glen-dal'wh), a lake of Ireland in Leister, co. of Wicklow, about 24 miles S. of Dublin. The vicinity is celebrated for its scenery and ruina.

ter, co. of Wicklow, about 24 miles 8. of Dublin. The vicinity is celebrated for its scenery and ruins. Glem'dom, in Penspirasis. a borough of Northampton co., about 2 miles from Easton. Pop. (1807) 1,025. Glemdower (glen-door'), or GLENDYA, OWER, a calebrated Welsh chieftain, born 1300, lineally descended from Llewellyn, last prince of Wales. During 14 years he fought against Henry IV., declaring him usurper of the English throne. Died 1415. Gleme, m. [Er. glens; Gr. gl'ns', a depression.] (Anat.) The pupil; the interior part of the eye; the eyeball; the eye; according to some, the crystalline lens. Also, a glenold cavity.

the eye: according to some, the crystalline lens. Also, a glenoid cavity.

Clemelg', a considerable river rising in the 8. W. of Victoria, and flowing through 8. Australia. It enters the Southern Ocean near Lat. 30° 8., Lon. 141° E., between Capes Northumberland and Bridgewater.

Clemelg, in Maryland, a post-office of Howard co.

Clemelge, in Maryland, a post-office of Invernesshire, called so from the river Finnan, which flows through it into Lough Shiel, and only remarkable as being the place where the Prince Charles Edward first unfurled his banner in 1746.

Clemelge and its touries a banner in 1746.

Clemelge and the Ess. of Malin Head.

Clemelge and the Ess. of Malin Head.

Clemelge and the Complete of Clemelge and township of Clemelge and township of Graut co.

Glembaven, in Nuconsia, a post-brough of Graut co.
Glem'hope, in Pransplemia, a post-brough of Clear-field co., about 120 miles W.N.W. of Harrislurg.
Glem'livet, a valley of Scotland in Banfishire, 20 miles from Huntley. It is noted for its finely flavored whisky.
Glemmalure', a mountainous region in Ireland, in Leinster, co. of Wicklow, on the Avonbeg river. It was the acuse of many outrages during the rebellion of 1798.
Glem Mills, in Pransplemia, a P.O. of Delaware co.
Glemmore, in New York, a post-will. of Oueida co.
Glemmore, in Wisconsia, a post-will. of Oueida co.
Glemm, in Michigan, a post-office of Allegan co.
Glemm, in Michigan, a post-office of Allegan co.
Glemm, in Michigan, a post-office of McKean co.
Glemm, in Found Dakota, a township of Walworth co.
Glemm'ville, in California, a post-office of McKean co.
Glemm'ville, in California, a post-office of Spartanshurg co., about 85 miles N.W. of Columbia,
Glemm'ville, in California, a post-office of Kern co.
Glem'ville, in California, a post-office of Kern co.

lates with the head of the humerus is called the glenoid curity of the scapula or blade-hone. The same term is also applied to the surface which receives the articular head of the lower jaw.

len Rock, in Perasicania, a P. O. of Delaware co. len Rock, in Perasicania, a post-village of York.

Co., about 15 m. S. of York.

Gild'ingly, adv. In a smooth or gliding manner.

Gildi'angly, adv. In a smooth or gliding manner.

Glen Rid'dle, in Pennsylvania, a P. O. of Delaware co.

Glen Rock, in Nobraska, a post-office of Nemaha co.
Glen Rock, in Nobraska, a post-office of Nemaha co.
Glen Rock, in Nobraska, a post-office of Nemaha co.
Glen Rock, in Nobraska, a post-office of Nemaha co.
Glen Rock, in Nobraska, a post-office of Chester co.
Glens Poy (now Line Spring) in Iowa, a post-village
of Howard co. Pop. (1895) 551.
Glenroy', in Pennaylcania, a post-office of Chester co.
Glens Falls, in Nobraska, an important manufacturing town of Warren co., on Hudson river, 59 miles N.
of Albany. Has also extensive mines of marble and
limestone. Pop. (1897) alout 10,000.
Glen's Fork, in Kentucky, a post-office of Adair co.
Glen's Hork. in Kentucky, a post-office of Norder, and S. of the point where the counties of
Perth, Forfar, and Aberdeen meet.
Glen Union, in Pennaylcania, a P. O. of Clinton co.
Glen's Hole, in Connecticat, a post-township of Schenetady co., on the Mohawk river, about 20 miles N.W. of
Albany.
Clearwille, in West Vicainia a post-village of Fairfield
Co., about 60 miles S.W. of Hartford.

Albany.

Glenville, in West Virginia, a post-village, cap. of Gilmer co., on the Little Kanawha river, about 82 miles S. of Wheeling.

of Wheeling.

Glem Wild, in New York, a post-office of Sullivan co.

Glem'wood, in Iosta, a city, capital of Mills co., on the
C., B. & Q. R. R., 20 miles S.E. of Council Bluffs. Pop.
(1895) 2,143.

(1896) 2,143.

A township of Winneshiek co. Glemwood, in Maisse, a post-village, cap. of Pope co. Glemwood, in Minsesota, a post-village, cap. of Pope co. Glemwood, in New York, a post-village of Erie co, about 22 miles 8.E. of Buffalo.
Glemwood, in Pensylvania, a post-village of Susquehanna co, about 25 miles N. of Scranton.
Glemwood, in Virginia, a post-office of Rockbridge co. Gli'adim, s. [Gr. glice, glue.] (Chem.) A gluey subtance extracted from gluten by boiling alcohol.
Glifb, a. [Du. glibberig, slippery, from glibberen, to alide; Lat. glaber, smooth, allied to Gr. glubein, to bark or peel.]
Smooth; slippery; admitting a body to alide easily on the surface.

"The parts being glib, and continually in motion."—Burnet.

The parts being sife, and continually in motion."- Surnet.

Easily moving; voluble; flippant, as a tongue.

1. [Erse, glib, a lock of hair.] A thick, curled bush of hair hanging down over the eyes so far as nearly to disguise the countenance.

guise the countenance.

—e. a. To render smooth.—To castrate; to emasculate.

Glib'ly, ade. Smoothly; volubly; as, to stide glibly, to
speak glibly.

Glib'mess, n. Smoothness; alipperiness; volubility of
topgule.

tongue.

Glid'den, in Iowa, a post-village and township of

Carroll co.

Glid'don, George Robens, an eminent Egyptologist and archeologist, s. in Devonshire, Eng., in 1809. In early youth he was sent out to Egypt, where his father was cetablished as a merchant, and also U. States Consul at Alexandria. G. ultimately succeeded his father as American Consul, and resided for many yours in Egypt and the Levant, actively prosecuting researches in the antiquities and ethnology of those countries. About 1810 he returned to Europe, whence he came to the U. antiquities and ethnology of those countries. About 1840, he returned to Europe, whence he came to the U. States, in which country he lectured in all the principal cities on Oriental archmology. G. was subsequently appointed agent for the Honduras Inter-oceanic Railroad Company, and D. at Panama in 1867. His principal works are: Appeal to the Antiquaries of Europe on the Destruction of the Monuments of Egypt (1841); Discourses on Egyptian Archmology (8vo., London, 1841); Otia Egyptica (1849); Ancient Egypt (1 vol. 4to., London and Philadelphia, 1850; new ed., 8vo., London, 1853); Types of Mankind, or Ethnological Researches based upon the Ancient Monuments, Paintings, Sculpares, and Cranta of Races, &c., written in conjunction

based upon the Ancient Monuments, Paintings, Sculptures, and Cranta of Races, &c., written in conjunction with Dr. Nott, of Mobile, Dr. Morton, Prof. Agussis, and others (Philadelphia, 1854); and Indipenous Races of the Earth, or new Chapters of Ethnological Inquiry (Philadelphia, 1857). D. 1867.

Ghide, r. n. [A.S. phidan; Ger. gleiten, allied to glatt, smooth.] To move without noise or violence, as a river or stream.—To move silently and smoothly; to pass along without apparent effort; ns. "Ye gliding ghosts." (Dryden.)—To move or pass rapidly and with apparent case.

case.
"Shoals of fish glids under the green wave." -

To move, or slip along, with ease, as on lee or other smooth surface.

Act or manner of moving smoothly, swiftly, and with out labor or obstruction. "And with indented glides, did alip away." - Shake

(Pronunc.) The series of sounds produced by the or-(Pronnec.) The series of sounds produced by the organs of enunciation in passing from the sound of one vowel or consonant to that of another. These sounds necessarily occur in the utterance of articulate language, but each one consists of a number of changes of intonation, a single one of which is separately indistinguishable from the preceding or subsequent one; and we only prove their separate distinctness by the entire difference which their aggregation produces. It may be exemplified practically by the pronunciation of the compound noun gold-watch, in the distinction of sounds produced, and of position of organs at the close of the prior part and the beginning of the latter part of the word. Glid'er, n. One who, or that which glides.

of light.

-n. A faint light; feeble, scattered rays of light.

(Min.) Muscovy glass; Mica, q. r.

Glim'mering, n. A faint beaming of light; a faint

view.

Glimpse, n. [Dan. glimt, allied to glimmer and gleam.]

A transient glance; a short, transitory view; ss, a glimpse of glory.—A weak, faint light; a transient lustre.—Short, fleeting enjoyment; ss, "a glimpse of

lustre. — Short, fleeting enjoyment; as, "a glimpse of delight.
—v. n. To appear by short, hurried views.
—v. a. To have a short, hurried view of; to see by glimpses.
Glim'kite, n. (Min) A palegreen chrysolite from talcose schist. Occurs near Media, Pa., and at Wod's mine, Lancaster co., Pa. — See Chrysolite.
Glimt, n. [Scottish.] A glimpse; peep; hurried view; plance.

n. To glance; to peep forth.

-r. n. To glance; to peep forth.

Glires, n. pl. [Lat., pl. of glis, a dormouse.] (Zold.) The

Linnean name of the order of Mammalia, almost corresponding to the Rodentia of Cuvier. — See RODENTIA.

Glist, n. from Eng. glisten.] Same as Mica, q. v.

Glisten, (glisten.) v. n. [A. S. glismian; Ger. gleissen,
to shine; radically the same as glitter and glister.] To

shine; to glitter; to sparkle with light.

"The ladies' eyes glistened with pleasure."—Richardsen.

Glis'teming, p. a. Sparkling; emitting rays of light; as, the glistening stars, a glistening dhamond.
Glis'ter, v. s. [A. 8. glistnian; Dut. glinstren.] To shine; to be bright; to sparkle; to be brilliant.

shine; to be bright; to sparkle; to be brilliant.

"All that pitotens is not gold "—Shaks.

—n. Lustre; glitter.
Glistering, p. a. Sparkling with light.
Glitter, v. n. [A. S. gittenan; Sw. gittra, to shine.] To gleam; to shine; to sparkle with light. — To be splendid, showy, specious, or striking, and hence attractive.

—n. Brightness; brilliancy; splendor; lustre, as of arms.
Glittering, p. a. Splendid; brilliant; as, the glittering scenes of court.
Glitteringly, adv. With sparkling lustre.
Gloann, v. n. Same as Gloom, q. v.
Gloann'ing, n. [Scottish: A. S. glomung, glommung, from the root of Gloom, q. v.] The fall of the evening; twilight; dusk.

from the root of GLOOM, q. r.] The fall of the evening; twilight; dask.

Gloom, v. n. [Ger. glotzen; Sw., Goth. glotza, to pry, to peer, to peep, from root glo, to look intently.] To gaze our neatly, or with eagerness; to stare with admiration, eagerness, or desire; to gaze with any warm or burning pussion or sensation; as, to gloat upon misery, to gloat with desire, as a libertine.

Gloat'ing. p. a. Gazing with earnestness: looking

Gloat'ing, p. a. Gazing with earnestness; looking

Glost'ing, p. a. Gazing with earnestness; looking attadfastly.

Glo'bard, n. [Eng. glow, and Fr. ver, a worm.] Same as Glow-worm, q. v.

Glo'bate, Globa'ted, a. [Lat. globatus, pp. of globars, to form into a ball, from globus, a ball.] llaving the form of a ball or globe; spherical; spheroidal.

Globe, n. [Fr., from Lat. globus, akin to glowus, a ball of yarn; lieb. gholem, anything rolled together.] A sphere; a ball; a round body; a body, every portion of the surface of which is at the same distance from its centre. Such body may be either solid or hollow.

—The earth; the planet that we inhabit. In this sense it has the definite article.

"The youth whose frume the vast slobe obered."—Stepnes.

"The youth whose fortune the vast globe obeyed."-

Anything, or collection of persons or things, in the form of a globe or circle.

" Him round eraphim enclosed."—*Milto* A globe of flery serai Anything nearly spherical in shape; as, the globe of a lamp, the globe of the eye.

(Geog. and Astron.) A movable artificial ball, used in

lamp, the globe of the eye.

(Geog. and Astron.) A movable artificial ball, used in geography and astronomy, on which the most important countries, mountains, towns, rivers, &c., are represented, then called a terrestrial globe,—or the most important stars and constellations, as well as the imaginary circles of the heavens, then called a celestial globe. In either case it is used for the purpose of presenting more vividly to the mind the various actual or apparent movements of the earth and of the heavenly bodies, and assists materially in obtaining a knowledge of the stars. Ptolemy had a terrestrial globe, as appears from the Almagestus. The ancients were also acquainted with the use of the celestial globe, and it is certain that Archimedes possessed a planetarium. The two oldest globes that have come down to us are of Arabic origin. One of 1225 is preserved in the museum of Cardinal Borgia at Velletri, and the other in the mathematical asloon at Dresden. In the 16th century, Regiomontanus, Apianus, Mercator, and others paid great attention to the manufacture of such instruments. The most valued of the ancient globes are those made by Blaew at Amsterdam, and by Coronelli, a Franciscan monk, at Venice. The latter prepared, in 1683, for Louis XIV, a pair of globes, celestial and terrestrial, of 12 feet in diameter. The most famous article of the kind is the Gottorp globe, which Duke Frederick of Holsrein had made and set up at Gottorp, 1656-64, by Olearius and Buach, of Limburg. It has been at St. Petersburg since 1713. It globe, which Duke Frederick of Holstein had made and set up at Gottorp, 1656-64, by Olearius and Busch, of Limburg. It has been at St. Petersburg since 1713. It is of sheet-copper, and the stars are represented by little perforations. Now-a-days these large and costly globes are less esteemed than the smaller and more convenient ones, by means of which the same and may be attained.

About 1725, Andrek and Homan commenced at Nuremberg the manufacture of small celestial and terrestrial globes, the use of which soon became extensive in Germany. The most celebrated globes of later days are those of Lalande and Messier, 1775-80, manufactured at Paris, and the celestial globes of Rhode, of Berlin, the latter being especially commendable for their accuracy and finish. Very useful globes of different sizes, also relief-globes, are made at Leipzig, Weinnar, Berlin, and Vienna. A peculiar and colossal sort of terrestrial globe is the georama, a hollow globe, furnished with galleries, whence one sees the various countries, mountains, rivers, &c., reversed, as it were. Wylde has manufactured such a globe on the scale of 1 in. to 10 Rng. m. Geog., Pop.—According to the Royal Geographical Society, the population of the globe, in 1891, was estimated at 1,487,300,000, of which 380,20,000 are set down to Europe, 850,00,000 to Asia, 127,000,000 to Africa, About 1725, Andrez and Homan commenced at Nurem-

to Europe, 880,000,000 to Asia, 127,000,000 to Africa, 4,730,000 to Australia, 125,670,000 to America, and 300,000 to the Polar regious. The average is 29 inhabitants per

to the Polar regious. The average is 29 inhabitants per square mile.

Globe'-am'aranth, n. (Bot.) See Gompherma.
Globe'-am'mal, n. (Bot.) See Volvox.
Globe'-fish, n. Same as balloon-fish.—See Diodon.
Globe'-fish, n. Same as balloon-fish.—See Diodon.
Globe'-fiower, n. (Bot.) See Frollius.
Globese', a. [Fr. globese: Lat. globoses, from globus.]
Round: spherical; globular.

(B-d.) Spherical, or nearly so; as, globose capsules.
Glob'osite, n. (Min.) A var. of Dufrenite, q. v.
Globos'ty, n. [Fr. globosite; Lat. globositas. See Supra.] Sphericalty; the quality of being spherical.
Glob'osite, a. Same as Globosite; Lat. globositas.
Glob'osite, a. Same as Globosite; See Supra.] Spherical; round.
Globular'ia, n. (Bot.) A gen. of European shrubs and herbs, order Scinginaces. The leaves of G. Alppum form the wild senna of Germany, which have been sometimes employed to adulterate senna-leaves. In small doses they employed to adulterate senna-leaves. In small does they act as a tonic, and in full does as a safe, mild, and efficient purgative.

Globularity, a. [Fr. globularitt. See above.] Sphe-

ricity.

Glob'niarly, de. In a globular manner; so as to resemble the figure of the globe; spherically.

Glob'niarness, n. Sphericity; globosity.

Glob'nie, n. [Fr., from Lat. globulus, dim. of globus.]

A small particle of matter of a spherical form. The term is more particularly applied to the microscopic particles which float about in the transparent serum of blood.

Glob'ulet, n. A small globular particle.

Glob'ulet, n. A small globular particle.

Glob'ulime, n. [Fr. from Lat globulus. See above.]

(Chem.) A substance resembling albumen, associated with hasmatine in the blood-globules, and with albumen in the crystalline lens of the eye, when it is called by some crystalline. 1,000 parts of blood-globules contain 282-22 parts of G. It differs from albumen in being precipitated from neutralized acid and alkaline solutions.

Carbonic acid also precipitates it.

(Bot.) By some this term is applied to the green globules in the cells of cellular tissue, and by others to

all minute ve-icular granules of a vegetable nature.

Glob'ulous, n. Orbicular; spherical; round; globular.

Glob'ulous, n. Saine as Globular; of Globular, Globular, Globular, Gloch'idate, Glochid'erous, Glochid'iate,
a. (Gr. glochis, glochin, a point.) (Bot.) Barbed; hooked back at the point, like the barb of a fish-hook, or with two or more such barbs at the point.) (Bot.) A form

two or more such barbs at the point.

Glo'chin, n. [Gr., a projecting point.] (Bot.) A form of their occurring in plants, forked at the apex; a barb.

Glock'erite, n. (Mm.) A native sulphate of iron.

Massive, sparry, or earthy, and also stalactiic. Lustre resinous or earthy. Color brown to dull green and black.

Comp. Sulph. acid 15-9, sequioxide of iron 62-4, water 21-7.

Comp. Suiph. acid 10% seequioxide of iron 22% water 21%.

Glock mer, (Gross.) a mountain of Austria, on the boundary between the Tyrol, Salzburg, and Carinthia, 12431 ft. above the level of the sea.

Glogan, (Gross.) the chief city of a circle of the same name in Prussian Silesia, on the left bank of the Oder, 35 m. N.N.W. of Liegnitz. Manuf. Woollens, printed which below the consequences were not some trade. 35 m. N.N.W. of Liegnitz. Manuf. Woollens, printed calicoes, hosiery, tobacco, paper, sugar; and some trade and commerce is also carried on. It is surrounded by walls, and otherwise fortified, and connected by a wooden bridge with a strongly fortified island in the Oder. Pop. 21,000, exclusive of the garrison.

Glome, n. [Lat. glomus, a ball of yarn, allied to globus, a ball.] (Bot.) A capitate cyme; a cyme condensed into a head; a roundish head of flowers.

Glome of practe, v. a. [Lat. glomeratus, pp. of glomerare, to gather into a ball, from glomus, a ball of yarn.] To collect into a spherical ball or mass.

—a. (Bot.) Growing in cymes, condensed into a head; growing in dense clusters.

Glomera\*tion, n. [Lat. glomeratio. See above.] The

Glomera'tion, n. [l.at. glomeratio. See ab act of forming into a ball or spherical body.

—A body formed into a ball; a conglomeration.

"The rainbow consisteth of a giomeration of small drops.

Glom'erule, n. [Lat. glomerulum, dim. of glomus. See SUFRA.] (Bot.) A capitate cyme; i.e., a cyme condensed into a head.

densed into a new.

Glom'meu, the principal river of Norway, rising in
the Doorefield table-land, and after a winding but generally S. course of 400 m., falling into the Skager-rack t Friedrichsstadt.

at Friedrichsstudt.

Glooms, n. [A. S. glomung, for aefon-glomung, the light of evening, and hence, waning light; Lat. lumea, from root luc, found in lucere.] Obscurity; partial or total darkness: thick shade.—Cloudiness, or heaviness of mind; sullenness; moroseness; melancholy; sadness.

" His gloom grew upon him." - Swift.

-Aspect of sorrow; darkness of prospect, or aspect; as, a gloom overcasts his brow.
-v. m. To be cloudy, dark, or obscure. — To be sullen, sad,

chely, or dismai.

Gloom'ily, adv. Obscurely; dimly; darkly; dismally; as, the day broke gloomily. — With melancholy aspect; sullenly.

Gloomily retired the spider lives."

Gloom'iness, n. State or quality of being gloomy; want of light; obscurity; darkness; dismalness.—Cloudiness of look; sullenness; mental depression; melancholy; sadness; heaviness; moroseness.
Gloom'ing, n. The gloaming; twilight; dusk.

"The balmy glooming, crescent-lit." - Tenny

Gloomy, a. Obscure; dark; dim; dunky; imperfectly illuminated, or destitute of light; cloudy; dismal; as, a gloomy day, a gloomy house.—Sullen; moroes; melancholy; downcast; sad; depressed; heavy of heart; wearing the aspect of sorrow; as, a gloomy disposition, a my countenance.

glowy countenance.

Glop'pen, r. a. [Icel. glipa, to stare.] To confound with surprise. (Used as provincial English.)

Gloria in Excelsia, glorea in ckasefric.) [Lat., glory to God in the highest.] (Eccl.) The name of a hymn of the Roman Catholic Church, retained in the communion service of the Presbyterian Church, and so called from the words with which it begins. It is founded on the hymn of the Angels, given in Luke ii. 14, and is very ancient, appearing nearly as now used in the Apostolic Constitutions. In the Roman missal it stands at the beginning of the office for the communion. Clorification, m. [Fr., from L. Lat. glorificatio.] Act of giving glory, or of ascribing honors to; as, the plorification of Gud.

Explication to honors and display a lambda. called from the words with which it begins It in

wormcanon of God.

—Exaltation to honor and dignity; elevation to glory.

Glo'rify, v. a. [Fr. glorifor; Lat. gloria, and facio, to make,] To make glorious; to exult; to glory; to ascribe honor or glory to.

"Justice . . . that glorifles the throne." - S. De To praise; to magnify and honor in worship; to land to honor; to extol.

"No chymist but glorifles his prognant pot." Glo'rious, a. [Fr. glorieux; Lat. glorieus, from gloria.
Full of glory; illustrious; of exalted excellence and
splendor; resplendent in majesty and glory; eminent

noble; excellent; renowned; celebrated; magnificent; grand; brilliant; Eplendid; as, a glorious victory. "I'll make thee giorious by my pen,
And famous by my sword." — Marquis of Monte

Boastful; proud; ostentatious; vain-glorious. Glo'riously, adv. In a glorious manner; magnificently; splendidly; with great renown or dignity.

"Great wits sometimes may gloriously offend."-Pope. Boastfully; pretentiously; in a vainglorious manner. "Signor, I speak it not gioriously, nor out of affectation.

Glo'riousness, n. State or quality of being glorious Allory, n. [Fr. plorie; Sp., It, and Lat. gloria; akin to armor, gloar; Ir. glorie, gloir; Gael. gloar, Root glu or gli, conveying the idea of brightness and of joy.] Splendor: magnificence; as of a king; praise ascribed in adoration; honor; praise; renown; celebrity; high reputation. reputation.

"On, ye brave, who rush to glory, or the grave." - Campbell. Distinguished honor or ornament; that which honors or makes renowned; that which confers distinction.—
The divine presence; the felicity of heaven; celestial bliss; the divine perfections or excellence.—Pride; boastfulness; arrogance.

"On deathbeds some in conscious glory lie." — Young. "On deathbeds some in conscious geory in. — \_\_\_\_\_\_\_.

(Painting.) A circle of rays which surrounds the pictured head of saints, &c., and especially of the Saviour; an aureola; a nimbus; a halo; as, a "circle of glory."

South.

v. n. [Lat. glorior.] To exult; joyfully to rejoice. Glory ye in his holy name.

To be jubilant or proud with regard to something. "This title of Freeholder is what I most glory in."

Glose, v. of Freedoter is what is may govy in. — 2 descent Glose, v. . Same as Glosser, q. v. Glose, n. [Fr. glose; L. Lat. glossa; Gr. glossa, a lan-guage; allied to Ice. gloss, to explain; A. S. glisnian; Ger. gleissen, to shine; from the root of glass.] Bright ness or lustre of a body preceding from smoothness of surface; as, the gloss of cloth, silk, or velvet.—A specious appearance or representation; external show that may mislead opinion.

The color of devotion giving a gloss to humility." - Se An interpretation artfully specious; a specious repre

sentation. "The common gloss of theologians." - Millon

Scholium; comment; interpretation; explanation; re

-Schollum: comment; interpretation; explanation; interpretation of uncomment interpretation of uncommon or foreign words: hence the term glossary, q. v. (Law.) The name is given to the interpretations or explanations of the Justinian code, which were generally written between the lines of the text and on the ally written between the lines of the text and on the margin, and were hence called glasse unterletances and plasse marginales. These glosses were sometimes held to be of equal authority with the text itself. Accursins, who died about 1200, collected and arranged the glosses of his predecessors. The practice of introducing glosses was also adopted with the books of the canon law. 31cms. r. a. To give a superficial lustre to; to make smooth or shining; as, to gloss marble, mahogany, cloth,

&c.—To explain; to render clear and evident by comment; to illustrate.—To give a specious appearance to; to render specious and plausible; to varnish; to cover; to palliate by specious representation.

"You have the art to gloss the foulest cause."—Pattips.

-v. n. To comment; to make explanatory remarks; to add scholia. — To make sly remarks; to add scholia. — To make sly remarks. Glosse'rial, a. Containing explanations. Glosse'rial, a. [See in/ra.] A writer of glosses or

Glosarias, a. [See sayra.] a wines or general comments.
Glosary, n. [Fr. glossaire, from Gr. glossa, a tongue or language.] A dictionary, or vocabulary, explaining words that are obscure, antiquated, local, &c. — A dictionary of difficult words or phrases in any language or

writer.

Glosse'collite, n. (Min.) A var. of Halloysite, (q.v.)

It occurs in a seam one inch thick in a silurian rock in
Rising Fawn, Dade co., Ga.

Gloss'er, n. A polisher; one who gives a lustre.—A

command thr

scholiast; a commentator.

Gloss'ily, adv. In a glossy manner. Gloss'iness, s. The lustre or brightness of a smooth surface

surface. Glossi'tis, n. [Gr. glössa.] (Med.) Inflammation of the tongue. It may result from various causes, as mechanical injury, exposure to cold, the use of mercury, &c. The tongue becomes greatly awolien, and is painful to the touch; respiration and deglutition are much interfered with, and one of the chief dangers of the attack is suffered to In milk agent the avoid of the chief dangers of the stack is suffocation. In mild cases, the application of leeches to the part, with the use of purgatives, will afford relief; but in the more severe forms the knife is to be freely used, and pretty deep incision to be made into the inflamed part, which will afford almost instantaneous relief. Glosso'comon, a. (Mach.). A machine composed of several dented wheels with pinious, and used for rais-

ing great weights.

Plosson rapher, n. [Gr. glössa, the tongue, and graphein, to write.] One who writes a glossary; a commentator; a scholiast.

tator; a scholiast.

Glossograph'ical, a. Pertaining to glossography.

Glossography, n. The writing of commentaries, glossaries, and scholia.

(Anat.) A description of the tongue.

Glossolog'ical, a. Of, or belonging to, glossology.

Glossolog'ical, a. Of, or belonging to, glossology.

Glossol'ogist, n. One skilled in glossology; one who defines and explains terms.

Glossol'ogy, n. [Fr. glossologie; Lat. glossol gid, from Gr. glossol gids, language, and logos, a discourse.] The definition and explanation of terms used in a science.—That doctring or science, which investigates the acreement. doctrine or science, which investigates the agreement and differences of the various languages spoken or written by different nations; comparative philology; linuistics

guistics.

lossot'omy, n. [Fr. glossotomie, from Gr. glossa, the tongue, and tome, a cutting, from tempern, to cut.] (Surg.)

tongue, and tome, a cutting, from temers, to cut ] (Sary.) Dissection of the tongue.

Glow'ny, a. Smooth and shining; reflecting lustre from a smooth surface; highly polished; as, glossy plumage.

—Specious; deceptive; plausible, but untrue.

Glov'al, a. [Gr. glöttis.] Of, or belonging to, the

glottis.

Glot'talite, n. [Lat. Glota, the river Clyde, and Gr. lithas, a stone.] (Min.) A variety of Edingtonite (o. r.) from Port Gascon, on the Clyde. It is a hydrous silicate

from Port Gascon, on the Clyde. It is a hydrous silicate of alumins and lime.

Glat'tis. n. [Fr. glotte; Gr. glöttis, glössis, the mouth of the windpipe,—akin to glössa, glötta, the tongue.]

(Anat.) The slit or aperture at the entrance of the organ of voice, situated between the cartilage known as the arytenoid, and the access by which the air descends the windpipe and reaches the lunga, and which opening is protected by the small cartilage called the epightis, which in swallowing falls like a lid or valve over the opening.

is protected by the small cartilage called the epiglottis, which in swallowing falls like a lid or valve over the opening.

Glottolog'ical, a. Same as GLOSSOLOGICAL.

Glottology, n. Same as GLOSSOLOGICAL.

Area, 1,258 sq. m. There are three distinct districts in G., the natural features of each being different from either of the others. These are the Hill district, formed by the Cotawold hills; the Vale, comprising the vales of Gloucester and Berkeley, formed by the rich low meedow-lands along the banks of the Severn, and the Forest of Dean. Riverz. The Severn, Wye, Upper and Lower Avon, and the Thames. Prod. The vale of Berkeley is chiefly devoted to the produce of the dairy, and the rearing of cattle, and yields all the very superior chaese known by the name of Double Gloucester. Large quantities of cider and perry are made in both vales, —G. being one of the largest of the cider-producing counties in England. The sheep of the Cotawold hills are large, and yield a fine, long combing-wool. Min. Coal, iron, and lims. The coal supplies the immense consumption of the manufactories of Bristol, and even to a certain extent of these of Bath. Blue claystone of excellent quality is fogse! coal supplies the immense consumption of the manuscriptions of Bristol, and even to a certain extent of these of Bath. Blue claystone of excellent quality is found; also freestone in abundance, and stone-tiles in the Cotwold hills. Manuf. Tin-plates, edge-tools, and bardware; but the most important are those of superfine broad-cloths, Spanish wool, worsted stuffs, and carpets of the continuous contracts with tookings must and blankets and orrangements, opining wood, worsed stude, and capes at Circocester, with stockings, rugs, and blankets sad cottons at other places. A navigable canal connects by means of a tunnel, at Sapperton, the Severy with the Thannes,

1349

GLOUCESTER, the chief city of the preceding county, on the left bank of the Severn, 36 m. N.N.E. of Bristol, and 107 m. W.N.W. of London. It has spacious docks and a fine old cathedral. Manyf. Iron and steel goods, soap, malt, pottery, railroad fittings, agricultural implements, bells, drugs, &c. G. has a large foreign trade, and communicates with the open part of the Severn by means of a ship-canal, 17 m. in length. Pop. (1895) 40,140.

Glow'ceater, a N.E. county of New Brunswick, having the Gulf of St. Lawrence on the E. and Chalcur Bay on the N.; creu, about 1,684 sq. m. Risers. Nipisiguit and N. Tracadio rivers, besides many smaller streams. Surface, much diversified; soil, moderately fertile. There are several considerable islands upon the coasts, the principal of which are Shippegan and Miscone. Cap. Bathurst. Pop. (1895) 19,200.

Gloucester, in Massachusetts, a city and port of entry of Essex co., about 28 m. N.N.E. of Boston. The town is conveniently situated upon one of the best harbors of the State and commands a very extensive commerce. Pop. (1895) 28,211.

the State and com Pop. (1895) 28,211.

the State and commands a very extensive commerce. Pop. (1895) 28,271.

Glemeester, in New Jersey, a S. W. county, bordering on Pennsylvania; area, about 326 sq. m. Ricers. Delaware river and Big Timber, Oldmans, Raccoon and Mantua creeks. Surface, generally flat; soil, mostly fertile. Mm. Iron. Cap. Woolbury. Pop. (1895) 31,191.

A township of Camden co.

Gloucester, in Rode Island, a township of Providence co., 15 m. W. by N. of Providence. Pop. (1890) 2,095.

Gloucester, in Virginia, a S. E. county, bordering on Chespeake Bay; crea, about 245 sq. m. Ricers. York and Plankatank rivers. Surface, broken; soil, in some parts fertile. Cap. Gloucester. Pop. (1890) 11,653.

Gloucester City, in New Jersey, a city of Camden co., ou the Delaware river, about 42 m. kS.E. of Richmond.

Gloucester, in Nicolay Scatter, and Cambon co., on the Delaware river, about 4 m. below Camden, on W. J. R. R. Pop. (1895) 6,225.

Glous'ter, in Ohio, a post-village of Athens co., on the C., 8, & H. and K. & M. R. Rs. Pop. (1890) 1,213.

C, 8, & H. and K. & M. R. Rs. Pop. (1890) 1,213.

Glove, [glar.] [Sax. glo/] is a covering for the hand, which is divided into compartments for each separate fanger. Xenophon asserts that the Persians used gloves in cold weather, and makes a charge against them on that account, for their luxurious habits. They were in early use in England, as is learned by their Saxon name; and in the Middle Ages they were decorated with gold and precious stones, and formed a costly article in the dress of kings, nobles, and prelates. In the days of chivalry, it was the custom for the knights to wear the glove of a lady in their helmet, and this gift from the fair sex was esteemed a great favor, the knight's success in arms being considered as owing to the virtue of the laly. Throwing down the glove, or gauntlet, was likewise esteemed a challenge to single combat amongst our ancestors, and he who took up the glove thus cast down was deemed to have accepted the wager of leattle.

Mans/. The principal substances of which gloves are made at the present day are dog-skin, doe-, buck, lamil-skin, kid, and various other kinds of leather; besides silk, cotton, wool, and admixtures of the same. Particular kinds of gloves are known more from the place in which they are manufactured however than from the made at the present day are dog-skin, doe, buck, lamidakin, kid, and various other kinds of leather; beddes silk, cotton, wool, and admixtures of the same. Particular kinds of gloves are known more from the place in which they are manufactured, however, than from the substances of which they are composed; as Berlin, Woodstock, Limerick, and Kendal. Rid gloves are the most used, and obtain the highest price in market; the best of these are the French make, and hardly any of English or German manufacture can come up to them in point of elasticity and general excellence. Sheepskin gloves are usually of a white color, and are greatly used in the army. Doeskin gloves are of a soft leather; and Woodstock gloves are a coarser variety of these. The process of glove-making is very simple; and, since the introduction of machinery into the trade, admits of no complicity of manufacture. The dressed skins are first cut out by cutting-machines, and the fingers and thumb pieces are likewise separately cut. These disjointed particles of the glove are given into the hands of the sewers, who work it up into the desired form. The sewers use a clasp or clam, which is held between the feet and knees, and clasps the leather while being sewn. French gloves are imported into England at a rate of above 4,000,000 pairs per annum. Embroidered gloves are mow made to buckskin gloves, a kind of glove more peculiarly American than any other; and the chief seat of this business is at Gloversville, N.Y. Kid gloves are now made to buckskin gloves, a kind of glove more peculiarly American than any other; and the chief seat of this business is at Gloversville, N.Y. Kid gloves are mow made to buckskin gloves, a kind of glove more peculiarly American than any other; and the chief seat of this business is at Gloversville, in New York, a city of Fulton co, 53 m. N.W. of Albany. It has extensive manufactures of glove and mittens. Pop. (1897) about 14,500.

Glow'er, in Scath Dukota, a township of Edmunds co. Glow'erswille, in New York, a city of Fulton

The scorehing fire, that in their entrails glows."

-To feel great heat of body; to be hot.

"The cord sildes swiftly through his stowing hands."—Gay.

To exhibit a strong, bright color; to be bright, or red with heat, animation, or binsies.

"A smile that stowed."—Hitton.

GLUC

To be ardent; to be animated; as, to gloss with love of country, seal for religion, or the like.

-a. Shining or white heat; incandescence; great heat without fiame. — Brightness of color; redness; hence, vehemence of passion.

"The red glow of scorn and proud disdain."—Shake.

Glow'er, v. n. [Scottish.] To stare; to look fixedly.

"The rising moon began to g

—To stare angrily.
Glow'ing, p. a. Burning with vehement heat; exhibiting a bright color; red; ardent. — Animated; vehement; iuflamed

Glow'ingly, adv. With great brightness; with ardent

Giow'imgly, ade. With great brightness; with ardent heat or pussion.

Glow's worms, ... (Zoil.) See Lamperide.

Glowin'is, n... (Bd.) A genus of plants, order Generacze. Some of the species are among the more popular flowers, and are well known to gardeners by their forglove-shaped flowers of varied colors each standing on a separate stalk, — in some forms with the opening of the tube directed downward; in others (which have originated in a freak of nature) standing erect. The G. generate buds from fragments of their leaves, under the hands of the cultivator.

Glome, v. n. [A. S. glesan, to flatter. See Gloss.] To use specious and plausible words: to wheedle; to flatter; to fawn; to talk smoothly.

-v. a. To pallinte by specious exposition: —in this sense, it is followed by the prep. over; as, to glose over a fault.

-n. Flattery; salulation.

"Now up plaid dealing:—lay these gloses by."—Skaks.

" Now to plain dealing : - lay these gloses by." - Shake.

"Now to plain dealing:—lay these glosse by."—Blane. Glos'er, n. A flatterer. Glos'ing, n. Specious representation. Gluchev, (gloo'hor.) a town in the S.W. of Russia, prov. of Tchernigov, on the Verbooka, 112 m. E.N.E. of the town of Tchernigov. Lat. 51° 40° 30" N., Lon. 34° 20° 15" E. It has some trade in grain. In the vicinity, porcelain-clay of a very fine quality is obtained and sent N. to the imperial manufactory at St. Petersburg. G. was formerly the resilience of the Cossack hetmans, and of the governors of Little Russia.

\*\*Climical A. Acid. n. (Clim.) A soluble deliquescent acid

the governors of Intto Massac. Blue'cle Acid, n. (Cirm.) A soluble deliquescent acid obtained by the decomposition of a combination of grape-sugar with lime or baryta. It is also called Kalisac-

charte detal.

Gluci'na, Glu'cine, n. (Chrm.) A sesquioxide of the
metal Glucivum, q. v. It is found associated with silica
and alumina in the emerald, heryl, chrysoberyl, and
euclase. It was at first mistaken for alumina, which it recembles in appearance, and in forming a gelatinous precipitate on adding ammonia, but it differs from it in being soluble in cold carbonate of ammonia, which is consequently used to separate the two. It was unscor-

ored in 1788.

Gluci'num, s. [Gr. glukus, sweet, from the sweet taste of its salts.] (\*\*them.) A rare metal, the base of the earth glucina. It resembles aluminum, and is prepared in the same manner. It is not acted on by water, fuses with difficulty, and when heated in the sir, burns, producing glucina. It was discovered by Wöhler in 1828. Symb. 6. Equit. 6-9.

Gluck, Craistoph Willibald, a German musical composer, E. at Weissenwangen, 1714, studied music at Milan, under San Martini, and presented soon alterward several operus at sundry theatres in Italy, which failed to attract public attention. Judging that his want of success was partially due to the weakness of the libratic, he conjoined with himself in his labors the poet Ranteri di Callabigi, and his next subsequent opera, Heleva and conjoined with himself in his lators the poet Ranieri di Calkabigi, and his next subsequent opers, Helena and Puris, was received with tumults of applause. In 1774 he went to Paris, and presented there successively several masterpieces, as Iphigenia in Aulis, Orphicus, Armidas, Iphigenia in Tuurus, Alorsics. The composer Piccini hav-ing also presented su opers called Alossics, there arose be-tween the two composers and their respective partisans a very animated quarrel as to the pre-kminence of the two rivals, and of the style cultivated by each. It would two rvais, and of the style cultivated by each. It would seem that each had his own share of the right in the dispute, for while Piccini had sweetness of melody, Gluck had musical truth, and the power and grandeur of harmony on his side. The contest of the Gluckists and Piccinists, which for a time divided the whole musical world, resulted in the complete victory of Gluck

sical world, resulted in the complete victory of Gluck. Having composed two more operas, Gluck returned to Vienna in 1779, and never after quitted that city. D. 1787. Glitick stadt, (globk stat.), a scaport and town of Prussia, in the duchy of Holstein, on the Eibe, 28 m. from Hamburg; pop. 7,234. Gluckes, Garpe or Starch Sugar, a. [Gr. glukus, sweet.] (Chem.) A sugar found in many of the sweet. (Chem.) A sugar found in many of the sweet. Ac. It is also formed from starch, and cellulose or woody fibre, by the action of sulphuric acid. Water containing the —k—part of sulphuric acid is heated to woody nore, by the action of sulphiric acid. water containing the  $\frac{1}{10}$  part of sulphiric acid is heated to the boiling-point, and a mixture of starch and water, likewise heated, is allowed to flow gradually in, so as not to lower the temperature. After boiling  $\frac{1}{2}$  hour, chalk is added, to neutralize the acid, and the clear liquid drawn off and evaporated. If linen or cotton cloth, paper, or sawdust be moistened with concentrated allohuric acid a gumpy rease is formed. After a few likewise heated, is aniowed to now grammont to lower the temperature. After boiling ½ hour, chalk is added, to neutralize the acid, and the clear liquid drawn off and evaporated. If linen or cotton cloth, paper, or sawdust be moistened with concentrated sulphuric acid, a gummy mass is formed. After a few days this should be dissolved in a large quantity of water, and boiled for 8 or 10 hours. After neutralizing and evaporating, the sugar is obtained as before. Graystellizes in warty masses, not ofter presenting requires any light of study."—Pope. —Anything that fills and obstructs the passage; as, a glust of whitese in warty masses, not ofter presenting requires in splitting timber, to facilitate the removal and far less soluble in water, requiring 1½ parts of water to dissolve it, while cane-sugar requires only ½ part. It is used in the manufacture of beer and alcohol, and also for adulterating cane-sugar. It may be defined as a constant of the smaller iron wedges.

Glauteella, a. [See above.] (Anat.) Belonging to the glutsous; as, the glutcal artery.

tected in solutions of sugar thus adulterated, by adding a little solution of sulphate of copper and solution of potash, enough to form a deep bine. On gently heating, if G. be present, a red precipitate of suboxide of copper will be formed, while with pure can-sugar it will not form, unless the liquid be boiled. It may also be detected by the specific gravity, and by the action of the solution on polarized light. G. forms with common sait a compound that readily crystallizes. G is found in small quantities in animal bodies. In the disease called diabetes, it is found in large quantities in the urine. urine.

ease called diabetes, it is found in large quantities in the urine.

Blue, n. [O. Fr. glu; Lat. gluten, from obsol. gluere, to draw together: Gr. glia, gloria; W. glyd.] That which draws together and causes to adhere.

(Applied Chem.) G. is an impure gelatine, q.v. It is prepared from the clippings of hides, hoofs, &c. These are steeped for several days in lime-water, to remove the hair and blood, and then drained and dried in a current of air for some days, that the lime may absorb carbonic acid, and thus prevent the injurious effects of the alkaif upon the gelatine. They are then boiled in water until the solution is found to gelatinize firmly on cooling. The impurities are allowed to settle, after which it is allowed to gelatinize in shallow wooden boxes, cut into slices and dried upon nets. Good glue is semi-transparent, and free from spots and clouds. When wanted for use, it is broken in pieces and steeped in cold water until it softens and swells. It is then melted over a gentle fire, or, what is better, in a water-bath, and applied in a liquid state with a brush. As the stiffening of glue depends on the evaporation of its superfluous moisture, it will not harden in a freezing temperature.

G. Marñae is a composition used for cementing materials that are exposed to moisture. It is made by disolving I part of India rubber in 12 parts of mineral naphtha, and adding 20 parts of powdered shell-lac. It not only resists wet, but cements glass and metals as well as wood.

Blue'er, n. One who joins or cements with glue.

well as wood.
Glu'er, n. One who joins or cements with glue.
Glu'er, n. Quer, to lime, to glue. To join with glue,
or any viscous substance; to unite; to hold together.

a. Viscous; glutinous.
Glu'eyness, n. Quality of being gluey.
Glu'ish, a. Having the nature of glue.
Gluma, a. [From gloom.] Sullen; stubbornly grave;
silent; as, to sit or look glum.
Gluma'eeous, a. [Fr. glumacée.] (Bot.) Having or
bearing glumes; consisting of glumes.
Glu'mal, a. (Bot.) Having glumes, i. e. husks or
chaff, as the grassee.
Gluma'eea, n. pl. (Bot.) The Grasses, an important

Glumal, a. (Bat.) Having glumes, i. c. husks or chaff, as the grasses.
Glumales, n. pl. (Bot.) The Grasses, an important alliance of plants, class Endogens. The great mass of herbage known by the name of Grasses and Sedges, constitutes perhaps a twelfth part of the described species of flowering plants, and at least nine-tenths of the number of individuals composing the vegetation of the world; for it is the chief source of that verdure which covers the earth of northern countries with a gay carpet during the months of winter. Such forms of vegetation are provided by nature with true flowers, that is to say, with stamens and pistils, the action of the former of which upon the latter is indispensable for the creation of a seed; but there is little true of the calyx and corolla, which are commonly characteristic of the more perfect races of plants; not that floral envelopes are wanting, but they do not assume the whorled or ringed position of the parts which form a calyx and corolla; they merely cunsist of minute green or brown bracts placed one over another, and sometimes appearing to be united by their edges. There is also great simplicity in their pistil, but one ovule being formed in each cavity, whatever number of carpels (indicated by the stigmas) may be employed in the construction of it. Their foliage is as simple as it can be to have any considerable degree of development, consisting of fine thread-shared veins running side by side the construction of it. Their longe is as simple as it can be to have any considerable degree of development, consisting of fine thread-shaped veins running side by side from one end of the leaf to the other. The alliance is divided into 5 orders, viz., GEAMINACEM, CPPERACEM, RESTLACEM, including DESVAUXIACEM, and ERIOCAULA-CER, q. v.

CLE, q. v.

CLE, q. v.

Fr. glowne. glume: Lat. gluma, from glubere, to strip, or peal off; Gr. gluphrin, to hollow out.]

(Bot.) The exterior one of the two-ranked imbricated bracts, surrounding the spikeleted flowers of the Graminacre, or Grass family.

Glu'melle, n. [Fr. dim of glume. See above.] (Bot.)

Either one of the inner glumes or palese that immediately surround the flowers of the Graminacre.

Glu'mous, a. [Fr. glume. See Glume.] (Bot.) Having a filliform receptacle with a common glume beneath.

Hut, v. a. [Lat glutire, onomatopoetic, from glut-glut, an imitation of the sound made by water in passing through a narrow aperture, or in being discharged from it. The same sound is represented by glut and gulp.] To swallow greedily, or in large quantities; to gorge.—To cloy; to fill or furnish beyond sufficiency; to sate; to satiate; to fill to satiety; to disquet.

Hu'tou, n. [Lat. glas. See GLUE.] (Chem.) If wheat-flour be put in a bag of coarse cloth, the starch and sol-uble matters will be carried off, and there will remain a uble matters will be carried off, and there will remain a gray sticky mucous mass, which is G. It is a character-istic ingredient of the cereals, and by its toughness and tenacity fits the flour of the wheat especially for the manufacture of bread, pastes, &c. By means of hot alcohol, G. may be divided into three distinct substances. one portion does not dissolve, and is called egetable fibris. From the soluble part separates, on cooling, a white, floculent substance resembling the caseine of milk. On adding water to the solution, a third substance, resembling albumen, separates, which is called gliadin. G. contains traces of sulphur and phosphorus. It yields ammonia when subjected to destructive distiltion, and vegetables containing it give out a disagr

lation, and vegetables containing it give out a disagree-able door when putrefying.

Glu'ismate, v. a. [Lat. glutinare, from gluten, glue.] To unite with glue; to coment.

Glutina'ison, n. [Fr., from Lat. glutinatio. See above.] Act of uniting with glue.

Glu'ismative, a. [Fr. glutinatif; L. Lat. glutinativus. See diue.] Having the quality of comenting; tenacious.

Glu'isme, n. [See Glue.] (Chem.) A substance resembling gluten, but not soluble in alcohol.

Glutinous'ity, n. [Fr. glutinatid. See Glue.] Quality of being glutinous; viscousness.

Glutinous, a. [Fr. glutineux: L. Lat. glutinous, from glut-n, glue.] Viscous; viscid; tenacious; resembling glue.

from gluten, glue.] Viscous; viscid; tenacious; resembling glue.
(Bot.) Covered or smeared with a slippery moisture; as a glutineus leaf.
Glutineus nees., n. Same as Glutinesity, q. r.
Glutitious, n. [Fr. glouten; L. Lat. glute, glutte, from gluter, to glut. See Glut.] One who indulges to excess in eating.—One eager of anything to excess.
(Zoil.) See Glut.
Glution a. of or belonging to a glutton; gluttonous.
Glutionish, a. Greedy; eager.
Glutionish, a. Greedy; eager.
Glutionish, a. Greedy; eager.
Glutionish, a. Greedy; eager.
Glutionish, a. Greedy; eaver.

Clusty, with an a. Give ing in excessive eating. Given to excessive eating; consist-

"Due nourishment, no sluttenous delight,"- Wille

Glut'tonously, ade. With the voracity of a glutton with excessive enting.
Glut'tony, n. [O. Fr. gloutonnie; Fr. gloutomerie See Glutron.] Excess in enting; extravagant indul-

See GLUTON.] Excess in eating; extravagant indulgence of the appetite for foot; invary of the table. Glyce'ria, n. [From Gr. glut'rus, aweet; on account of the sweet tasts of the seeds.] (Bot.) A genus of plants, order Graminaces, represented in our flora by G. flutians, and G. acutifora. G. flutians is called Manna grass, and its seeds are collected in some countries, and prepared for sale under the name of Manna croup. Glyc'eric Acid, n. [Gr. glakus, aweet.] (Chem.) A non-crystalline acid formed by the oxidation of glycerine by nitric acid. Flora. Cglit, b. Glyc'erides, n. pl. (Chem.) Compounds of glycerine with acids. They are formed with acetic, benzoic, and the fatty acids.

with acids. The

with actus. Hey are between that severy method the fatty acids.

\*Hyc'erime, a. [Gr. giskera, sweetish.] (Chem.) The sweet principle of oils and fats. It is obtained by boiling olive-oil with litharge and water until the acids of the oil are converted into lead-salts, which are insoluble, while the G. remains in solution. It contains a little oxide of lead, which is precipitated by hydrosulphuric acid. It is a sweet, viscid, colorless liquid, soluble in water and alcohol in all proportions. Ether dissolves it but sparingly. It may be distilled in a current of superheated steam, but distilled alone it decomposes and evolves irritating vapors of acrolein. By the action of nitric acid it is converted into oxalic acid. It has many uses in the arts and manufactures. Its consumption nitric acid it is converted into oxalic acid. It has many uses in the arts and manufactures. Its consumption in the manufacture of beer amounts to more than 20,000 cwt. per annum. In medicine it is chiefly used as a dressing for sores, as it is easily washed off. Form. (C,H,(OH)<sub>2</sub>). Frequently spelled Guyoranim. Glyc'eryle, s. (Chem.) The radical of glycerine. Glyc'e-benso'is Acid, s. (Chem.) A crystalline substance formed by the action of nitrous acid upon hipopric acid.

hippuric acid.

ilycochol'ic, or Glyco-cholal'ic, Acid, s. (Chem.) An acid found in the bile (q.r.). When dried, ox-bile is treated with cold alcohol, filtered and mixed ox-bile is treated with cont account, interest and mixed with ether; it yields crystals of glycocholate of soda and potash. Decomposing the glycocholate of soda by sulphuric acid, we obtain the G. acid in fine white needles. It is soluble in water and alcohol, and has a bitterish-sweet tasts. Form. C. a.H. 4. NO.
Glyco-cholal'ie Acid, n. (Chem.) See Glycocholae

ACID.

Gly'cocine, Gly'cocoll, or Sugar of meantime, n. (Chem.) A sweet, colorless, crystalline substance obtained by the action of acids or alkalies on
gelatine. It is very soluble in water, but insoluble in
ether and alcohol. Form. C<sub>2</sub>H<sub>8</sub>NO<sub>2</sub>, being isometric

with nitrous ether.

Gly'cogen, s. (Chem.) A kind of animal starch found in the liver. After death it is converted into sugar by assimilating the elements of water. Form. C. H., O., C. Gly'co-hyocholal's Acid, n. (Chem.) An acid obtained from pig's bile.

Gly'col. n. (Chem.) A sweetish, colorless, viscid liquid, soluble in water and in alcohol. It is obtained by first forming the binicidide of ethyline by the union of ole-flant gas with iodine. The action of this upon accetate of gottash at 360° Fahr, and distilled, gives G. It maim'dem, a town of Upper Austria, on the lake and silver forms binacetate of G. This, digested with hydrate of potash at 360° Fahr, and distilled, gives G. It mism'dem, a town of Upper Austria, on the lake and in the circle of Traun, 7 m. S.W. of Linz; pop. 4,100.

Grand Master.

Gmellinite, n. (Min.) A mineral occurring at Cape Binnion, Not Scotia, on the island of Cyprus, and elsewhere. Color. Yellowish-white to flesh-red. Sp. gr. 204-217. Comp. Silica 4656, a lumina 2018, lime 3\*89, soda 7\*09, potassa 1\*87, water 29\*41.

Gmumd, a town of Wutremberg, on the Rems, 29 m. Ehn.E. from Suttgart. Manuf. Jewelry, hardware, spinning, and stocking-weaving.

Gmumdia.

Gmaclinite, n. (Min.) A mineral occurring at Cape Binnion, Not Scotia, on the island of Cyprus, and elsewhere. Color. Yellowish-white to flesh-red. Sp. gr. 204-217. Comp. Silica 4656, a lumina 2018, lime 3\*89, soda 7\*09, potassa 1\*87, water 29\*41.

Gmumdia. a town of Wutremberg, on the Rems, 29 m. Ehne 3\*80, soda 7\*09, potassa 1\*87, water 29\*41.

Gmumdia. a town of Wutremberg, on the Rems, 29 m. Ehne 3\*80, soda 7\*09, potassa 1\*87, water 29\*41.

Gmumdia. a town of Wutremberg, on the Rems, 29 m. Ehne 3\*80, soda 7\*09, potassa 1\*87, water 29\*41.

Gmumdia. a town of Wutremberg, on the Rems, 20 m. Ehne 3\*80, soda 7\*09, potassa 1\*87, water 29\*41.

Gmumdia. a town of Wutremberg, on the Rems, 20 m. Ehne 3\*80, soda 7\*09, potassa 1\*87, water 29\*41.

Gmumdia. a town of Wutremberg, on the Rems, 20 m. Ehne 3\*80, soda 7\*09, potassa 1\*87, water 2

never been frozen. It is the type of an extensive series of derivatives, as numerous as those derived from alcohol. By some it is stated to be the connecting link hol. By some it is stated to be the connecting link between the organic and inorganic products of chemistry. It differs from alcohol in containing two atoms more of oxygen; its form being C<sub>2</sub>H<sub>2</sub>O<sub>2</sub>. Glycol'te Acida, a. (Chem.) A syrupy liquid, obtained by exposing glycol to the action of nitric acid or of oxygen in the presence of platinum black. It resembles lactic acid, but differs from it in being precipitated by accetate of lead. Form. C<sub>2</sub>H<sub>2</sub>O<sub>2</sub>. Glycon-fle, s. [Fr. glycon-sine, glycon-fue; Gr. glukon-sine, from the name of the inventor, Glycon.] (Pros.) A kind of verse, in the Latin and Greek poetry, consisting of three feet, vin., a spondee (--), a chorlambus

ing of three feet, viz., a spondee (--), a choriambus (-- $\sim$ -), and a pyrrhichius ( $\sim$ -), without other variation than the usual allowance for the final syllable, and without chorus or change of metre; as:
"Sic ta, diva potens Cypri."—Horacs.

"Sie ta, diva potens Cypri."—Horses.

Glycon'le, Glycon'man, a. (Proc.) Of or pertaining to the glyconic verse; as, a glyconic stanza, a glyconic ode.

Glycyrrhi'ma, n. [Gr. glukus, sweet, and rhiza, a root.] (bot.) The liquorice, a genus of plants belonging to the sub-order Tupitionacce in the order Fabacce. The roots, or underground stems of G. glabra, the common or smooth liquorice, G. echinata, the echinate-podded liquorice, and other species, native of S. Europe, jossess a remarkably sweet taste, which is due to the presence of an uncrystallizable sugar, to which the names of glycyrrhizin, glycon, and luquorice-sugar have been given The dark-colored extractive matter which the rhizomes furnish on decoction, contains a large probeen given The dark-colored extractive matter which the rhzomes furnish on decoction, contains a large proportion of this peculiar substance. The extract inspisanted is largely imported into this country under the names of liquorico-juice, Spanish juice, and Italian juice. That imported from Spain is prepared from G. glubra; that from Italy it is the product of G. echisata. Immense quantities of this substance are annually imported into the U. S., running in some years as high as seven or eight millions of pounds, or even more, and yielding a considerable revenue to the customs. It is used for considerable revenue to the customs. It is used for confectionery purposes, in medicine for flavoring, and as a demulcent pectoral, and by the brewers for coloras a demulcent pectoral, and by the brewers for coloring certain beers. Various preparations of liquorice
are commonly kept in the shops, and sold under the
names of pipe-liquorice, pontefruct losenges, extract of
liquorice, and solari juice. In France, there is an extensive use of liquorice-water by poor people in the
promenades and public places, under the name of coco.
It is also sold extensively, under the name of coco,
in the towns of Turkey and Egypt, like sherbet.
Glycyr'nhimine, n. (Chem.) The sweet principle of
the clycyrrhize glabra, or common liquorice. It somewhat resembles mannite, but does not crystallize, and
will not ferment.

will not ferment.

will not ferment.

Glyde, a river of Ireland, rises in the co. of Monaghan, in Ulster, and flows E. Into Dundalk Bay.

Gly'mont, in Maryland, a post-office of Charles co.

Glym, (gtin.) n. [W.] Sume as GLEN, q. v.

Glym'don, in Pansylvania, a P. O. of Crawford co.

Glym'don, in Georgia, a S.E. co., bordering on the Atlantic Ocean; area, about 427 sq. m. Rivers. Altamaha river and some smaller streams. The coast is much indented with bays and inlets. Surface, diversified; and sandwain some parts Gretla, the Brunselied;

meented with bays and litets. Surface, diversified; soid, sandy—in some parts fertile. Cup. Brunswick. Pop. (1806) 13,420.

Gly'oxal, n. (Chem.) Aldehyde of glycol.

Glyph, (gif,) n. [Fr. glyphe; Gr. glüphē, from gluphein, to carve or hollow out.] (Arch.) A perpendicular fluting or channel, used in the Doric frieze.

Glyph be. n. A pure form of Hurngary and a

Glyphie, n. A rare form of Hisrocitphic, q. v.
Glyphegraph, (glif'o-graf.) n. [See below.] A plate made by the operation of glyphography or Electro-

11Nr., q. r. Giyphograph'ie, a. Of, or belonging to, glyphogra

etypnograph 1e, a. ot, or belonging to, glypnography, or electro-tint.

Glyphog'raphy, n. [Gr. gluphein, to hollow ont, and graphe, a writing, from graphein, to write or describe.] Same as ELECTRO-TINT, q. v.

Glyp'tie, a. [Fr. glyptique, from Gr. gluptes, fit for carving, from gluphein, to engrave.] Pertaining to the art of engraving on precious stones.

Glyp'tie, Glyp'ties, n. sing. The art of engraving on precious stones.

on precious stones.

Glyp'tedens, n. [Gr. gluptos, carved, and odous, odontos, a tooth.] (Pul.) A fossil Armadillo, of gigantic proportions, found in S. America. In size it was equal to the rhinoceros.

Glyptograph'ie, a. Relating to or describing the

Glyptograph'(e, a. Relating to or describing the art of engraving on precious stones.

Glyptog'raphy, n. [Gr. gluptos, carved, and graphé, a description, from graphén, to describe.] A description of the art of engraving on precious stones.

Glyptothe'ea, n. [Gr. gluptos, carved, and thèké, a case, from tithenai, to place.] A building or a room for the preservation of works of sculpture.

Glys'ter, n. Same as CLISTER, q. v. G. M.. Grand Master.

G. M., Grand Master.

Gime Insite, n. (Min.) A mineral occurring at Cape
Blomidon, Nova Scotia, on the island of Cyprus, and
elsewhere. Color. Yellowish-white to flesh-red. Sp. gr.
204-217. Comp. Silica 4656, alumina 2018, lime 389,
soda 7-09, potassa 1-87, water 29-41.

Gimund, a town of Würtemberg, on the Rems, 29 m.
E.N.E. from Stuttgart. Manuf. Jewery, hardware,
spinning, and stocking-weaving.

Gimiin'dem, a town of Upper Austria, on the lake and
in the circle of Traun, 7 m. S.W. of Linz; pop. 4,100.

Gina'denhutten, in Ohio, a post-village of Tuscarawas co.

from the cottony surface of the herbage.] (Bot.) The Life-everlasting, a genus of plants, order Asteraces. G. polycophalism, the Cotton-weed, common in fields in the U. States. is distinguishable by its strong, agreeable odor, and its brownish color. Stem 1-2 ft. high, whitish, with a cottony down, much branched; leaves sessite, cottony beneath; flowers in crowded clusters at the ends of the branches; involucre with whitish scales and values flowers. and vellow flowers.

marl, (narl) v. n. [A. S. gnyrran; Ger. knarren, kn ren, to snarl.] To growl; to murmur; to snarl. "And wolves are gra erting who shall gnaw thee first."-Shake.

n. A knot in wood.

-n. A knot in wood.
Gmar'led, Gmar'ly, a. Knotty; full of knots; as, the gnarled oak.
Gmash, (nash.), v. a. [Dan. knasker, to crush between the teeth; Ger. knirschen. The word is formed from the sound made by striking or dashing the teeth together.] To bring together with force, as the teeth or jaws; to strike together, as the teeth.
-v. n. To strike or dash the teeth together, as in rage, pan or anguish.

pain, or anguish.

Gnash'ing. n. A grinding or striking of the terth together, as in rage or anguish.

together, as in rage or anguish.
"There shall be weeping and geaching of teeth."—Matt. vili. 14
Gunash 'inggly, ade. With gnashing.
Gunat, (nat.) n. [A. S. gnat, from gnidan, to rub; Ger.
grütze, the itch; allied to Gr. kwizein, to cause to lith.]
(2061.) The Culicidz, or Gunt family, are dipterous insects, whose mouths are furnished with bristly stings,
included in flexile sheaths. Some of the species are extremely troublesome, as they pierce the skin to feet
upon the blood, and at the same time inject an irritating
releases fluid. That flight is accommand by a lune. upon the blood, and at the same time inject an irritating poisonous fluid. Their flight is accompanied by a hum-ming noise, occasioned by the vibration of their wings: they seldom appear in the day-time, except in thick woods, and they abound in moist situations, which is easily accounted for by their larve being inhabitants of easily accounted for by their larve being inhabitants of the water. In this state they are very active, swimming with great sglitty, and often decending; but coming to the surface to breathe, which they do head downwards, the respiratory orifice being at the end of a very prolonged spiracle arising from the end of the abdomen.—That well-known insect, the common gnat (Calex pipess), is produced from a singular-looking aquatic larva; it has a large head, furnished on each side with a pair of astenne-like jointed processes; the thorax large and angular; the body suddenly lessening from this part, and continuing of nearly the same size to the tail, which is abruptly truucated, and tipped with four foliaceous pro-

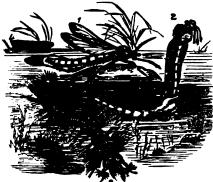


Fig. 1167. — GNAT. MAGNIFIED.

1. Insect depositing egg; 2, insect eccaping from papa case;
2, larva of gnat; 4, floating rath of eggs.

cesses. In about fifteen days' time the larvæ are full-

3, larva of gast; 4, floating raft of eggs.

cosses. In about fifteen days' time the larvæ are fullgrown, and arrive at the pupa state; the animal thea
appears to have a rounded form, is very active, and still
inhabits the water; the position of its breathing apperatus, however, is now altered, being situated at the
anterior part of the body, and consists of two little tubes,
which are applied to the surface of the water for the
reception of air. When ready to assume the perfect
state, it rises to the surface, and the G-quickly emerges
from its confinement. — A warm, rainy season is most
favorable to the evolution of G; and, in such summers,
particular districts in most countries are occasionally
pestered by them in countless swarms. In Lapland, expecially, during the heats of the short summer, the Gfill the air with such swarming myriads, that the poor
inhabitants can hardly venture to walk out of their
cabins, without having first smeared their hands and
faces with a composition of tar and cream: which is
found by experience to prevent their attacks. A very
small black G. (Culex reptans), with transparent wing,
and the legs marked by a white bar, is particularly
troublesome in marshy districts during the evening, by
the creeping motion on the skin of the face, &c. To be
above we may add, that the mosquito (Culex measure). trousesome in marshy districts during the evening, by its creeping motion on the skin of the face, &c. To the above we may add, that the mosquito (Culex mosquib), so much dreaded by all who visit our Southern States and the West Indies, where its bite seems to operate with peculiar malignity, is a species of G. which derives ad-ditional vigor from the warmer and moister atmosphera.

—See Mosquito.
Ginat'-flower, n. (Bot.) See Oprays.
Ginath'-flower, n. (Zobi.) The lateral parts or rami of the mandible or lower jaw of birds, which are joined to the cranium behind, and meet in front at a grant or less angle.
Digitized by GOO

mation of the check or upper jaw.

Gna thetheea, n. [Gr. gnathos, and thake, a sheath.]
(必成) In birds, the horny or cutaneous integument of

Gant'-snapper, n. A bird that lives by catching

Gnat'-mapper, n. a one man and guats; one who places too much importance on little things;—so called in allusion to Matt. xxiii. 24.

Gnat'-worm, n. The larva of the gnat.

Gnav, (nds.), v. a. [A. S. gnagan; Ger. nagen, to est away, to corrode; Gr. knazin, to scrape.] To bite off by little; to bite or serape off with the fore-teeth; to wear away by biting; to est by biting off small portions of food with the fore-teeth.—To bite in agony or rage.

"He comaly fell, and dying gneed the ground."—Dryden.

"To waste; to fret; to corrode.

To waste; to fret; to corrode.
 n. To use the teeth in biting.

d men that fishes guassed upon." — Shaks.

-To .. -v. n. To ... '' A thouse ''- n

"A thecasand men that fishes graesed upon." — Baks.

GRAW'Er. n. One who, or that which, gnaws or corrodes.

GRAW'Ers, n. pl. (Zold.) See RODENTIA.

GRAW'SING, p. a. Biting off by little and little; corruding; enting by slow degrees.

Graesias, (nice.) n. [Ger. gnaiss.] (Geol.) A rock having the same constitution as granite, but with the mica more or less in layers. It is often described as stratified granite. Syenitic gneiss contains horablende in place of mica, and the other general variations in the composition of granite apply also to it. As the mica is easily cleavable, a gneiss rock breaks most readily in the direction of the mica layers, and thus affords slabs. It is much used both as a building material and for flagstones. Extensive quarries are opened near Haddam and at Levanon, Count, and at Munson and many other places in Mussachusetts. G. graduates into mica schitt, q. v.

Graeis'sold, a. Same as Gneissold.

Gmeis'sile, a. Same as Gwrssolb.

'meis'sold, a. [Ger. gasia, and Gr. eides, a form, an
appearance.] Resembling gasias; having some of the
properties or characteristics of gasias.

'meis'some, a. Having the general structure of gasias.

Gme'sem, a town of Prussia, duchy, and 30 m. E.N.E.
of Posen. G. contains a theological seminary, and is
the see of the archbishop-primate of Prussian Poland.

Pha 8.29.

the see of the archbishop-primate of Prussian Poland. Pop. 8,250.

Gnetacese, (n-taise.) (Bot.) The Jointed Firfam, an order of plants, class Gymnogens.—Diao. Repeatedly branched jointed stems, simple net-veined leaves, 1-celled anthers opening by pores, and the membrane next the nucleus protruded.—They consist of small trees or shrubs, with opposite leaves, sometimes small and scale-like. They occur in both tropical and temperate climates. Their properties and uses are unimportant. There are but 15 species in 2 genera.

Gnome, (nōme.) n. [Fr., from Gr. gnōmōn, one who knows, hence a guardian, from gignās kein, gnōnai, to knows.] (Mediseral Myth.) The name given by cabalistic writers to one of the classes of imaginary beings which are supposed to be the presiding spirits in the mysterious operations of nature in the mineral and vegetable world. They have their dwelling within the earth, where they presides specially over its treasures, and are of both sexes, male and famals. The former are often represented in the form of misshapen dwarfs, of whom the well-known "Rübezahl," or "Number-nip," of German legend is a familiar example. Pope, in the Rupe of the Lock, and Darwin, in the Locus of the Plants, have drawn upon the more pleasing associations of this curious branch of mythology. more pleasing associations of this curious branch of mythology. -A small and ill-favored person; a dwarf; a person of

outlandish appearance; a misshapen being.

Bome. [Gr, a sentence or opinion.] (Lit.) A short snoeme. [Gr. a sentence or opinion.] (Lit.) A short sententious saying, conveying some maxim or moral spreecpt. In the Bible, the Proverts of Solomon and many of the sayings of Christ afford examples of the G. The gnomic poets are those Greek poets whose remains consist chiefly of G., short sententious precepts and reflections. The principal writers of this class are Theognis, Solon. Tyrtuis, and Simonides.

Solon. Tyrtun, and Simonides.

Gnomologie, Gnomological, a. [Fr. gnomologing, Gr. gnōmologikas.] Of or belonging to a collection of maxima, reflections, &c.

Gnomon, (no mon,) n. [Sections, &c.

Gnomon, (no mon,) n. [Sections.] (Dialling.) The style or pin of the sun-dial, which by its shadow indicates the hour of the day.

(Astron.) A rod or pillar from whose shadow the altitude or position of the sun may be determined. G. were probably the first astronomical instruments; and they appear to have been much in use among the were prountly the first astronomical instruments; and they appear to have been much in use among the Exprisans the Chinese, and even the Peruvians. It is evident that observations of this kind cannot give the sun's altitude with much exactness. The shadow is hever so well defined that its limits can be ascertained with astronomical resident handles the observations. with astronomical precision; besides, the observation requires to be corrected for parallax refraction, and the sun's semi-diameter—elements which can only be determined by means of instruments of a very superior description to the G., and which, consequently, render the

m.) That portion of the larger of two parallelograms which remains uncovered, when a smaller, similar parallelogram has been superposed upon it, in such man-ner that they shall have one angle in common.

of that they shall have one angle in common.

G. of a globs, the index of the hair circle.

Semen'le, Gnomon'leal, a. [Fr. gnomonique;
Gr. gnomonikos.] Of, or belonging to, the art of dialling.

Semen'le Frojec'tion, n. (Math.) That projection of the circles of any sphere in which the centre of the sphere is the point of sight, the principal plane being taugent to the surface.

Gnathi'tis, n [Gr. gnatios, the jaw.] (Med.) Inflammation of the cheek or upper jaw.

Gnathotheea, n. [Gr. gnathos, and thake, a sheath.]

Gno'monist, n. One versed in the construction of

Gnomonol'ogy, n. A treatise on the art of con structing dials Gmostic, (nos'tic,) n. One of the sect of Gnostics. See

Chostics.

—a. Pertaining to the Gnostics, or their teachings.

—a. Pertaining to the Gnostics, or their teachings.

Gnosticisms, n. The system of philosophy or doctrine taught by the Gnostics.

Gnostics, (nds'tiks,) n. pl. [Fr. gnostiques; L. gnosticus; ur. gnosticus, versed in knowledge, from gnosticus, to know.] (Eccl. Hist.) Gnostics is a common name applied to various sects, which, in the early history of the Church, sought to incorporate the teachings of heathen philosophers with the system of Christianity. Their doctrines were very various, so that it is difficult to give any general account of their principles. According to some, they derive their doctrines from the Alexandrian philosophers; according to others, from the Jews, or from the Orientals. There can be little doubt that each of these sources contributed to build up the fabric of from the Orientals. There can be little doubt that each of these sources contributed to build up the fabric of Gnosticism, some sects taking from one, and others from another, and some, perhaps, from all the three. The spotle Paul, even during his ministry, complains of atempts being made to ingraft Jewish and heathen customs and opinions upon the Christian faith; and hence Gnosticism is frequently traced back to this early period. There can be no doubt that the sect became very powerful in the Church soon after that time; and their opinions exercised a great influence upon Christian theology. One of their leading principles seems to have arisen from their inability to account for the existence of evil in the world. They could not see how God, as all-wise, one of their leading principles seems to nave arisen from their inability to account for the existence of evil in the world. They could not see how God, as all-wise, powerful, and good, could allow evil to exist at all; and they were led to conclude that matter must contain within itself the principle of evil. Hence they came to the conclusion that God had nothing to do with the creation or sustenance of the world, but that he created two beings, called Æons, or emanations, from which sprang other sons, and others from these, an innumerable host, the lower in descent being always less perfect than those above them. One of these sons was Demiurgus, who created this world, and was the God of the Old Sestament. To counteract the evil that existed, God sent Christ, one of the highest sons, into the world, to restore man to the knowledge of himself. They had very inferior notions of the character of Christ, and denied that he suffered death, or that he really underwent the sufferings recorded of him. They did not believe in the resurrection of the body, deeming it too gross for a the sufferings recorded of him. They did not believe in the resurrection of the body, deeming it too gross for a higher destiny. Their beliefs influenced their lives in two very different ways, leading some to mortify the fleeh, in order to bring themselves into closer communion with God, and leading others to give way to every sinful lust and passion, in order to show their total disregard of the body. In process of time they split into various divisions, differing widely from each other both in faith and practice. Among the principal Gnostic sects may be mentioned the Nicolaitanes, Saturnines, Cerinthians, Basilidians, Valentinians, Ophites, Carpocratians, Antilactes, Docete, Marcionites, Tationista, and Bardesanists. The system of Gnosticism disappeared about the 5th century.

Bardeamists. The system of Gnosticism disappeared about the 5th century.

Gen., (gnon,) n. [Ger.; Hottentot nju.] (ZoSl.) The Anthope Gnu of Linneus, a large bothe antelope, which is found in herds in the arid deserts of S. Africa. This singular runninant quadruped, of which three species are known, appears at first to be a monatorus being, compounded of parts of different animals. Its general color



Fig. 1168. — THE ANTELOPE GNU.

is a deep umber-brown, approaching to black. It is 4 ft. is a deep umber-brown, approaching to black. It is 4 ft. in height, having the body and crupper of a small horse, and is covered with brown hair; the tail is furnished with long white hairs (like that of a horse), and on the neck is a beautiful flowing mane, white at the base, and black at the tips. Its horns, approximated and enlarged at the base, descend outwardly, and turn up at the point; the muzzle is large, flat, and surrounded by a circle of projecting hairs; under the throat and dewlap is another black mane; and the legs are as light and slender as those of a stay.

mental movements; and applied further, in a figurative sense, to all things sentient or living.—To walk; to move step by step;—in contradistinction to running or riding.

"I will only so through on my feet."—Num. xx. 19.

To proceed in a train, or in consequences; to be carried on; to succeed; to fare; to be in a good or ill state; to operate; to turn out; to eventuate; as, everything goes

" I think as the world goes, he was a good sort of man enough

To proceed; to pass in any manner or to any end; to have effect; to avail; to be of force and value; to have a use or currency; to contribute; to conduce; to tend; to concur; — often preceding to or into.

"Whether the cause goes for me or against me, you must pay me the reward." — Watts.

To apply one's self; to have recourse to; to be about to do; to undertake; us, to go to law, to go into business.

To proceed by a mental operation; to pass in the mind, or operate by mental action or imaginative effort;—
often before over or through; as, to go over accounts, to go through a book.
"I go over some parts of this argument again."-

-To be pregnant, or in a state of pregnancy; to be with young, or in the family-way; as, she is six months gone. -To leave; to depart; to pass or move away; — in contradistinction to stay and come.

" Go, poor devil; get thee gone; why should I hurt thee?" Stern To be expended, or wasted; to be loosed, or released; to decline; to tend towards decay, death, or ruin; to be lost; to decease.

" By Saint George, he's gone !
That spear-wound hath our master sped.

-To extend; to reach; as, that road goes to Baltimore; a married man's hand is always going into his pocket; frugality goes a great way towards westth.

"No man's knowledge here can go beyond his experience." Looks.

"No man's knowledge here can go toyoun us vayou. (The senses of the word go are very various and somewhat indistinct; its general characteristic is motion or progression, and in its most exact definition expresses a place in opposition to come. This is passage from a place, in opposition to come. This is frequently observable even in figurative phrases; thus, we say, things that go before and that come after; to-day

goes, and to-morrow comes.)

Go to, come: begin; start; move:—an exhortative expression, used chiefly in a scornful sense.

"Ge to, ge to, thou art a foolish fellow."—Shake.

To go about, to set oue's self to or about anything : to attempt; to endeavor; to essay.

" He went about his father's business." - Milton

(Naut.) To tack; to move a ship's head round; as, to go about in stays. — To go aside, to err; to deviate from the right course.

"If any man's wife go seids, and commit a trespass against him." — Num. v. 12.

To go between, to interpose; to act as mediator; to attempt to reconcile or adjust; as, to go between husband and wife is a thankless action. — To go by, to pass away unnoticed; to omit.

"What's that to us? The time goes by-

To observe, as a rule; to follow, as an example.

"The violence of the symptoms are a better rule to go by." Sharp.

To go donon, to be swallowed, or accepted.

"If he be hungry, bread will go down." — Locks.

"If he be hungry, bread will go down."—Locks.

To be received, without choice or power of objection; as, that tale will not go down.—To go fur nothing, to be valueless in effect; to have no meaning or effications result: as, his denial goes for nothing.—To go hard with, to cause trouble, difficulty, or danger to; to occasion trial or misfortune to; as, his death went hard with his wife.—To go in and out, to do the husiness of life.—To go into or unto. (Scrip.) To have sexual commerce with.—To go on, to proceed; to move forward; to advance.

"I wish you health to so on with that noble work." - Berkeley To be fitted or put on; as, this hat will not go on my head.—To go out, to enter upon any undertaking or expedition; as, to go out on an affair of honor, or duel.

"There are other men fitter to go out than L"— Shake.

To expire; to become extinct; as, the fire has gone out.
" Art after art goes out, and all is night." — Pope.

To become public; to be circulated abroad; as, the scandal goes out to the world.— To go over, to revolt; as, numbers have gone over to the enemy.— To peruse; to study; to read; as, I seem over the book and found it rubbish.— To examine; to review; to criticise; as, to go over the items of an account.— To think over; to study; to read; as I went over the book and found rubbish.—To examine; to review; to criticise; as, go over the items of an account.—To think over; dwell upon mentally; to cogitate upon; as, I will over the matter, and let you know my decision. change sides; to pass from one party to another; as, he has gone over to the Democrats.—To cross from one side to the other; as, to go over a lake.—To go through, to perform thoroughly; to perform; to accomplish; to effect: to execute.

"The Karl of Autrim had not steadiness of mind enough To go through with such an undertaking." — Clarendo

To suffer; to endure; to bear: to undergo; as, to go through a protracted sickness.—To go under, to be known under a specific appellation; as, to go under the name of Socialists.—To be sunk or submerged; as, he went under the ice and was drowned.—To go of, to die; to decease; to depart from life.

"I would the friends we miss were safe arrived, Some must go of." — Shake.

To quit duty; to temporarily leave a post or position.

The leaders having charge from you to stand,
Will not go of until they hear you speak. These

To go upon, to take and follow as a leading rule or principle.

his supposition I have gone upon through those papers." Addison.

To let go, to permit to depurt; to release hold of; to

to tex go, to permit to depart; to release hold of; to allow to leave; as to let go a prisoner.

Go, r. a. To accept or take, as participating in an enterprise; to become responsible for; to fill or enjoy a part in.

"I'll go his halves."—Rebelais. (Translated.)

To go it, to act in a wild or convivial manner; to carry

on; to be uproarious or reckless; to become pugnaciou "Ge & Maria; I'll hold your bonnet." — Pierce Egen.

To proceed: to advance; to make progress. (Used colloquially.) — To go one's soay, to depart; to move on; to set forth; as, he went on his way rejoicing.

. An incident, event, circumstance, or occurrence.

(Used as slang.)
"This is a pretty go." — Dickens.

"This is a pretty go."— Dickens.

The prevailing mode, fashion, or custom; as, snobbery is quite the go at Washington.

Uproarious mirth; joilification; as, we had a great go. (Used as a colloquialism.)

A glass of spirits taken neat, or without water; as, a go of gin. (Used extensively in London, Eng.)

Gea, a Portuguese district of India, prov. of Bejapoor, on the W. coast; area, 1,100 sq. m. Prod. Pepper, rice, betel-nuts, cocos-nuts, and sait. Pap. 345,500.

Go'A, a maritime city of India, chief city of the above district, and formerly capital of all the Portuguese settlements in India, on an island of the same name, at the mouth of the Mandona, 250 m. 8.8.E. of Bombay: Lat. 150 30 Vn. Lon. 74 ° E. G. consists of two cities.

Old Goa and New Goa. The old city, now almost deserted, contains some splendid churches and other specimens of architecture. New Goa, or Panjim, at the serted, contains some splendid churches and other specimens of architecture. New Goa, or l'anjim, at the mouth of the river within the forta, is the residence of the viceroy and of the principal inhabitants. It carries on an inconsiderable trade with Portugal, China, and the coast of Africa, and the place is rapidly going to decay. Prop. unascertained, but small.

\*\*Description\*\* (Forting and Served, gadd, a sting; Icel. gadd, a plin, peg; Scot. gadd, the point of a spear; O. Ger. garf, a prick, from garfigan, to impel. to drive.] A pointed instrument used to stimulate a benat to move faster.

\*\*Off in his harder'd hand a goed he bears." \*\*\*—Pope.

"Off in his harden'd hand a good he bears."—Pope.

e. a. To drive with a goad :— hence, to urge forward; to incite; to excite; to stimulate; to instigate.

to incite; to excite; to stimulate; to instigate.
"Temptation that doth good us on to sin in loving virtue." Shaks.
Goal, n. (Mining.) See Goa.
Goal, gol.) n. [Fr. gaul., a pole, from Lat. vallus. a pole or stake; W. gwyal, a goal, a mark.] The point set to bound a race, and to which racers run; any starting-tost: the mark. post: the mark.
"Hast thou beheld, when from the goal they start."

The end aimed at; the end or final purpose; the object

"Hast thou beheld, when from the geal they start."—Dryden.

"The end almed at; the end or final purpose; the object attained.

"Good... the final goel of ill."—Transpoon.

Goal parra, a district of British India, in the presidency of Bengal; Lat. 250 40 to 260 31' N. Lon. 899 42' to 910 8' E. Area, 3,500 sq. m. Frad. Cotton, tobacco, sugar, and mustard. Pop. 440,000.

Goar, St., a fortified town of Prussia, 15 miles from Coblentz. It is seated on the W. bank of the Rhine, under the stupendous rock and castle of Rheinfels, with which it surrendered to the French in 1794. On the opposite side of the river is the small town of St. Goarnhausen, and on a mountain near it is the strong castle called Katz. St. Goar has a considerable trade in wines and hides. Pop. 2,000.

Goar, B. Same as Gorr, q. v.

Goat, (got.) m. [A. S. gat, geat; L. Ger., D., and Fris, get: Ger. griss: Goth. gatics, a young goat: Heb. geti., a kid, from gddd, to cut, to crop. See Kid.] (Zoil.) The distinguishing characters in the genus capra (a Linnsean group of Ruminantia, which includes all the species of goats) are,—that the horns are hollow, turned upwards, and annulated on their surfaces; that there are eight cutting teeth in the lower jaw, and none in the upper; and that the male is generally bearded. In its domestic state the goat is found in almost every part of the globe, bearing the extremes of heat and cold, and differing in size and form according to various circumstances; the horns generally having a curvature outwards towards the tips. Buffon's account of this animal is strikingly descriptive. "The goat," says he, "is superior to the sheep both in sentiment and dexterity. He approaches man spontaneously, and is easily familiarized. He is sensible of caresses, and capable of a considerable degree of attachment. He is stronger, lighter, more agile, and less timid than the sheep. He is a sprightly, capriclous, wan-

capricious, wan-dering, wanton animal. It is with much difficulty that he can be confined, and he loves to retire into solitude, and to climb, stand, and even sleep, on rugged and lofty eminences. He is robust and easily nourished, for he nourished, for he eats almost every herb, and is injured by very few. His loddly temperament, which in all animals has a great influence



Fig. 1169.
THE COMMON GOAT, (Capra hircus.)

on the natural disposition, is not essentially different from that of the sheep. These two animals, whose internal organization is almost entirely similar, are nourished, grow, and multiply in the same manner; and their diseases are the same, excepting a few to which the goat is not subject. The goat fears not, like the sheep, too great a degree of heat. He cheerfully exposes himself to the sun, and sleeps under his most ardent rays without being affected with the vertigo or any other inconvenience. He is not afraid of rain or storms; but he appears to feel the effect of severe cold. The inconstancy of his disposition is marked by the irregularity of his actions. He walks, stops short, runs, leaps, approaches or retires, shows or conceals himself, or flies off, as if actuated by mere caprice, and without any other cause than what arises from an eccentric vivacity of temper. The suppleness of his organs, and the strength and nervousness of his frame, are hardly sufficient to support the petulance and rapidity of his natural movements." It is difficult in this grenus to determine what are species and what are varieties. The common or domestic goat (Capra Mircas) has existed as a domestic animal from the earliest ages; it is frequently mentioned in the books of Moses, and formed a large portion of the flocks of the patriarchs. The goat thrives under the care of man in the hottest parts of India and Africa, and in the northern districts of Scandinavia. Amid such diversity of circumstances, considerable diversity of breeds might be expected, and accordingly, besides the common variety, there are the Syrian goat, the Angora goat, the Captmere goat, — all remarkable for the greater length and fineness of their hair; a beautiful dwarf variety from West Africa, called the Guinca Grat, and many others. Some of these, as the Syrian goat, (Fig. 1170,) have large pendent ears. In nothing does variation seem more readily to result from the influence of climate and other circumstances, than in the quantity and quality of the other circumstances, than in the quantity and quality of the hair, and in the relative abundance of the two kinds of it, both of which are well exhibited in the common goat, the long, soft hair, and the softer woolly hair be-neath it. But in many other respects, also, the domestic goat is subject to variation, more than perhaps any other domestic quadruped except the dog. The uses of tic goat is subject to variation, more than perhaps any other domestic quadruped except the dog. The uses of the goat are numerous. The flesh is good; that of the kid, or young goat, is in most countries esteemed a delicacy. The milk is very rich and nutritious, more easy of digestion than that of the cow, and is often useful to construct the perhaps. consumptive patients. Some goats yield as much as four quarts of milk daily, although the average quan-tity is more nearly two. Both cheese and butter are made

cheese and butter are made of goat's milk; they have a peculiar but not disagree-able flavor. Goat's milk is still very much used in Syria and other parts of the East, as it was in the days of the patriarchs. The skin of the goat was early used for clothing, and is now dressed as leather for many uses, particularly for making gloves and the fluer kinds of shoes. The hair, which may be ad-The hair, which may be advantageously clipped annually, is used for making ropes which are indestructible in water, and for making wigs for judges, barristers, and ecclesisatical dignitaries. For the latter purpose, the hair of white goats is used. The use of the hair or wool



The use of the hair or wool of certain varieties of goat HEAD OF STRIAN GOAT. for making valuable fabrics is noticed in the article ANGORA GOAT. The horns aroused for making knife-handles, &c., and the fat is said to be superior to that of the ox for candles. The Rocky Monatain Goat (0. v.) ranks on a par with the Cashmere goat for the excellence of its fleece;—but as it is now considered an antelope, it results that the genus Capra is not represented in America. The origin of the domestic goat is with greatest probability traced to the Egagre (C. egagrus), the Persian Paseng. See Egagra.

Goatee', s. That part of a man's beard which depends from the lower lips or chin, resembling the beard of s goat.

at'herd, n. One whose duty is to attend goats.

Goat'ish, a. Resembling a goat in any quality; of a rank smel.
 Goat'ishly, adv. In the manner of a goat.
 Goat'ishly, adv. In the manner of a goat.
 Goat'ishness, n. Quality of being goatish; lustfulness.
 Goat Island, in Rhode Island, a small island and light-house in Newport harbor in front of the town. It

ingn-house in Newport narior in front of the town. It exhibits a fixed light.

Goat Island. See Niagara Falls.

Goat-milker, n. (201.) Same as Goat-sucker, q. v.

Goat-moth, n. (201.) See Cossus.

Goat's-beard, Goat'-marjoram, n. (80.) See

TRAGOPOGON.

TRAGOPOGON.

GORT'S'-FUE, n. (Bot.) See TEPHROSIA.
GORT'S'-SHOPEN, n. (Bot.) See ASTRAGALUS.

GORT'S-SHOPEN, n. (Bot.) See ASTRAGALUS.

"Be thou a spirit of bealth, or gobtin dammed."—Shake.

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"Be thou a spirit of bealth, or gobtin dammed."—Shake.

"Be thou a spirit of bealth, or gobtin dammed."—

nally streaked with black. Its notes are three, and have a fancied resemblance to the syllables whip-passwer? and hence its name. It begins its song soons after susset, and continues till late at night; then remains silent till near the dawn, when it resumes and continues hill sunrise. During the day the whippoorwill sleeps upon the ground, or on failen trunks of trees, or on low branches, and may often be approached to within a few feet before it flies. It is said that it always sits with its body parallel to the branch on which it alights, and never across it. Its eggs are always two, short elliptical, much rounded, and nearly equal at both ends; the color greenish-white, spotted, and blotched with bluish-gray and light-brown. These are laid may, on the bare ground or on dry leaves, and in the most secluded parts of the thickets. The Cluck-williwidow (Caprimulyan Carolinemis), of the Atlantic and Gulf States, much resembles the preceding, but the bristles of its bill are furnished with lateral flaments, and the top of the head is reddish-brown, streaked with black, and the terminal two-thirds of the tail, except the four central feathers, rufous-white. The Chuck-williwidow, whose notes seem exactly to articulate these words, commences its singular call generally in the evening, soon after sunset, and continues it, with short occasional interruptions, for several bours. This note, or call, instantly attracts the attention of a stranger, and is strikingly different from that of the whippoorwill, it nound and articulation it seems plainly to express the words which have been applied to it (Chuck-will-widow), pronouncing each syllable leisurely and distinctly, putting the principal emphasis on the last word. In a still evening it may be heard at the distance of nearly a mile, the tones of its voice being stronger and more full than those of the whippoorwill, they butter his with much greater rapidity. The flight of this bird is low, skimming about at a few feet above the surface of the ground, frequently settling

name.

beave, (go-ar',) Le Grand, and Le Pritt, two towns of Hayti; the latter is situated on the Bay of Gonaives, att. 48 m. W.S.W. of Port-au-Prince, and the former 7 miles

further E.

Gob, n. [Gael.] A small piece; a lump; a monthful; a
minor quantity; as, a gob of money. (Vulgar.)—The
mouth; also, the saliva issuing therefrom.
(Mining.) The waste part of the workings of a mine;
(called also goaf.)
To work the gob or goaf. (Mining.) To remove the
mineral pillars that support the roof of a mine, and replace them with props.
Gobain, St., a town of France, dep. Aisne, 10 m. of
Laon. It is noted for its manufacture of looking-giasses.
(See Glass.) Pro. 1.615.

Laon. It is noted for its manufacture of looking-giases. (See Glass.) *Pop.* 1,615. #ob/bet, n. [O. Fr. gobeau.] A mouthful; a small plece; a lump; as much as can be swallowed at once.

"Full of great lumps of fissh and gobbets raw."

—v. a. To swallow at a mouthful; to gulp. (Vulgar.) Gob'bing, w. (Mining.) The refuse thrown back into the excavations remaining after the removal of the coal.

iob'ble, v. a. [Fr. gober, to gulp down, from Celt. gob, the mouth.] To swallow with open mouth or greedily: to swallow hastily, or in large pieces.

"Supper poblics up in haste." — Swift. Gob'ble

n. To make a noise in the throat, as a turkey. " Fat turkles gobbling at the door." - Prior.

"Pat tarkies gebbling at the deer."— Prior.

Gob'bler, n. One who swallows food with rapidity; a
greedy enter; a gormandizer.— A turkey-cock.

Gobelin Tapestry. See Tarzerr.

Go'-between, s. One who interposes between two parties; a mediator; a broker. (Generally in a bad sense.)

Go'bi, or Cont, a range of country in Central Asia, comprising a large part of Chinese Turkestan and Mongolis.

Extent, 1,300 m. in length, with a breadth varying from
400 to 800 m. Mostly a sandy desert, interspersed with
a few cases. Lat. 40° to 50° N., Lon. 90° to 120° E. In
1874-6 remains of ancient cities were discovered, but as
vet little attention has been given them.

1874—6 remains of ancient cities were discovered, but as yet little attention has been given them.
Gobbidse, n. pl. (2081.) A family of Acanthopterygoos fishes, including the Blennies, Gobies, &c. They may be recognized by the slenderness and flexibility of their dorsal rays. They have an uniformly wide intestinal canal, and no pyloric caca.
Gobbiet, n. [Fr. gobblet, from gob.] A kind of cup or drinking-ressel, usually of glass, containing as much as may be taken at one large draught or swallow.

Crown high the gobiete with a cheerful draught." - Dry Gob'lin, n. [Fr. gobelin, probably from Gr. kebelet, an arrant knave.] A demon; an evil spirit; a frightful phantom; a walking spirit; a gnome; an elf.
"Be thou a spirit of health, or goblin damaed."— Shake.

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flinging off; a thrusting away or aside; a passing without notice; as, he gives his old friends the go-by.

Ge'-cart, n. A mechanical contrivance designed to sup-

Go-cart, n. A mechanical contrivance designed to support young children in their first attempts to walk.
God. n. (A. S., O. S., Frin., D., and L. Ger.; Dan., Swed., and Icel. gub; Ger. gut; Goth. guth; Pers. khodā; Afghan. chudā; among the Sannotetes of Russia, kudā; Jilind. khoodā; probably from Sansk. guth, to conceal, whence gidha, a secret, a mystery. The A. S. word signifies at once God and good; and the association pervades the Teutonic tongues.] The Good; the Author of all goodness; the Supreme Being; the Eternal and Infinite Spirit; the Creator, and the Soversign of the Universe; the Alnees, the Supreme Boing; the Eternal and Infinite Spirit; the Creator, and the Sovereign of the Universe; the Almighty. The belief in the existence of some being or beings superior to man, on whom he is dependent, and who demands his worship, is so universal that it may almost be said to be an instinct of our nature. Those who worship many gods are termed polytheists; those who worship one only, monotheists. The department of knowledge which treats of the being, perfections, and government of God, is called theology. Many attempts have been made, by arguments, to prove the existence of one Supreme Being, all-powerful, wise, and good, through whom everything exists. Some of these arguments are d priori, others are d posteriori. "When we argue from the ideas we have of immensity, eternity, necressry existence, and the like, that such perfections can reside but in one Being, and thence conclude that there can be but one Supreme God, who is the cause and author of all things,"—this is an argument d priori. When, on the other hand, we argue from the order and regularity that we observe in the objects of nature around us, that there is evidence of design and of a designer, this is an argument d posteriori. Each of around us, that there is evidence of design and of a designer, this is an argument d posteriori. Each of these modes of argument, however, is incomplete of itself, and it is only by a combination of the two that we can expect to be able, if indeed the imperfection of our present faculties will ever admit of our being able, to prove by arguments the existence and attributes of God.—A false god; a heatien delty; an idol; a feitsl.—"Land of lost gods and godlike men."—Byron.

—A compact a provenium a ruler; a magistrate or indee.

A prince; a sovereign; a ruler; a magistrate or judge an angel. (Chiefly of scriptural application.) an angel.

hou shalt not revile the gods, nor curse the ruler of thy p-Ezed. xxii. 2.

Any person or thing held in over-exalted estimation, or defied and honored as the chief grad: as he makes a d and honored as the chief good; as, he makes a god of his belly.

"Lewes a gentleman, and makes a god of such a cuillon." Shake.

pl. A term colloquially used to denote the habitust.

pl. A term colloquially used to denote the habitust or frequenters of the gallery in a theatre. especially in Ireland; as, the gods hissed him off the stage. (Cant.)

Gedal'ming, a town of Surrey in England, on the Wey, which is here crossed by a bridge, 5 m. S.S.W. of Guildford. Mans, f. Hosiery, blankets, worsteds, cotton cloths, stockings, and gloves, with a considerable trade in hops. coal, timber, and bark. Pop. 6,350.

Geda'wery, a river of India, rising on the E. side of the W. Ghauta, abt. 70 m. N.E. of Bombay. At Rajamundry in the N. Circars, it divides into two streams; the left flowing into the Bay of Bengal in Lat. 109 4; N. Lon. 82° 23° E., and the right in Lat. 16° 18' N., Lon. 81° 49' E. The entire length of the G. is about 900 m. 10° 46' E. The entire length of the G. is about 900 m. God'child, s. A child in a godly or spiritual sense; one for whom a person becomes sponsor at baptism, and solemnly promises to see it educated as a Christian. (but very seldom does so.) Leaves a gentleman, and makes a god of such a cultion

(but very seldom does so.)
God'daughter, (daw'ter,) n. A female for whom one becomes sponsor at baptism.

God'dess, a. A female god or deity; a heathen deity

'A temple . . . built to the gracious coddess Clemency."-Dryden -In hyperbole, and the language of love, a woman of superior charms, or excellence.

She moves a goddess, and she looks a que

Gederich, (god'ritch,) a town, port of entry, and the seat of justice of Huron co., in the prov. of Ontario, on Lake Huron, abt. 62 m. N. N. W. of London; im-

mense salt beds are found near here.

Ged'father, n. [A.S. god and fæder.] A man who becomes sponsor for a child at baptism.

-e. a. To act as a godfather.
God'frey, or Boullow,
duke of Lorraine and first Christian king of Jerusa-lem, was B. at Bézy, near Nivelle. He served while young with high distinc-tion in the armies of the emperor Henry IV.; and when near the close of the when near the close of the lith cent all W. Europe was roused to the rescue of the Holy Land from the infidels, the fame of G. was high throughout Chris-tendom for piety and moral excellence, as well as for knightly process. as for knightly prowess. He entered fervently into the great movement of his age, and was confessedly the first in rank and worth among the chiefs of the first crueade. He not only signalized himself by valor among the valorous, and by enthusiasm among the Fig. 1171.

enthusiastic, but he show-ed also disinterestedness,



- ARMOR OF GOD FREY OF BOUILLON.

probity, skill, and prudence, which were of a higher and rarer order. He maintained the most complete dis-cipline among his division of the Christian army, which he brought safely to the appointed muster-place beneath the walls of Constantinople, in the winter of 1046. By his sagacity and firmness he prevented hostilities break-ing out between the host of the crusaders and the Greek ing out between the host of the crusaders and the Greek emperor, Alexius Comenus; and in the spring of 1007. Godfrey led the Frankish nations into Asia Minor, to the siege of the capital of the Turkish suitan of Nice. This city was captured after a siege in which the per-sonal valor of Godfrey, as well as his generalship, was frequently displayed. He was tall, well-proportioned, frequently displayed. He was tall, well-proportioned, and of such remarkable strength and dexterity in the use of his weapons, that he is said in more than one encounter to have cloven his fee by a single sword-stroke from skull to centre. After Nice was captured, the Crusaders marched forward, and defeated a Turkish army in the great battle of Dorylseum. They reached Antioch, in Syria, late in the winter of 1097. The city was captured after an obstinate resistance; and the weakened army of the victors was in turn besieged in its walk by an innumerable host of the Molammedians. was captured after an obstinate resistance; and the weakened army of the victors was in turn besieged in its wa.is by an innumerable host of the Mohammedans. After enduring much suffering and loss, Godfrey led the Crusaders in a sudden sortie upon their enemies, which was completely victorious. The enthusiasm caused among the Christian army by the supposed discovery of the relic of the Holy Lance, was one great cause of this success. It was not till 1099 that the Crusaders reached Jerusalem; and their numbers were then reduced by the sword and by disease to only 1,500 horse and 20,000 foot fit for service. The Mohammedan garrison was far more numerous, and the city was formidably strong. But the seal of the Crusaders was indomitable. After a siege of forty days, a successful assault was made, and "on a Friday, at three in the afternoon, the day and hour of the Passion, Godfrey of Bouillon stood victorious on the walls of Jerusalem." (Gibbon). — When the Crusaders were sated with carnage and pillage, they deliberated on the important subject of choosing a ruler of their conquest; and, with the universal consent of the assembly, G. was hailed king of the Christian kingdom of Jerusalem. He showed his humility and piety by refusing to wear a golden diadem in the city where his Saviour had been crowned with thorns, and he desired to be called only Defender and Baron of the Holy Sepulchre. During his short reign he gained several military advantages in the field against the Mohammedans. expecalled only Defender and Baron of the Holy Sepulchre. During his short reign he gained several military advantages in the field against the Mohammedans, especially at Ascalon, where he completely routed a large army which the sultan of Egypt had sent o reconque Jerusalem. G. deserved still higher honor for his exertions in establishing order and justice in his dominions, and in compiling a code of laws for his subjects. Unhappily for the infant kingdom, he D. within a year from his accession.

God'frey, in Illinois, a post-village of Madison co. iod ha'ven, or Godhavn. (god'huwn.) a town or settle-ment of Greenland, on Disco Island, in Davis Strait; pop. abt. 250. God'head, n.

iod head, n. [God and A. S. had.] Deity; divinity; divine nature or essence.—A personal deity; a god or

The nymphs and native godlesde yet unknown.

-God; the Delty; the Supreme Being; the Almighty. God'hood, n. Divine nature or essence; delty; go ship. **God'less,** a. Having no reverence for God; implous

irreligious; ungodly; wicked; atheistical; having no belief in the existence of God. "Godless men and rebellious times."- Drude

Godlessly, adv. In an impious manner; irreligiously; atheistically.
Godlessness, n. State of being godless, atheistical

God'like, a. Resembling God; partaking of the divine

essence.

Of superior excellence; as, "godlike reason."—Shaks.
Godlikeness, n. State of being godlike. 
Godlity, adv. Piously; uprightly; religiously. (a.)
Godliness, n. Quality of being godly; piety; belief
in God, and reverence for his character and laws; a re-

ligious life; the system of Christianity.

'Cleanliness is indeed next to godliness.' God'ling, s. A little deity; a diminutive god.

"The puny geddings of inferior race."—Dryden.

God'ly, a. [A.S. godic.] Reverencing God and his character and laws; plous; devout; holy; religious; righteous; na, godily man.—Characterized or springing from a regard for God; as, a godly life.

ing from a regard for God; as, a godly life.

—adv. Righteously; religiously; piously.

God'mogtheer, a. A woman who becomes sponsor for a child at baptism. See Godpather.

Godown', n. [From Malay gadang.] In the E. Indies, a depot, or warehouse.

Go'doy, Manutl Dr. Prince of the Peace, duke of Alculia, &c., the favorite and first minister of Charles IV.

of Spuin. B. at Badajoz, 1767. He went to Madrid at an early age, and in 1787 entered the company of body-guards. His beauty, fascinating manners, and amiability, his skill in music, soon made him a favorite at court, and promotion was rapid. He was called to the council of state, and in 1792 succeeded Aranda as first council of state, and in 1792 succeeded Aranda as first minister, and immediately declared war on France. At minister, and immediately declared war on France. At the peace in 1795 he was made a grandee of Spain of the first class, and received the title of Prince of the Peace. His unpopularity increased with his favor at court and his rich reward; but, in opposition to the general desire of the nation, he signed the treaty of St. Ildefonso, offensive and defensive alliance with France, 1770/1776/1776. in 1796. He found all parties and classes in the state

his enemics, and reduced their number to some extent by exile; but he was compelled to resign office in March, 1798. He was soon reinstated, and then married, from political motives, Donna Maria Thereza de Bourbon, al-though he was already secretly married to Donna Jo-sefa Tudo, who retained his affection through life. In 1800 he commanded an expedition against Portugal, at the close of which he received further title and rewards. He published in 1806 a stirring appeal to the people, calling them to arms, without naming the roe; but after the battle of Jena he disavowed his proclamation. The insurrection of Aranjues, in March, 1808, prevented his escape as purposed with the royal family, and on the abdication of Charles he was imprisoned. He was present at Bayonne on the signature of the new abdihis enemies, and reduced their number to some extent present at Bayonne on the signature of the new abdi-cation, and he accompanied the royal family to Mar-seilles and Rome. He had lost everything, and lived only on the bounty of his friends. On his wife's death he avowed his marriage with Josefa Tudo; settled at Paris in 1835, and p. there 1851.

Godroom', n. [Fr. godron.] (Arch.) A kind of inverted fluting used for ornament.
God send, n. An unexpected acquisition or stroke of

good fortune, received as coming from God. " Sir, the crown-piece he gave me was a god-se

God'ship, n. Deity; divinity; the rank of a god. O'er bills and dales their godship 

God'-smith, n. A maker of images of false gods, or

Glod'son, n. [A. 8. godsunn.] A male for whom another has been sponsor at the font. "What, did my father's godeon seek your life?" — Shaks.
God'speed, n. Good speed, that is success, good luck, prosperous expedition; as, we hade him God-speed on his journey.

God'speed, n. Good speed, that is success, good luck, prosperous expedition; as, we hade him God-speed on his journey.

God's-peenny, n. An earnest penny.

God's-peenny, n. Gottefriede; Lat. Freuga Deo.]

(Hist.) An institution of the Middle Ages; a means introduced by the Church to check in some measure the hostile spirit of the times, by establishing certain days or periods during which all private fouds were to cease. It seems to have taken its rise about the latter part of the 10th or beginning of the 11th century. At first the Church forbade all fends on those days of the week which were specially consecrated by the death and resurrection of Christ; namely, from Thursday evening to Monday morning, and threatened with excommunication any who transgressed that order. Afterwards the period was extended so as to include the whole of Thursday, the whole of the period from the beginning of Advent to the Epiphany, and certain other times and saints' days. The precincts of churches, convents, and graveyards were also interdicted from any hostile encounters. Though frequently disregarded, there can be little doubt that these enactments were of much use in these troublous times. By degrees the power of the State came to be exerted to promote peace, and these laws of the Church gradually fell into disses.

God'ward, adv. Toward God.

God ward, adv. Towar

1004.
God'winswille, in Georgia, a post-village of Dodge co., on the Southern B. R.
God'wit, w. (Zod.) See Lincon.
Go'er, a. A term applied to a horse, in reference to speed; as, the mare is a good goer.
Goes, (gōōs,) a town of Holland, on the island of S. Beveland, on the Scheldt, 10 m. E.N.E. from Flushing. It has large docks for ship-building, and an active trade in salt, hops, and grain. Pop. 6,500.
Goff. R., [Gr. gophos, stupid.] An English provincialism for a dolt, blockhead, or stupid foolish fellow.
(Games.) See Golf.
Goffer, v. a. Same as Gauffer, v. v.

ism for a dolt, blockhead, or stupid foolish fellow.
(Game.) See Golf.
Goffer, v. a. Same as Gauffer, q. v.
Goffer, v. a. Same as Gauffer, v. a.
Goffer, v. a. Same as Gauffer, d. Gen. x. 2, Magog is
mentioned as one of the sons of Japheth; in Erck.
xxxviii., xxxix., the prophet is told to set his face
"against Gog, the land of Magog, the chief prince of
Meshech and Jubal, and propheny against him;" and in
Rev. xx. 8, Satan is represented as going forth "to deceive the nations, which are in the four quarters of the
earth, Gog and Magog, to gather them together to battile." Among Christians, the terms have been used as
nearly synonymous with Antichrist, and in a general
sense to include all nations hostile to Christianity.
These names are also employed to designate two huge
warlike figures, that adorn the Guildhall of London.
Many fables are given of the origin of these worthles;
but nothing with certainty is known regarding them,
further than that from time immemorial they have been

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looked spon with pride by the people of London. The old giunts, which were of wickerwork and pasteboard, were destroyed by the great fire of 1666, and the present ones, which are of stone, were constructed in 1708. They are fourteen feet high.

George, George Henrik, Baron Von, an eminent Swedish statesman, B. of a noble family in Franconia. He joined Charles XII. of Sweden at Stralsund, on his re-

joined Charles XII. of Sweden at Stralsund, on his return from Turkey, and by his activity and intelligence was soon placed at the head of political affairs. But scarcely had Charles fallen before Frederickshall (Dec. 11th, 1718), when G. (then foreign minister) fell a sacrifice to the harred of the nobility, and of the successor to the throne. He was arrested, and charged with having induced the Swedish monarch to engage in ruinous enterprises, and of having mismanaged the finances intrusted to him; no time for repelling the accusations was allowed; and on Feb. 28, 1719, G. was condemned and beheaded, without a hearing.

Goeta-Elf, or Goeta-a, a Swedish river rising in Lake Werner, and after a S. course of 50 m. entering the Cat-

mirrusted to him; in time for repelling the accusations was allowed; and on Feb. 28, 1719, G. was condemned and beheaded, without a hearing.

Goeta-Elf, or Gotha, a Swedish river rising in Lake Werner, and after a S. course of 50 m. entering the Cattegat. Near its source are the falls of the Trothetta, to avoid which the canal of same name was cut.

Goethe, or Gisthe, (Goth,) Johann Womenang von, the greatest modern poet of Germany, and the regenerator of German literature, was B. at Frankfort-on-the-Main, in 1740. His father was a counsellor of state, and young G. was reared amid all the elements conducive to a taste for, and cultivation of literature and the arts. In 1764 he proceeded to the University of Leipzig, and 4 years afterwards to that of Strasburg, in order to qualify himself for the legal profession. The study of law, however, gained less upon his attention than that of the natural sciences, as clemistry, physiology, &c. In 1771, after taking his doctor's degree, G. went to reside at Wetzlar. Here, in 1773, he produced his romantic drama of Götz von Berlichingen, which excited great enthusiasm in the German literary world. About this time G. conceived a passion for a lady who was already betrothed, and shortly after became the wife of another; which incident, together with the snicide of a student of his acquaintance—also a sufferer from misplaced affection—G. fused together to form the plot of a novel, which, in 1774, he brought out under the title of Dic Liden des Jungen Werther ("The Sufferings of Young Werther"). This book, in its sublimity of mandlin sentimentalism, became at once the ruge. In 1775 G. was invited by the duke of Save-Weimar to take up his residence at his court. To Weimar he accordingly repaired, and there became the central figure and ruling deity (so to speak) of a galaxy of some of the most eminent notabilities of that day, counting among them Wieland, Schiller. Herder, and Senckendorff. G. was shoo, by the duke's favor, appointed a privy councillor of legation, and superint



Fig. 1172. — GOSTER.

1807, the czar Alexander of Russia conferred upon G. the order of St. Alexander Newski,—an example followed by Napoleon with the grand-cross of the Legion of Honor, while on a visit to him at Paris. In 1809 appeared his Wahlernoundschaften "Elective Affinities", a work in which he advanced certain views on the marital relation which disgusted the moral world. The year 1818 beheld the second part of his Wilhelm Meister—the Winder-Jahre, and in 1831, the second part of Funst, which, while containing many passages of striking thought, grotesque humor, and melodious imagery, exhibited a whole of such profound mysticism and enignatical philosophy, as to be incomprehensible even to the most critical understanding. D. at Weimar, March 1912, 1832. G. was an intellectual giant, and "represents in himself alone," says Madame de Staši, "the whole of German literature. His keen and profound insight into 1807, the czar Alexander of Russia conferred upon G

human life and character, his encyclopedic knowledge, his sublime imagination, his exquisite sensitility and play of fancy, and his consummate style, place him high in the constellation of literary genius that appeared in the latter half of the 17th and beginning of the 18th centuries. His mighty influence has reached all spheres of human thought, and grows stronger with time. Admiration of this great poet forms a sort of masonic password uniting the intellectual elements of all countries. The subject of Faust is the worldly career of man: the aspiration, the resistance, the temptation, the sins, the agony, the destruction—all mysterious and mournul — supplying food for comment and controversy—for admiration as for blame, to generations yet to come? Wilhelm Measter, G.'s greatest prose effort, has been well rendered into English by Carlyle's admirable translation. His minor pieces, ballads, songs, and elegies, all partake of the profundity of his philosophical mind. Books immenseable, in the shape of recollections, letters, conversations, &c., have been written about this master-mind of the "Patherland." Especially noteworthy are the Excays on his life and works by Carlyle, and G. H. Lewes' Life of Gathe. A literary curiosity was published in 1865, in the form of a Hebrew translation of Fluat, under the title of Ben Abuya, by a German scholar, Dr. Max Letteris.

man scholar, Dr. Max Letteris.

Gerkse, Johann August Ephraim, a German naturalist,
B. at Aschersieben, in 1731. Ite made many microscopic
discoveries, and wrote several books on natural history,
among which are Entomological Memoriar (4 vols.), A
History of Intestinal Worms, and an European Fauna
(9 vols.) He was pastor of the church at Quedlinburg,
and a in 1733 and p in 1793.

doffile, in New Jersey, a village of Passaic co., abt. 3 m

Goff's Falls, in New Hampshire, a post-office of Hills

borough co.

Goff's Mills, in New York, a post-vill. of Steuben co.

Goff's mills, in New Humpshire, a post-village and
township of Hillsborough co., on the Merrimac River,
abt. 12 m. 8. of Concord.

abt. 12 m. 8. of Concord.

Gloffs'town Centre, in New Hampshire, a village of Hillsborough co., abt. 15 m. 8. of Concord.

Gog glusville, in Virginia, a P. O. of Franklin co.

Gloggle, (gog'l., v. n. [Allied to jog, joggle, and to provincial coggle, to be shaky; Gred. gogshuile-ach, goggle-eyed.] To strain or roll the eyes.

eyed.] To strain or roll the eyes.

"Which made him hang his head and scowl. And wink and spoggle like an owl."—Huddiviss.

Gog gle, a. Having full eyes: staring with rolling eyes.

—A. Astrained or affected rolling of the eye.

—J. Instruments used to cure squinting or the distortion of the eyes which occasion it; cylindrical tubes, in which are fixed glasses for defending the eyes from cold, dust, &c. Gog gled, a. Prominent: staring, as the eye.

Gog gled, a. Squint-eyed; lawing eyes which roll, or are prominent or distorted.

Gog magog Hills, are situate about 3 m. N. of Cambridge, in England. On their extreme summit we find the remains of an ancient Roman camp with a triple intrenchment.

Go'gol, NIESLAY, a Russian novelist and miscellaneous writer, B. probably about 1810. He is the author of a writer, B. probably about 1810. He is the author of a novel entitled Dead Souls (which was received with great enthusiasm by his countrymen, and was translated into English with the title of Home-Life in Russia), of a comedy entitled The Revisor, and two collections of short tales illustrative of rural life in Little Russia, of short tales limitrative of runt life in Little Russia, his native country. The reputation of G. was seriously impaired by his subsequent writings. He spent some years abroad, returned to Russia in 1846, and D. at Moscow, 1851.

Goheen/ville, in Pennsylvania, a post-office of Arm-

strong co.

Gohilwar', a dist. of India, prov. of Guserat, tributary
to Great Britain; Lat. 20° 50' to 22° N., Lon. 71° 12' to
72° 11' B. Desc. Fertile, and producing nearly all the
grains and fruite of India. Pop. 271,000.

Goian in ha, (gō-yā-nēēn'yd.) a town of Brazil, prov.
of Rio-Grande-do-Norte, abt. 28 m. S. of Natal; pop. abt.

Goil, (Loch,) a branch of Loch Long, in Argyleshire, Scotland, extending N. for 4 m. to Lochgoilhead.
Go'ing, n. Act of moving in any manner.— Departure.
"Thy going is not lonely."—Mitton.

Procedure; way: course of life; beliavior; deportment;
— often before on; as, there's pretty goings on.

"He seeth all his grings."—Job xxxiv. 21.

Course of providential agency or government. "They have seen thy goings, O God."—Ps. lxviii. 34.

Pregnancy; gestation.
Geitre, (goy'tr.) n. [Fr. got're, probably a corruption of Lat. guttur, the throat.] (Med.) A preternatural enlargement of the thyroid gland, occasioning a swelling of the throat, which frequently attains a very large size. It is also termed bronchocele and Derbythire neck. size. It is also termed bronchocele and Derbyshire neck, on account of its prevalence in this co. of England. It is, however, in the Alpine districts of Europe, especially in Switzerland, Savoy, and Tyrol, that it is chiefly to be net with. It is also common in certain regions of the Andes and Himalayas. It is frequently associated with cretinism. (q. n.) Little is yet known of the nature or cause of this disease. It is endemic, or common to certain regions; but from what peculiarity of these regions it is owing, it is very uncertain, though many are inclined to attribute it to a calcareous impregnation of the water. It also occurs hereditarily, independent of endemic influence. It is much more common among females than males, and usually occurs about the age females than males, and usually occurs about the age of puberty. It is not of an inflammatory or malignant

character, is free from pain, and generally of the nature color of the skin. At first the tumor is soft and elastic but as it increases in size it becomes hard and firm. In size often becomes so great as not only to be a serious inconvenience, but even to impede respiration and ob-struct the voice. The great remedy for this disease is lodine, either administered internally in small doses for a long time or applied externally, either in the form iodine, either administered internally in smail does for a long time, or applied externally, either in the form of an ointment or of the tincture painted over it every night. Generally, if not of long standing, the swelling will in this way be removed.

Gol'tred, Gol'tered, a. Affected with goitre.

Gol'trous, a. [Fr. poitreux.] Pertaining to or affected with goitre.

with goitre.

with goitre.

Go'jasm, a prov. of Abyssinia, lying 8. of Lake Dembea;
Lat. 10° to 11° N., Lon. 37° to 38° E. Aurface, in many
portions mountainous; it is yet in others diversified by
hill and dale, affording good pastures, which are well
watered by the various affluents of the Abai River.
fbp. 71,000.

Go'las, n. [It., throat, flute, moulding.] (Arch.) Same
as CYMA, Q. v.

Top. 1,1000.

Go'lan, a. [It., throat, flute, moulding.] (Arch.) Same as CYNIA, q. r.

Go'landsville, or Go'lansville, in Virginia, a village of Caroline co.

Golcon'da, a fortress of the Nizam's dominions, Hindotan, situated 7 m. N.W. of his capital, Hyderalsal, Lat. 17º 2½' N., Lon. 78° 2½' E. In its immediate neighborhood are the ruins of an ancient city, once the metropolis of the kingdom of Golconda, and the yet solid mausoles of its former sovereigns, which form a vast group of dome-crowned structures of gray granite, each having its own mosque, and occupying the centre of its own elevated terrace, (Fig. 248.) C. is proverbially famous for its diamonds; but in truth they are merely cut and polisised here, being generally found at Porteall, near the southern frontier of the Nizam's dominions.

Golcon'da, in Illinois, a post-village, cap. of Pope co, on the Ohio river, 77 miles above Cairu, Ill. Pop. (1897)

near the southern frontier of the Nizam's dominions. Goleon'das, in Ilimosis, a post-village, cap. of Pope co, on the Ohio river, 77 miles above Cairo, Ill. Pop. (1897) about 1,350.
Gold, s. [A. S., Ger., Fris. gold; Dut. goud; Danish guld, from A. S. gelzeo, yellow. Root Ar. gla, to be clear, bright, to shine.] (Min.) This metal has been known from the remotest times. It is the Sol, or sun, of the alchemista, who represented it by the circle Co, the emblem of perfection. It occurs in nature in a metallic state, alloyed with silver in all proportions up to 38 peccent., and containing also traces of copper, iron, palladium, and rhodium. It is sometimes found crystallized, the primary form being the cube without cleavage; also in grains, thin scales or lamine, and masses popularly called nuggets. The color of native C. is yellow of various shades, sometimes inclined to silver-white, according to the amount of silver present. It is very ductile and malleable; its sp. gr. varies with the alloy from 12-19-5. Pliny states that when the proportion of silver in the G. is \( \frac{1}{2} \) it is called cloctrum. This is the Greek word for amber, and the alloy may have been so called from its pale-yellow color. Palladium G., called also porperite, from Porpez in Brazil, contains from 6 to 10 per cent. of palladium, and some silver. Rhodium G. contains from 34-43 per cent. of rhodium. Iridium is also found in connection with G. The G. of California yields on an average 890-thousandths of the pure metal; that of Australia 925-thousandths into non proper pyrites are, by inexperienced persons, often mistaken capitate is intered and washed in intricacid, and the re-maining insoluble matter is the gold. Scales of mica colored with oxide of iron are also sometimes mistakes for gold. G. is found with comparatively small excep-tions in the veins of quarts that intersect metamorphic rocks. It is always very irregularly distributed, never in continuous pure bands of metal like many metallic ores. It occurs in the quartz in strings, scales, plate, and in masses which are sometimes an agglomeration of crystals. The scales are often invisible to the naked or crystals. The scales are often invisions to the make eye, and quarts that appears to contain no gold often yields a considerable percentage to the assayer. While the native place of gold seems to be in the quarts rock, the G. of the world is mostly gathered, not directly from it, but from the gravel or sands of rivers or valley, or the slopes of hills or mountains whose rocks contain the contains the c it, but from the gravel or sands of rivers or valleys, or the slopes of hills or mountains whose rocks contain auriferous veins. Such deposits are often called allarial seashings, and in California, placer diggings, and have been derived from the disintegration or wearing down of the rocks containing G. The G. of these alluvial deposits is usually in flattened scales, or grains of different degrees of fineness, the size depending partly on the distance it has been transported. The coarser particles and nuggets, requiring rapid currents to transport them are directly slopes or bottoms of valleys, or a place where the waters may have eddied. These receptacles are called pockets. The finer particles are carried farther—sometimes scores of miles away. In 1865 a nugget was found in California weighing 201 ozs. In the museum of ming engineers at St. Petersburg is a mass weighing 36 lbs. Troy, from the valley of Taschku Targanka. The Blanch Barkley nugget from Australia weighed 184 lbs. 8 ozs, and yleided \$41,882.62 worth of gold. G, is widely distributed over the globe, but there are no means of stab

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ing with absolute exactness the product of the world for any given year. In 1896 it was about \$206,850,100. In the U. S., California has yielded two-thirds of the gold of the country, the remainder coming chiefly from colorado, Montaua, Idaho, Nevada, and South Dakota. In the East, N. and S. Caroliua and Georgia have yielded some gold. In Alaska, whose gold yield hitherto has been comparatively small, placer gold has been found along the Yukon river, where mining is now being actively pursued. The great gold fields are in Siberia, Australia and South Africa. The African mines are principally situated in the South African Republic, the gold being found in an outcropping bed of conglomerate which underlies a wide area of country, and is rich in the precious metal. In 1894 the African mines gave a yield estimated at \$40.271,000; the Australian, \$41,700,800; the U.S., \$39,500,000; the Russian, \$24,133,400; and other countries in much smaller proportion. The U. S. yield in 1896 was \$46,830,200. See Section II.

(Metal. and Chom.) Pure G. may be obtained by solu-

in 1896 was \$46,830,280. See SECTION II.

(Metal. and Ch-m.) Pure G. may be obtained by solution in nitro-hydrochloric acid (aqua regia). The solution is diluted and filtered, and evaporated almost to dryneas, to expol the excess of acid. The remaining sait then boiled with a solution of sulphate of iron, which precipitates the G. as a dark bluish-purple powder, which is subsequently washed with water and hydrochloric acid. It has a reddish-yellow color, but when much extended transmite a green light. When pure it is nearly as soft as lead, and is the most malleable and ductile of all the metals, but inferior to many in its tenacity. (See all the metals, but inferior to many in its tenacity. (See God-branting and God-Lace.) Its symbol is Au, from its Latin name Aurum, equivalent 197, and sp. gr. 195. Its fusing-point is about 2010. It is not affected by air or water at any temperature. It does not combine directly with any of the non-metallic elements, except chlorine, bromine, fluorine, and phosphorus. The ordirecuy with any of the hon-metallic elements, except chlorine, bromine, find phosphorus. The ordi-nary acids do not attack it, but it is readily dissolved by a mixture of nitric and hydrochloric acids, the active agent being the liberated chlorine. Seleuic acid acts upon it by oxidation, the acid itself being converted into selenious acid. Gold forms two oxides. The protoxide of the properties of the protoxide of the protoxide of the protoxide. upon it by oxidation, the acid lized being converted into selenious acid. Gold forms two oxides. The protoxide (form. AuO.) forms a dark precipitate when protochloride of gold is decomposed by potash. It forms a conpound with hydrosulphite of sods, much used in photography under the name of sel d'or. It forms also a stannate of gold and tin used to impart a purple-red color to glass and porcelain under the name of purple of Cussius. The Traxide of Gold (form. AuO.) is prepared from the solution of gold in aqua regia by boiling with an excess of potash, decomposing the aurate of potash with sulphuric acid, purifying by dissolving in nitric acid and precipitating by water. It forms a yellow precipitate, which is decomposed by exposure to the light or a temperature of 500°. Fulsainating G. is obtained as a buff precipitate when ammonis is added to a solution of terchloride of G. It explodes violently when gently heated. With chlorine G. forms two salts,—the protochloride, AuCl, formed as a pale-yellow substance, sparingly soluble in water, when the terchloride is very soluble in water and alcohol, forming a yellow or orange solution, according to its strength. It has an acid reaction, and stains the suress portable of the sichemists. The solution of terchloride of G. should be kept in a dark place, as it is easily reduced by the feeblest deoxidizing agents. The facility with which it deposits metallic C, and the resistance of the deposited metal to atmospheric action, render it of great use in photography. It is used occasionally in medicine. It forms distinct double salts with a number of metallic chlorides, which are mostly yellow when in crystals, and red when deprived of water. The number of metallic chlorides, which are mostly yellow when in crystals, and red when deprived of water. The when in crystals, and red when deprived of water. The suro-chlorides of potassium and sodium are much used in photography. By adding a solution of cyanide of potassium to a week solution or terchloride of G., we obtain the protocyanide of G. It is a lemon-yellow powder, soluble in an excess of cyanide of potassium, forming the double cyanide of gold and potassium, which is largely used for glidling by the electrotype process. The other compounds of G. are of slight importance. When the metal is disseminated through quarts, pyrites, or lead-ore, the ore is pulverized and washed with a stream of water, which carries away the lighter portions of the metal is disseminated through quartz, pyrites, or lead-ore, the ore is pulverized and washed with a stream of water, which carries away the lighter portions of sand, leaving the gold behind. The fine particles are amalgamated with unercury, and by that means retained and separated from the powdered rock, and the mercury is then distilled off. It is further refined by behing finely granulated and looiled with concentrated sulphuric acid until every other constituent is dissolved out. Perfectly pure gold is denominated gold of '24 carats. or fine gold. Gold containing 2 parts of alloy in 24 is said to be 22 carats fine. Perfectly pure gold is too soft for use as coina, vessels, ornaments, &c., and is therefore alloyed with copper and silver. By being alloyed it loses much of its ductility and malloability, but gains in hardness and fusibility. For coins, the standard G. of the United States consists of 900 parts of gold to 100 of an alloy of silver and copper. The English standard gold contains 17 of alloy, now of copper. Jewelry is generally made for 18 carat gold. For methods of applying G. to glass, porcelain, &c., see Gildding. G. alloys are assayed in 2 ways,—by rubbing the article on a touchstone so as to make a metallic streak, which is touched with nitric acid, and the effect is compared with that of a similar streak made by an alloy of known composition. An experienced operator will in this way estimate the amount of alloy in any mixture correctly within 1 per ct. When great exactness is required, the process of cupellation is

resorted to. lead. It is then fused upon a bone-ash cupel. The lead carries down all the impurities but the silver into the cupel, leaving the G. alloyed with 3 or 4 times its weight of silver. It is then beaten out and immersed in nitric of silver. It is then beaten out and immersed in nitric acid, which dissolves out the silver, leaving the G. pure. The amount of silver used must be at least 3 times that of G., otherwise the silver diffused through the G. would be protected from the action of the acid. The first of these operations, where the G. is alloyed with the silver, is called quartation; and the separation of the metals by nitric acid is termed parting. Sponge gold, for dentists use, is prepared by dissolving G., from free copper, in aqua regia, and precipitating by a strong solution of oxalic acid. When the G. is all precipitated, the liquid must be decanted off carefully without disturbing the G. in the bottom. It is then washed with boiling water by filling the vessel several times and decanting until it is free from oxalic acid. The G. is now removed on to blotting-paper and gently pressed into the form of the blotting-paper and gently pressed into the form of the desired cake, but thicker. On heating this for a short time, somewhat below a red heat, it shrinks and becomes

time, somewhat below a red heat, it shriuks and becomes coherent. — See Gilling, Goll-Beathe, Pero. Mitals. Gield Armal'gram, n. (Min.) A native amalgam of gold from the platinum of Columbia and from Mariposa, Cal. It is in small white grains, easily crumbling, also in whitish 4-sided prisms. Comp. of a Columbian specimen, mercury 57-46, gold 38-39, silver 50.
Gold Beach, in Oregon, a post-village, capital of Gurry co., ou the Pacific ocean at the mouth of Rogue river. Pop. (1897) about 300.
Gold-beater, n. One who beats gold into thin leaves for gildling, &c.

Gold'-heater, n. One who beats gold into thin leaves for gilding, &c. Gold'-beater's-skin, n. (Manuf.) The intestinum rectum of an ox, which gold-beaters lay between the leaves of their metal while they beat it, whereby the membrane is reduced thin.—See Gold-Beating. Gold-beat'ing, n. (Arts.) The process by which gold is extended to thin leaves used for gilding. Attempts have been made to apply machinery to G. B., but though very ingenious, their application is very limited; most of the gold-leaf is still beaten by hand, as follows: The gold is first cast into oblong ingots about \$\frac{1}{2}\text{the of an inch wide, and weighing two ounces. The ingot is flattened out into a ribbon of about \$\frac{1}{2}\text{the of an inch in inch wide, and weighing two ounces. The ingot is flattened out into a ribbon of about \$\pi\_0^2 th\$ of an inch in thickness by passing it between polished steel rollers. This is armealed or softened by heat, and then cut into pieces of one inch square; 150 of these are piaced between leaves of veilum, each piece of gold in the centre of a square veilum leaf, another placed above, and so on till the pile of 150 is formed. This pile is enclosed in aboutle parchment case, and beaten with a 16-pound hanmer. The elasticity of the packet considerably lightens the labor of heating, by cansing the hammer to rebound with each blow. The beating is continued until the inch-pieces are spread out to four-inch squares they are then taken out, and cut into four pieces, and squares thus produced are now placed between gold-beater's skin instead of veilum, made into piles, and enclosed in a parchment case, and beaten as before, but with a lighter hammer. Another quartering and beating produces 2,400 leaves, having an area of about 190 times that of the ribbon, or a thickness of about \$\pi\_0\pi\_0\pi\_0\pi\_0\text{the theory in the stage of the piles.} produces 2,400 leaves, having an area of about 190 times that of the ribbon, or a thickness of about \$70\frac{1}{0}00\$th of an inch. An ounce of gold is thus extended to a surface of about 100 square feet. A still greater degree of thinness may be obtained, but not profitably. After the last beating, the leaves are taken up with wood pincers, placed on a cushion, blown out fat, and their ragged edges cut away, by which they are reduced to squares of 3½ inches. 25 of these are placed between the leaves of a paper book, previously rubbed with red chalk, to prevent adhesion of the gold, and are sold in this form.

Gold berg, a city of Prussian Silesia, 12 m. S.W. of Liegnitz. Manuf. Cloths, flannels, woollen socks, and gloves. Pop. 7,500. — Another G. in Mecklenburg-Schwerin, on a lake of same name, is only remarkable for its baths, which are of high repute.

Gold'-bound, a. Encompassed with gold.

Gold'-cloth, n. Cloth interwoven with threads of

Gold'-cloth, n. Cloth Interwoven who considered gold-wire.

Gold'-coast. See Guinea.

Gold'-coast. See Guinea.

Gold'-cup, Golden-cup, n. (Bot.) See Ranunculus.

Gold'-dust, n. Gold in very fine or minute particles.

Gold'em, a. [A. S. galden, gylden.] Made or consisting of gold.— Bright; shining; splendid; of a gold color; as, the golden sun, a gylden harvest.— Excellent; valuable; happy; pure; innocent; as, the golden age.—
Presiminently favorable or auspicious; as, to will golden onlinions.

Gold'en, a town of Ireland, co. of Tipperary, abt. 4 m

W. of Cashe.

W. of Cashe.

Gold'en Age. (Myth.) That time when, according to the traditions of most peoples and religions, the earth was the common property of man, and produced spontaneously all things necessary for an enjoyable existence. The Greeks and Romans placed this golden age under the rule of Saturn; and many of their poets—as, for example, Hesiod, in his Works and Days, Aratna, Ovid, and above, all Virgil, in the first book of the Georgics—have turned this poetic materiel to admirable account, and defined the gradual decadence of the world, as the silver, the brass, and the iron ages, holding out at the same time the consolatory hope that the pristine state of things will one day return.

Gold'en Bridge, in New York, a post-village of West-chester co., abt. 120 m. S. by E. of Albany.

Gold'en Bridge, a village of Ireland, abt. 2 m. W.S.

W. of Dublin; pop. abt. 1,000.

sorted to. A mixture of one part of the alloy to be Gold'en-Bug, n. (Zoil.) The seven-spotted lady-bird, sayed is made of 3 or 4 parts of silver and the same of Coccinella esptempunctata, a small and pretty insect of

Coccinella septempendata, a small and pretty insect of the genus Coccinella, q.v. Gold'em Calf. (Script.) It was east by Aaron from the eur-rings of the people, while the Israelites were en-camped at the foot of Sinai, and Moses was absent on the Mount. Ages after, Jeroboam, king of Israel, set up two idols in the form of a calf, the one in Dan and

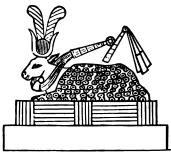


Fig. 1173. - EGYPTIAN CALF-IDOL

the other in Bethel. This almost incomprehensible gradation of human reason was, more particularly the first instance, no doubt the result of the debasing influences which operated on the minds of the Israelites during their sojourn in Egypt where, amid the daily practice of the most degrading and revolting religious

practice of the most degrading and revolting religious ceremonies, they were accustomed to see the image of a sacred calf, surrounded by other symbols, carried in solemn pomp at the head of marching armies; such as may be still seen depicted (Fig. 1173) in the processions of Rameses the Great or Sessitis.

Gold'em Câty (now Golden), in Colorado, a city, cap. of Jefferson co., at the E. base of the Rocky Mountains, on Clear creek, about 16 m. W. of Denver. Its rapid growth was mainly owing to the rich gold mines in the vicinity. A United States Land Office was here located. Pop. (1890) 2.383.

Gold'em Corners, in Ohio, a post-office of Wayne co. Gold'em Eagle, n. (Zoil.) A N. American hird, called also Ring-tailed Eagle. Aguita canademis, sub-family Aguiling. It is 32 to 40 inches long, and the wing 35. The head and neck behind are light-brownish fulvous, the tail at base white, terminal portion glossy black, The head and neck behind are light-brownish fulvous, the tail at base white, terminal portion glossy black, and all other parts purplish-brown. It has great power of flight, but not the speed of many of the falcons and hawks, and does not so readily pursue and capture birds upon the wing; but its keen sight enables it to spy an object of prey at a great distance, and with meteor-like swiftness and unerring aim it falls upon its victim. At times it each to great heights maying slowly and maisetimes it soars to great heights, moving slowly and majestically in broad circles. The nest of the G.E. is placed



Fig. 1174. - NEST OF THE GOLDEN BAGLE.

upon a shelf of a rugged and generally inaccessible precipice. It is flat and very large, and consists of dry sticks. The eggs are two in number, three and a half inches long, and two and a half inches through, and dull white with undefined patches of brown. The G. E. preys upon fawns, hares, wild turkeys, and other large birds. It does not attain its full beauty of plumage till the fourth year. The so-called Ring-taited Engle is the golden eagle before it has reached maturity. The European G. Eagle is so nearly like the American one, that there is a question whether it is not the same species.

kesha co.

species.
Gold'en Fleece, n. (Myth.) See Jason.
(Hr.) See Fleece (Order of the Golden.)
Gold'en Fly, n. (Zoöl.) See Muscids.
Gold'en Gate, See California, a post-town of Alameda co. Pop. (1890) 788.
Golden Grove, in South Carolina, a village of Greenvilla.

Gold'en Hill, in Maryland, a post-office of Dorches-

Golden Hill, in Pennsulvania, a post-office of Wvo-

Gold'en Lake, in Wisconsin, a post-office of Wau-Digitized by GOOGLE

Gold'om Le'gond, (The.) [Lat. Aurea Legenda.] (Ltt.) A work written about the middle of the 13th cent., by James de Voragine, a Dominican monk, who was afterwards promoted to the archbishopic of Genos. The book itself consists of 177 sections, each of which is devoted to some particular saint, or festival, following the order of the Roman calendar.—The G. L. is also the title of one of the best effusions of our great poet

the title of one of the best effusions of our great post Longfellow.

Gold'em Lung'wort, n. (Bot.) See Hieracium.

Gold'em Lung'wort, n. (Bot.) See Politaions.

Gold'em Lung'wort, n. (Bot.) See Politaions.

Gold'em Numa'ber, n. (Chron.) The number of any given year in the Metonic cycle, q. v., and consequently ranging from 1 to 19. The name is derived from the fact that the number of each year was by law engraved in golden letters on a marble pillar. It is reckoned from the year 1, s. c., as in that year the new moon fell on Jan. 1, and as, according to the chronology of Meton, the new moon falls every 19th year on the same day, we deduce the golden number by the following rule:

Add 1 to the number of years, and divide by 19, the quotient gives the number of cycles, and the remainder is the golden number. The G. N. is used for determining the Epact, and the time for holding Easter.

number. The G. N. is used nor unsermining in any in any in time for holding Easter.

Gold'en Pond, in Kentucky, a post-office of Trigg co.
Gold'enridge, in Maine, a post-office of Aroostook co.
Gold'en Robin, n. (Ornih.) The Baltimore Oni-

Gold'en Robin, s. (Orsish.) The Baltimore Orrice (q. v.).
Gold'en Robin, s. (Orsish.) The Baltimore Orrice (q. v.).
Gold'en Rule, s. The rule of practice of doing to the rest of mankind as we would have them act toward ourselves. See Luke vi. 31.

(Arch.) The rule of proportion, or rule of three;—so called for the universality of its application.
Gold'en Sarm'phire, s. (Bot.) See Inula.
Gold'en Sarm'phire, s. (Bot.) See Inula.
Gold'en Spring, in Vo., a post-villa of Buchanan co.
Gold'en Spring, in Vo., a post-villa of Buchanan co.
Gold'en Spring, in Vo., a post-village of Wright co., about
30 m. N.E. of Fort Dodge.
Gold'field, s. District or region where gold is found.
Gold'field, in Iossa, a post-village of Wright co., about
30 m. N.E. of Fort Dodge.
Gold'fineh, s. (Zodl.) The Curnelis elegans, a species
of bird of the family Fringillide, and the gayest in appearance of all birds of temperate Europe. Its length
from the tail to the tip of the bill is about five and a haif
inches, and the greatest expansion of the wings is nine
inches. The bill is white, tipped with black; the forehead and throat scarlet, the head black, the back brown,
and rump a pale brown, the belly white, and a beautiful
yellow stripe runs across the wings, which are principally
black with white edgra.

and rump a pale brown, the belly white, and a beautiful yellow striper runs across the wings, which are principally black, with white edges.

Altogether it is the handsomest N. Buropean bird, and as its song is very sweet, the goldfinch is a universal favorite. It feeds on the seeds of various plants, particularly that of the thistie. It is found the purchant favores. iarly that of the thistic. It is found throughout Europe. Buffon says of it, "that beauty of plumage, melody of song, and sagacity of disposition, are all united in the goldfinch," and if it were



the goldfinch," and if it were not a native bird, it would be much higher prized than it is. Being of very lively habits, the goldfinch can be easily trained both to imitate other birds, and thus be of use as decuy, and to perform all manner of funny tricks for the diversion of its master. The black-headed goldfinch, C. magellanica, of S. America, and accidental in the U. States, has the head black all round. bead black all round.

Gold'-fish, n. (202.) See CYPRINDS.
Gold Flat, in Culifornia, a village of Nevada co.
Gold'-foil, n. Gold beaten out into thin sheets.

GOLD-BRATING.

Gold Hill, in California, a mining village of El Dorado
c., about 100 m. N.E. of San Francisco.

—A mining village of Placer co., about 7 m. W. of Auburn.
Gold Hill, in North Carolina, a post-village of Rowan
co. Gold is found in the vicinity.

co. Gold is found in the vicinity.

Gold is found in the vicinity.

Gold Hill, in Necada, a former post-town of Storey co.; in 1880 annexed to Virginia City, of which it forms two wards, having a population (1890) of 2,078.

Gold Lacce, n. (Arts.) A beautiful ornamental fabric, produced by applying a thin coating of gold to threads of silk. In the original method, a stiff thread was produced, long used for making cloth of gold, &c.; but manufacturers have been enabled to apply gold to flexible thread by means of recent inventions. The first process is sometimes called fibre-plating, and has been long known to Eastern and European nations. The mode of making gold lace in its commencement is similar to that adopted by the Hindoos. A bar of silver is roughened and coated with a film of gold; the rod is then drawn out into a wire, and finally twisted round orange-colored silk thread. For the finer kinds of wire thus made, perforated rubles are used as dies, and an orange-colored silk thread. For the finer kinds of wire thus made, perforated rubles are used as dies, and an ounce of metal can be brought to the astonishing length of a mile and a quarter. A piece of this wire 12 inches long, and finer than a human hair, will sustain a weight of 12 ounces. The process of coating flexible threads with gold film is called sibre-gilding. Chemists and manufacturers have long tried to overcome the many difficulties which stand in the way of fibre-gilding, and all the chemical and metallurgical processes have been successively tried; but although it was found easy to attach the gold to the thread, yet the whole was too long in drying, and had too soft a foundation, to admit of burnishing. The brilliancy of gold lace produced by fibre-plating has never been surpassed or even imitated by any of the processes invented. Among the principal methods in use are the chemical processes of Mr. Albert Hock and Mr. Green, and that of Dr. Kroning of Stolberg. Electro-metallurgy has not been rendered directly applicable; but by M. Barot's method, the material to be gilt is dipped in a solution of nitrate of sliver and animonia. After remaining two hours, and dried, it is exposed to a current of pure hydrogen gas. A slivered surface is thus produced, which can easily be gilt by the electro-metallurgic process.

surface is thus produced, which can be electro-metallurgic process.
Gold'-laced, a. Wrought with lace of gold.
Gold'-latten, a. A thin plate of gold, or of other metal

Gold'-IRITEM, A. A tim plate of gold, or or other mean covered with gold.
Gold'-leaf, n. Gold beaten into a thin leaf or foil.
Gold Mosa'ie, n. (Chem.) A term generally applied to the bisulphide of tin, which has a metallic lustre and color resembling the precious metal. It is also popularly used to denote an alloy of copper and zinc or tin, investigate of gold. imitative of gold.

larly used to denote an alloy of copper and zinc or tin, intative of gold.

Gold'mey, n. Same as Gilthead, q. r.

Goldo'mi, Crarles, a celebrated Italian dramatist, n. at Venice, 1707. The Italian stage was reformed by him: and his comedies, which are numerous, are exceedingly humorous and natural. About 1761 he went to Paris, and became composer to the Italian theatre, besides which he had an appointment at court. D. 1795.

—His works were printed at Leghorn, in 31 vols. 8vo.

Gold'-pleasure, n. (Bot.) See Camelina.

Gold point', in North Carolina, a post-office of Martin co.

Gold point', in North Carolina, a post-office of Martin co.

Gold point', in North Carolina, a post-office of Martin co.

Gold Burn; in Malicouri, a township of Howell co.

Golds'borough, in Morth Carolina, a tity, capital of Wayne co., on the Neuse river, about 50 miles S.E. of Raleigh; laid out in 1841, and has improved rapidly.

Pop. (1897) about 5,500. On Dec. 13, 1862, this place was captured by a Federal force under Gen. Foster. Gen.

Sherman, after a succession of difficulties opposed to him by the Confederate Gen. Johnston, effected a junction with Gen. Schoffeld here, March 22, 1865.

A township of Wayne co.

Golds'borough, in Pennsylennia, a borough of York co., on the Susouloshuma river, about 18 m. N. by W. of

tion with Gen. Schofield here, March 22, 1895.

—A township of Wayne co.

Golds'borough, in Pennsylvania, a borough of York co., on the Susquehauna river, about 18 m. N. by W. of York. The post-office is ETTER's.

Gold'schmidt, JENNY LIND. See LIND (JENNY).

Gold'schmidt, JENNY LIND. See LIND (JENNY).

Gold'smith, n. [A. 8. goldsmidh.] One who manufactures vessels and ornaments of gold and silver.

Gold'smith, OUVER, a brilliant man of letters of the last century, was z. at Pallsa, co. Longford, Ireland, in 1728. His father, a minister of the Established Church, placed him early at school at Elphin, co. Rosecommon, near which city his uncle's family-mansion and his second home, Ballyoughter, was situated. In 1745 he entered Trinty College, Dublin, where he gave no indications of genius or scholastic talents, and becoming involved in some youthful irregularities, quitted the university,



Fig. 1176. — GOLDSMITH'S HOUSE AT LISSOY.

and led for some time a sort of vagrant life. Returning to college, he graduated B. A. in 1749, after which he proceeded to Edinburgh and Leyden universities to study medicine. His views in this respect were, however, counteracted by an insatiable passion for gambling, which in the end utterly impoversished him, whereupon he set out on foot for a tour of the European continent, supplied with no other means than those afforded by his recedenists by kindle partner and effects. ne set out on toot for an or the European continues, supplied with no other means than those afforded by his good spirits, his kindly nature, and a favorite flute, on which he was an adept player. After taking his degree in medicine at Padua, G. returned to England in 1756, where he commenced practice as a physician, in which he was unsuccessful. He then entered the field of letters; and after passing a Bohemian period of obscurity and privation as a "bookseller's hack," to use his own bitter laconism, his first work to attract attention was an Inquiry into the Present State of Polite Learning in Europe, published in 1759. To this succeeded The Citizen of the World, a Life of Beau Nush, and a History of England. Becoming acquainted with Dr. Johnson, in 1761, the latter introduced G. to the Literary Club. In 1764 appeared The Traveller, which at once placed G. in the front rank of English authors. Two years afterwards appeared the Vicar of Wakefield,

a work that has been the delight of four generation, and that will probably perish only with the language. Following in rapid succession, came his comedy of The Good-natured Man (1767), the History of Rome (1767), and his exquisite poem, The Deserved Village, in 1769. In 1773, his immortal comedy of She Shoops to Computook the public by storm. His other works are the Gracian History (1774), Retaliation, a serio-comic poem, (1774), and the History of Animated Nature, which he did not live to finish. During these latter years, 6, while in the receipt of large remuneration for his works, was constantly involved in pecuniary embarrasment. The man had a large heart, a generous hand, and an indolent disposition, loved good living and fine clothes, had a penchunt for the gaming-table, and spent all that these extravagances left him in profuse but unostentatious charity. G. died in April, 1774, \$10,000 in debt, and more truly lamented than any literary man of his generation. The poor whom he had so of befriended sobbed their grief on his staircase, and the brilliant coterie of with a stricts, authors, and philosophers mourned him with one entire and unaffected sorrow. Sir Johns Reynolds, when apprised of his death, left his studio and painted no more that day. G. was buried in the Temple Church; and a monument, epitaphized by Dr. Johnson, was erected to his memory in Westminster Abbey. G. may be considered to have written the finest poem, the most exquisite novel, and, with the exception of Sheridan's School for Scandal, the most perfect polite comedy of the period he belonged to. An admirable life of G., by John Forster, entitled The Life and Letters of Oliver Goldmith, was published in London in 1854, and has been reproduced in this country. As an instance of the standard popularity of his She Scops to Conyeer, we may conclude by remarking that this charming concept sustained a brilliant run of 100 nights at one of the London theatres in 1860-70.

Gold Springes. Or Greek Springs, in California, a mining-village of Tu a work that has been the delight of four generations,

Count in the control of the control

Gold'thread, n. Thread formed of flatted gold laid

Gold'thread, n. Thread formed of flatted gold laid over a thread of silk.

(Bot.) See Corrts.
Gold'-wire, n. Properly, wire made of gold; usually silver wire superficially covered with gold.

Golf, or Gorr, n. [Ger. kolbe; D. kolf, a club.] (Gunes.)
A game played with a club and ball, which is peculiar to Scotland. A series of small round holes, several inches in depth, are cut in a tract of smooth turf, at distances of from 100 to 400 or 500 yards apart from each other, in a circular order. The rival players are either two in number, or four (two on each side). The islik, weighing about 2

weighing about 2 oz., are painted white and made of gutta-received gutta-percha. An ordinary golf-club consists of two parts spliced together— viz., the shaft and head; the former is made either of hickory or lancewith the handle cov-



Fig. 1177.—HEAD OF GOLF-CLUB.

with leather, while the head (sometimes weighted with lead behind, and faced with horn) is composed of well-easaned apple-tree or thorn. Every player has an attendan, called a caddy, who carries his clubs, and "tees" his balls. The method of playing the game is to start from the first hole and drive the ball into the next hole with

the first hole and drive the ball into the next hole with as few strukes as possible; and so on all around the course or circle. The players (or pair of players) whose ball is holed in the fewest strukes has gained that hole; and the "match" is generally determined by the major number of holes gained in one or more rounds. This game is now coming into some vogue in America.

The first has to following at the game of rolf.

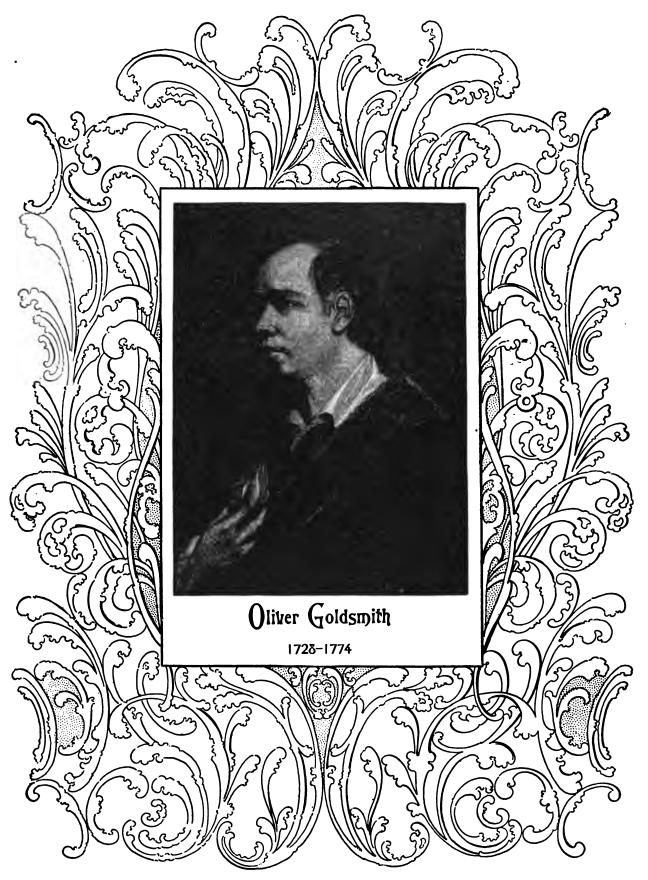
Golf gothm. [Heb., "a skull," or "the place of a skull."]

The Calvary, the scene of the crucifixion of Christ, was situated without the gates of Jerusalem, on the R side of the city, although the common opinion handed dwarfrom the Middle Ages fixes it in the N.W. It is probably the ordinary spot of execution, though this is to be inferred rather from the fact that, in the eyes of the Roman officers of justice, Christ was simply a common criminal, than from any supposed connection between the word "skull" and a place of execution; G. receiving its name in all likelihood from its round skull-like form. A church was built over the spot in the 4th call. form. A church was built over the spot in the 4th ceal by Constantine. What is now called the "Church of the Holy Sepulchre" to the N.W. of Jerusalem, but within the walls of the city, has manifestly no claim whatever to be considered the building erected by Constantise; but while recent biblical scholars and travellers generally have assumed that the scene of our Saviour's creerally have assumed that the scene of our Saviour's cre-cifixion and sepulture is not ascertainable, a writer is Smith's Dictionary of the Bible offers strong reasons for helieving that the present mosque of Omar, called by the Mohammedans "The Dome of the Rock," occupies the site of the sacred Golgotha.

the site of the sacred Golgotha.
Geol'gotha, in Georgia, a former post-village of Coboo, about 123 m. N. W. of Milledgeville.
Geo'liad, in Texas, a S. co.; area, about 820 sq. m. Riest.
San Antonio river and Coleto creek. Serface, diversified; soil, fertile. Cap. Goliad. Pop. (1897) about 7,000.

A post-village, cap. of the above co., on the San Antonio river, 120 m. S. by E. of Austin. Pop. (1897) about 1,250.

Digitized by



Goliar'dery, n. [Goliardus, a monk who wrote sundry satirical pieces in the 9th century, inveighing against the luxury of the clergy.] A satirical species of writing very current among churchmen and others of writing very current among churchmen and others in the Middle Ages, in which, for the most part, the vices or peculiarities of ecclesiastics are mentioned and

vices or peculiarities of ecclesiastics are mentioned and reprobated. The most complete specimen extant is to be found in the writings of Walter Mapes. (Mapesius.) Abbot of Glassonbury in the early part of the 18th cent. Gell'ath. (Script.) A celebrated giant of Gath, who challenged the armies of Israel, and was encountered and sain by David. The history is contained in 1 Sam. xvii. Geliath-beetle, n. [Lat. goliathus.] (Zoil.) A genus of tropical coleopterons insects, family Scarabeids. The species more generally known as the G. B. is the G. caricus, which is a native of Africa and South America. This insect is remarkable for its large size: and, on ac-

curcus, which is a native of Africa and South America. This insect is remarkable for its large size; and, on account of its beauty and the difficulty of obtaining specimena, it is much prized among collectors. The Goliaths are said to be roasted and eaten by the natives of the countries they inhabit, who deem them a great dainty.



Fig. 1178. - GOLIATHUS PULYPHEMUS.

It is said, also, that sometimes \$50 to \$250 have been It is said, also, that sometimes \$50 to \$250 have been known to be given by entomologists for specimens of this insect, and that even now they fetch generally in Burupe \$25 to \$30. The G. polyphemus is another va-riety of this species, as is also the G. micans, the latter of which changes its color as it is held in different posi-tions to light. From the reason already given, of its rarity, not much is known as to the habits of either species of this insect.

tions to light. From the reason already given, of its rarity, not much is known as to the habits of either species of this insect.

Gell'mow, a small manufacturing town of Prussia, prov. Pomerania, on the Ihna, 15 m. N.E. of Stettin. Manuf. Woollens, cloth, ribbons, pepper, &c. Pop. 7,028.

Gel'mitz, or Gollints, a town of Upper Hungary, in the county of Zips, 20 m. from Eperies. It is the seat of a mining council, and has large iron-foundries, and factories of wire cutlery. Pop. 5,500.

Gelochees, m. pl. Same as Galoche, q. v.

Gelochees, m. pl. Same as Galoche, q. v.

Geloc'min, Ivan. (Paince Hoval.) a Russian man of letters, a abt. 1813. Becoming implicated in the Polish troubles in 1848. G. took refuge in England, where he became a naturalized citizen in 1853. His chief works are Exprit de l'Économie Politique (1842); Pierre, le Grand (1844); La Russie sous Nicholas I. (1845); The Cucasus, from an Historical, Political, and Physical Point of View (1853); Progress in Russia (1859); &c.

Gell'schut, m. [Lat.] A small ingot of gold.

—An itselu; a silver coin in Japan, worth 44 cts. Fed. mon. Genna'te, or Gomuri Palm, m. (Bot.) The Suguerus sacclarifer, or Areng. a species of trees, order Palmacaz, found in the Moluccas and Philippines, which supplies abundance of sugar. Palm-sugar is generally obtained from the julce which flows out from different palms upon wounding their spathes and adjacent parts. It is commonly known in India by the name of jaggery. The juice of the gomuti palm, when fermented, produces an intoxicating liquid or toddy. In Sumatra it is termed seen, and a kind of arrack is distilled from it is Batsvia. From the trunk of this palm, when exhausted of its saccharine juice, a good deal of our commercial sage is obtained. A single tree will yield from 150 to 200 lbs. of sago. The juice of the fruit is very acrid. The stiff strong fibre known under the name of Gommuti, or Ejow fibre, is obtained from the leaf-stalks, and is extensively used in the manufacture of cables and various kinds of ropes

warious kinds of ropes.

Gem'bo, n. Same as Gundo, q. v.

Gembroon, or Bundardanas, a seaport-town of Persia, on a bay of the Gulf of Ormus. It is the port of Schiras, and of all the south of Persia, but is now greatly decayed, Lat. 270 18' N., Lon. 560 12' E.

Ge'man. a. Same as Hower. q. v.

Ge mer, a. Same as Homes, q.v.
Ge mer. [Heb., to finish, or "a consumer."] The eldest son of Japhet, whose descendants peopled Asia Minor and Europe.

Go'mer, in Ohio, a post-village of Allen co., abt. 10 m

N.N.W. of Lime.
N.N. of Lime.
N.N.

the sockets.

Gom'pholite, n. [Gr. gomphos, nail, lithos, stone.]

(Geol.) A term applied to the conglomerate rocks of
the tertiary period; the Nagethoh of the Swiss.

Gompho'sis, n. [Gr. gomphos, a nail.] (Anat.) An
articulation similar to a nail in a board. The articulation of the teeth in the two jaws.

Gomphre'ma, n. (Bot.) The Globe Amaranth, a genus
of plants, order Nyctaginacce. They are herbs or shrubs
native of S. America and India. O. globosa, an Indian
species, is a tender annual, valued for its heads of flowers,
which, if gathered before too far advanced, will retain
their beauty several years. which, if gathered before too far advanced, will retain their beauty several years.

Gomuti. See Gomaro.
Gomaive, (La,) (la go-niv',) an island of Hayti, in the Bay of Leogane; area, abt. 228 sq. m.

Gomaives, (Les,) a town of Hayti, abt. 55 m. N.W. of Port-au-Prince.

Gon'dar, a city of Abyssinia, formerly the residence of the emperor, situate on a hill of considerable height.

som war, a city of Abyssinia, formerly the residence of the emperor, situate on a hill of considerable height, 30 miles from Lake Dembea. The houses are only of one story, built of clay, with the roofs that hed in the form of cones. Pop. Unascertained. Lat. 12° 30' N., Lon. 37° 40' E.

Lon. 370 40' E.

Gen'dola, n. [It.] A peculiar kind of boat used at Venice for the same purposes as cabs and carriages in other cities. They are usually about 30 feet long, five in breadth, and light and elegant in form, having high prows, some of which are of elaborate workmanship and exquisitely carved. About the centre a cabin is erected for the passengers, which is carpeted, hung with curtains, and fitted with stuffed cushions. By the auctient republic a law was passed ordaining that all these boats were to be painted black and hung with black cloth, except those for the use of foreign ambassadors



Fig. 1179. — A GONDOLA ON THE GREAT LAGOON, (VENICE.)

and for state purposes. The boatmen who navigate these boats are called *gondolieri*, and were formerly a very important body.

Any flat-bottomed boat used for carrying produce.

A platform-car of unusual length, with or without sides,

—A platform-car of unusum length, when of whence when used on railroads.

Gondoller', n. [Fr., from It. gondoliere.] One who rows a gundola.

"And silent rows the songless gondolier."—Byron.

Gone, pp. of Go, q. v.
Gon'falon, Gon'fanon, n. [It. gonfalone.] A banner; that of the Roman Catholic Church carried in the pope's army. The gonfaloner or standard-bearer was a high officer in the Italian republics of the Middle Ages. Gonfalonier', n. [It. gonfaloniere.] A chief stand-

ard-bearer. [Malay and Jav. gong.] A kind of metallic drum, made of an alloy of copper and tin, shaped into a basin-like form, flat and large, with a rim of but a few inches in depth. The sound of the G. is produced by striking it, while hung by the rim, with a wooden mallet, which puts the metal into an extraordinary state of vibration, and produces a very loud and piercing sound. It is also called Tam-tam.

Gominative, n. [Got.] See Astraians.

Gominative, n. [Gr. gónia, an angle or corner.] (Pal.) A genus of extinct Cephalopods with chambered spiral shells; nearly allied to the ammonites.

Go'nite, in New Hampshire, a post-office of Strafford county.

county.

Gomiom'eter, n. [Gr. gonia, angle, metron, measure.]
An instrument for measuring angles, especially those of crystals. The simplest form consists of two steel blades, crossing each other, and used on the principle that when two lines cross each other the opposite angles are equal. A more accurate instrument, and the one chiefly used by mineralogists, is the reflecting G. of Wollaston, improved by Nauman. This is a more complicated instrument, yet easy of application, and it will measure very small crystals with certainty to within a single minute (1'). The angle is measured by the reflection of the rays of light from the surface of the different faces of the crystal.

Goniomet'ric, Goniomet'rical, a. Of or be longing to the goniometer.

Goniom'etry, n. The art of measuring angles.

Gonoph. (gon'of.) n. [Corruption of gone off.] A thief, a filther; a pickpocket. (Thieves' jargon.)
Gonorrhoes a. n. [Ur. gonorrhoes, from gone, semen, the begetting principle, from genein, to produce, and rhoia, a flow, from rheein, to flow.] (Med.) G., also called Bennorrhoed, is an inflammatory discharge of mucus from the numbrane of the urethra in both sexes; and from that of the urethra in both sexes;

mucus from the membrane of the urethra in both sexes; and from that of the prepuce in man, and the vagina in woman. It is usually caused by the direct communication of sound persons with those already affected. It is a very acute and painful form of disease, and is one of the numerous penalties attending an indiscriminate and impure intercourse of the sexes.

Gomsal'vo, or Gonzalo or Cordova, Hernander D'Aquila, surnamed the Great Captain, was s. near Cordova, in Spain, in 1453. He was of a noble family, and at an early age entered the army. He first distinguished himself in the great war of Ferdinand and Isabella with the Moors, which ended with the conquest of Granada in 1492. His next achievement was the recovery of the kingdom of Naples from the French, who conquered it under Charles VIII. in 1495. When Louis XII. renewed the invasion of Italy, G. was again sent there, and, after under Charles VIII. in 1495. When Louis XII. renewed the invasion of Italy, G. was again sentithere, and, after a temporary division of the country between France and Spain, he again expelled the French, established the Spanish rule, and was named vicercy of Naples. Through the jealousy of Ferdinand, and the calumnies of the courtiers, the Great Captain was deprived of his office, in 1507, when he retired to Granada, and D. there in 1515.

in 1507, when he retired to Granada, and D. there in 1515.

Genrae'ga, a town of N. Italy, 14 m. from Mantua. Manuf. Silk goods. Ppp. 16,337.

Genrae'ga, one of the great historical families of Italy, sovereigns of Mantua from the year 1328, when Luigi Gonzaga was made captain-general and invested with the subreme power, till 1708, when Ferdinand, the last descendant of the eldest branch, died. Mantua was raised into a marquisate by the Emperor Sigismond in 1433, and into a duchy by the Emperor Charles V. in 1530. A collateral branch of the Gonzaga family became dukes of Guastalla from the middle of the 16th century, and became extinct in 1746.

Genrae'les, in Tezu, a S. central co. Area, about 980 sq. m. Rivers. Guadalupe and San Marcus rivers. Surface, level; soil, fertile. Cap. Gonzales. Pop. 1890) 18,016.

—A cap. of the above co., on the Guadalupe river, 68 m. S. E. of Austin, on the Southern Pacific and the San Antonia & Aranasa Pass B. R. Cotton, grain and live stock are largely shipped. Pop. (1897) about 2,050.

Geoch'land, in Virginia, an E. central co. Area, about 280 sq. m. Rivers. James river and some amaller streams. Surface, undulating; soil, fertile. Cap. Goochland Court-House, Pop. (1890) 9,938.

Geoch'land, in Kenachy, a P. O. of Rock Castle co.

Geoch'land, in Kenachy, a P. O. of Rock Castle co.

Geoch'land, in Missouri, a post-village of Cooper co.

Richmond.

Gooch Mills, in Missouri, a post-village of Cooper co, on Little Saline creek, abt. 35 m. N.W. of Jefferson city. Good, in North Caroline, a post-office of Chatham co. Good'all, in Virginia, a post-office of Hanover co. Good'all, in Virginia, a post-office of Hanover co. Good'by, in South Carolina, a township of Ogemaw co. Good'by, in South Carolina, a township of Orangeburg county.

county.

county.

shood, a. [A.8. god, gud; Ger. gut, allied to Gr. agathos; Pers. khub; Ar. khoob.] Benevolent; beneficent; kind; merciful; gracious; loving; affectionate; favorable; sa, a good busband, a good wife.— Humane; worthy; virtuous; pious; religious; conformable to the moral law; as, a pattern of good works.— Beneficial; proper; suitable; fit; convenient; expedient; esasonable; well adapted to the end.—"If you think good." (Bacon.)—Conductive to happiness.

"It is not good that the man should be alone"—Gen. ii. 18.

uld be slown "— Gen. ii. 18. " It is not good that the man sh Valid; sound; firm; complete, or sufficiently perfect in its kind; perfect; uncorrupted; unimpaired

' Make good your accusation." — Smith. Suitable to the tasts or to health; wholesome; salubri-ous; palatable; suited to produce a salutary effect; medi-cinal; salutary; suited to strengthen or assist the health-

ful functions.

"A man first builds a country seat."—Prior.

Then finds the walls not good to eat."—Prior.

Full; complete; useful; valuable; as, good advice.—
Equal; adequate; competent; sufficient; favorable or
convenient for any purpose; suitable; safe; well-qualified; able; skilful; ready; dexterous; as, good for
nothing, good for an emergency.—Promotive of happiness; pleasant; agreeable; cheering; gratifying; prosperous; as, to know what is good for us.—Honorable;
fair; unblemished; unimpeached.

" Silence the knave's repute, the whore's go Cheerful; favorable to happiness. — Great or considerable; as, a good deal of traffic. — Elegant; polite; as, to frequent good company. — Real; serious; not feigned. "Love not in good earnest."—Sheks.

Seasonable; commendable; festive; companionable; social; merry.

"All good fellows, whose beards are gray." — Thuck

Comely; handsome; well-formed.—Mild; pleasant; calm; not irritable; friendly.

In good time, not too fast.—In good south, really, seri-

In good time, not too isst. — In good sonn, reality, seriously. — To make good, to keep: to maintain; as, to make good a retreat; — to confirm; to establish; as, to make good a regument; — to perform; as, to make good a promise; — to supply; as, to make good in one point that which lacks in another.

300d, n. That which contributes to relieve or remove and the to impress a hourings of promise.

pain, or to increase happiness or prosperity. - Benefit;

advantage; welfare; prosperity; advancement of inter-I love my country's good." - Shaks.

-Spiritual advancement or improvement; as, the good of souls. — Earnest; not jest; as, to assert for good. — Moral works; moral qualities; virtue; righteousness.

with as following.

"As good almost kill a man, as kill a good b

—intrj. Well; right.

Good-behavior, (Security for.) (Law.) It consists in a person being bound, with one or more sureties, in an obligation to the State to behave well, or be of good behavior, either generally or specially, for a certain time. If the condition of the said obligation be broken by misbehavior, the party and his sureties be-come debtors to the State for the several sums in which come debtors to the State for the several sums in which they were respectively bound. A justice of the peace may demand security for good behavior, according to his discretion, when he sees cause.

Good'-bye-, Gooden, n. Rolite manners formed by a good education; a polite education.

Good'-bye-, Gooden, n. and interj. [Corrupted from God be with you; or, according to some, from bye, 0. Eng. for way, as though, "I wish you a good journey."] A good way or journey to you; farewell.

Good'-day', n. and interj. A term of salutation on meeting or parting, equivalent to, "I wish you a favorable or prosperous day;" farewell.

Good'-dem', n. and interj. [Corrupt. of good evening.] A form of salutation equivalent to saying, "I wish you a good evening." (o.)

Goodening cess. [in honor of Dr. Goodenough, bishop of Carlisle.] [Bot.] The Goodenia family, an order of plants, alliance Cumpanales, consisting of unimportant herbs, or rarely shrubs. They are principally natives of

herbs, or rarely shrubs. They are principally natives of Australia and the islands of the Southern Ocean. The species Scaoola Tucouda has a soft and spongy pith, which is employed by the Malays to make artificial flowers and ornaments.

Good'farms, in Illinois, a township of Grundy co.; pop. (1897) about 1,00.

| hood-fel'iowship, n. Merry; jovial or lively so-ciety; pleasant, agreeable company; companionable-

need-Friday, n. [A. S. gode fridag; Dut. gode vrijdag; Ger. guter freitag, or charfreitag, the solemn friday.] The Friday before Easter, sacred as the annual commemoration of the crucifixion of our Lord. This day has been observed, from the earliest ages of the Christian Church, as a day of rigid fast and solemn religious ceremonial,—as we learn from the apostolic constitutions, and from Eusebius, who also states that when under Constantine Christianity was established in the Roman Empire, the holding of courts, markets, &c. was under Constantine Christianity was established in the Roman Empire, the holding of courts, markets, &c. was on this day forbidden. In the Roman Catholic Church, the mass of this day differs from all other masses during the year in this, that no consecration of the host takes place, the wafer blessed on the previous day having been retained. This is called Missa presanctificatorum, a mass of the presanctified. At this mass, the altar is stripped of all ornaments, the priests and attendants are robed in black;—the kies of peace is omitted, and the so-called adoration of the cross takes place. The office of the trapers is also recited and at omitted, and the so-called adoration of the cross takes place. The office of the tenebra is also recited, and at the close of the recitation of each lesson from the Lamentations of Jeremy, one of the candles is extinguished until there remains but the paschal candle, which, as a symbol of our Lord's death and burial, is concealed behind, or under the altar. In the Church of Paschall Could Feight is also becaused with number of England Good-Friday is also observed with much so

Good'gious Fac'tory, in South Carolina, a village

of Laurens co.

Good Ground, in New York, a post-village of Suffolk co, on the Long Island R R. Pop. (1897) about 1,000.

Good Har'bor, in Michigan, a P. O. of Leelanaw co.

Good Hope, in Africa. See CAPE or Good Hope.

Good Hope, a fort of British North America, on the Mackenzie river; Lat. 67° 40' N., Lon. 130° 40' W.—OLD Fort Good Hope is about 100 m. further down the same

Good Hope, in Georgia, a post-village of Walton co. Good Hope, in Illinois, a post-town of McDonough co., Pop. (1897) about 450.

Pop. (1897) about 450.

Good Hope, in Mississippi, a post-office of Leake co.

Good Hope, in Ohio, a post-village of Fayette co.,
about 7 m. S.E. of Washington.

—A township of Hocking co.

Good Hope, in Pennsylvania, a post-village of Cum

berland co

Good Hope, in West Virginia, a P. O. of Harrison co.
Good Hope, Bay of, in Alaska, at the head of
Kotzebue Sound; Lat. 66° 30' N., Lon. 161° W. It con-

Kotzebue Sound; Land. Oo So Lang-tains Chamisso Island.
Good'hue, in Minecota, a S.E. co., hordering on Wis-conditions of the Company of th Good'hue, in Minnessda, a S.E. co., bordering on Wisconsin; area, about 755 sq. m. Rivers. Mississippi
(which here expands into Lake Pepin), Cannon, and
Zumbro rivers. Serface, generally level; soil, fertile.
Cap. Red Wing. Php. (1895) 32,268.

—A township of Goodhue co., 9 m. S.W. of Red Wing.

—A post-office of Goodhue co.
Good'-hu'mored, a. A cheerful temper or frame of mind.
Good'-hu'mored, a. Having a cheerful temper and
demeaner.

demeanor.

Good'-hu'moredly, adv. With a cheerful temper; in

Good img's Grove, in Illinois, a post-village of Will co., about 25 m. S.W. of Chicago.
Good Intent', in Pransylvania, a post-office of Wash-

Good'ish, a. Not very good, nor very bad; tolerable; passable; as, a goodish illustration.
Good'iand, in Indiana, a post-village of Newton co., about 48 m. W. of Logansport.
Good'iand, in Michigan, a post-township of Lapeer co., about 55 m. N. of Detroit. Pop. (1894) 1,126.
Good'land, in Miscouri, a post-office of Iron co.
Good'leit aville, in Temessec, a post-village of Davidson co., about 13 m. N. bv W. of Nashville. Pop. 529.
Good'lineas, s. Beauty of form; grace; elegance.

The coefficient of trees delibets the ser."— Hosber.

The coefficient of trees delibets the ser."— Hosber.

The coefficient of trees delibets the ser."— Hosber.

"The goodliness of trees delighteth the eye." — Hot

Goodluck', in New Jersey, a village of Dover town-ship, Ocean co., about 7 m. from Tom's River. Goodly, a. Of a handsome form; beautiful; graceful. " A goodly city is this Antium." - Shake

Pleasant; agreeable; desirable; bulky; swelling; large " Goodly and great, he fails behind his link." — Dry

"Goodly and great, he falls behind his link." — Dryden.
Goodly man, n. A familiar appellation of civility. — A
rustic term of compilment. — A familiar, yet respectful,
appellation of a husband, or of the master of a family. (c.)
Goodlyman, in Georgia, a district of Harris co.
Goodlyman, in Mississippi, a post-office of Holmes co.
Goodlyman'mers, n. pl. Politeness; decorum.
Goodlyman'mers, n. and interj. A form of morning
asituation equivalent to "I wish the morning may be
favoralle or happy to you."
Goodlyma'ture, n. Natural mildness and kindliness of
disposition.

disposition.
Good'.ma'tured, a. Not easily provoked.
Good'.ma'turedly, ade. With mildness of temper.
Good'.mas'turedly, ade. With mildness of temper.
Good'.mas'turedly, ade. With mildness of temper.
Good'.mas., n. The moral qualities which constitute
Christian excellence; moral virtue; religion; kindness; penevolence; beinguity of heart; acts of kindness or
benevolence: charity; humanity exercised.—Benevolence of nature; mercy; favor shown; acts of compassion or mercy.—The physical qualities which constitute value; excellence or perfection.
Good'.might', and unterj. A form of salutation in parting for the night, equivalent to "I wish you a pleasant or agreedle night."

"My native land, good-night!" —Byron Good'rich, S. Griswold. See Parley, Peter. Good'rich, in Michigas, a post-village of Genesse co about 13 m. E. of Flint.

About 13 m. E. of Flint.
Goods, n. pl. Household furniture; personal or movable estate; movables; chattels; effects; wares; merchandise; commodities.
Good'.semse', n. Sound judgment.
Good'.semse', n. Success; prosperity.
Good Spring, in Tensesce, a post-village of Giles co., 6 m. S.W. of Pulsaki.
Good Success Esay, an arm of Le Marie Strait in Terra del Fuego; Lat. 54° 49° S., Lon. 65° 13° W.
Good'-term'perced, a. Having a good disposition.
Good Templars. See Templars, (Good).
Good Templars. See Templars, (Good).
Good'-wille, in Fansylcanu, a P. O. of Lancaster co.
Good'-wille, in Fansylcanu, a P. O. of Lancaster co.
Good'-will, n. (Law.)
The custom of any business or tride,— that interest in it which is sold along with the goods and premises. By disposing of the good-will, the seller binds himself to de everything in his power to advance the interests of his successor in the business, and to recommend him to his customers. It is also usual and to recommend him to his customers. It is also usual to specify that the seller shall not enter upon the same

to specify that the seller shall not enter upon the same business within a certain distance of that which he has sold. Such a contract is good at law, and the party infringing it is liable in damages.

Secodwim Samda. Dangerous sand-banks in the Strait of Dover, off the S.E. coast of Kent, England. The roadstead termed the Downs lies between them and the mainland. Length, abt. 10 miles.

Good'-womam, n. Same as good-wife, but generally applied only to females in the lower walks of life.

Good'y, n. [Probably a corruption of good-wife.] A term of partial civility, mostly applied to aged females.—Confections; bonlons; sa, to give goodies to the little oues.

Good'year, Charlella, an American inventor, n. at New

—Confections; bonbons; as, to give goodies to the littleoues. Good'year, Charles, an American inventor, B. at New Haven, Conn., in 1890. He was joined with his father in the hardware trade at Philadelphia, when, in 1830, he turned his attention to the improvement of the Indiarubber manufacture. In 1836, he discovered a method of treating the surface of native Indiarubber with a preparation of nitric acid, which produced favorable results. Improving upon thia, G. in 1839 discovered the process of vulcanizing the rubber, for which he took out a patent in this country. Attempts to secure sole natants in valcanging the rubber, for which ne book out a patents in this country. Attempts to secure sole patents in France and England were nullified by legal informalities. Mr. G. by his admirable invention amassed considerable wealth, besides receiving the grand medal at the Paris Exposition, and also the ribbon of the Legion of Honor. Died July 1, 1863.

of Honor. Died July 1, 1880.
Goodlycar's Bar, in California, a post mining village of Sierra co.
Goodlycar's Bar, in California, a post mining village of Sierra co.
Goodlycar's, a. (Bot.) A genus of herbs, order Orchidacese. The Rattlesnake Plantan, G. pubsecess, found in woods in Canada and U. S., is remarkable for its leaves, which are all radical and of a dark green, reticulated above with white veins. Its flowers, which blossom in July, are white, in a terminal, oblong, cylindrical spike; lip roundish, saccate, inflated.
Gooles'boro, in Texas, a post-office of Titus co.
Gooles'boro, in otherwise than for the purpose of navigation and irri-

GOO'MEASS PRES, a pass in Bussahir, across the S. range of the Himalaya, 16,000 feet above the sea.

GOOTOO', n. [Hind. gurs], a spiritual teacher; Same.
gurs, teacher.] A religious or spiritual teacher among the Hindoos.

loos'ander, n. [C (Zod.) See Mergus. [Corrupted from goose and gander.]

(ZOL.) See MERGUS.

GROUDE, n.; pl. CHEER. [A. S. gos; Icel. gas; Dan. gas;
Ger. gans; Let. anser.] (ZOL.) See ANEXERES.

—A silly person; a simpleton.

—A tailor's amouthing-iron, the handle of which resembles somewhat the neck of a goose.

"Come in, tailor; here you may roast your goose." — Shain. (Games.) A game with cards and dice formerly played to a considerable extent in England, but new fallen into desuetude.

"The royal game of goose was there to view." — Goldenith.

Goose berry, n. [Most probably corrupted from crossberry, grossberry, or gorseberry, from gorze, furse or whin, and so named either from the prickly nature of the shrub, or from the bristly hairs on the surface of the fruit, especially in its native state.] (Bot.) A well-known garden-fruit, the produce of Ribes grossakres. See Ribes.

See Ribes.

Geome berry fool, n. (Conkery.) A dish made of gooseberries which have first been scalded, and afterwards beaten up or mashed with cream.

Geome berry lailands, a small group of islands on the E coast of Bonaviata Bay, Newfoundland.

Geome Creek, in Michigan. See Raisin River.

Geome Creek, in Michigan. See Raisin River.

Geome Creek, in W. Firginia, enters the Potomac River abt. 4 m. E. of Leesburg.

Geome Creek, in W. Firginia, a P. O. of Ritchie co.

Geome Creek, in M. A peculiar condition of the skin caused by fear, by cold, &c. — Known also as geometrin, q. v.

q. v.

Goose Island, of Lower Canada, in the St. LawrescoRiver, abt. 13 m. N.E. of the island of Orleans.

Goose Laland, off the S. coast of Terra del Fuego in
Christmas Sound.

Christmas Sound.

Goose Eslamd, in Illinois, a P. O. of Alexander co.

Goose'-meck, a. A piece of iron bent like the neck
of a goose, and used for various purposes; as, the goosek of a hoe.

(Nest.) The plece of iron by means of which and a
clamp or cycloit the inboard end of a yard or boom is
made fast to the mast.

(Med.) A pine in the form of the letter S.

made fast to the mast.

(Moch.) A pipe in the form of the letter S.

Goose Neek, in North Carolina, a P. O. of Ritchie co.

Goose Neets, in North Carolina, a township of Martin co.

Goose (quill.), n. The large feather or quill of a goose,
or a pen made with it.

Goose ery, n. A place for keeping goese.

Silliness; imbecility of mind; folly.

Goose-akin, n. That condition of the human skin in
which, from cold or fear, it presents an appearance similar to that of a goose dressed for cooking.

Goose-wing, n. (Naul.) The clew or lower corner
of a ship's mainsail or fore-sail, when the middle part is
furled.

Gooty, (por/te.) a strong fort and town of British India,

Gooty, (gor'te,) a strong fort and town of British Indian the presidency of Madras, 50 m. from Bellary. The

in the presidency of Madras, 50 m. from Bellary. They stand on the mountain upwards of 2,000 feet above the level of the sea. Php. Of civilians, 5,000.

Go'-out, Gowr, n. A sluice in dame or embankments against the sea, intended to let out the land-waters at the ebb, and to prevent the ingress of the sea-water when the tide floods.

when the tide floods.

Gophi'er, a. [Fr. gaufra.] (Zoll.) A species of squirel. See Saccontide, and Sperinophilits.

(Script.) [Heb.] A species of wood from which the ark of Noah was built. The probable identity of the gopher-wood of Scripture with the cypress (q. v.) is maintained partly on account of the qualities of the wood, and partly from the agreement of the radical cosonants of the two names.

Gophier Creek, in Lova, enters the Missouri River from Pottawattomie co.

Gophier at wom of Würtemberg, 28 m. from Unamer.

from Pottawattomie co.

Gop'pingen, a town of Wirtemberg, 28 m. from Una
Manuf. Woollen stuffa, paper, &c. Pop. (1895) 9536.

Go'raum, in Punapleania, a post-village of York co. 18
m. S.E. of York.

Go'raims, in Pussaplenisis, a post-village of York co. 18 m. S.E. of York.

Gor'-bellied, a. [A.S. gor, dirt, mud, dung, and belly] Gross-bellied; big-bellied; having a prominent belly; as, a "gorbellied knave."—Shaks.

Gor'-cock, n. [Either from gore, furze, from gore, blood, i.e. red, or the syllable gor may be from the sound made by the bird.] (Zoil.) The red ptarmign, Lagopus Scoticus, a British species of grouse. Gor-cow, n. [A.S. gor, mud, dung, dirt.] (Zoil.) A name applied to the carrion-crow, Corous corons.

Gordiam, (gor'de-dn.) a. Pertaining or relating to Gordius Phrygia, or to the Gordian Knor, q. v.—Intricate; complicated; difficult.

Gor'diam Knock. (Anc. Hist.) A knot made in the harness of a chariot by Gordius, king of Phrygia, which knot was so intricate as to baffie every attempt to unic it, or even to find out where it began or ended. The oracle of the day having declared that he who succeeded in solving the complication should be the conquery of the world, Alexander the Great determined to effect if possible. Deliberating that if he failed his follows would be dispirited, he determined to separate it with sword, and with one blow he cut the momentous & K. which was fraught with such interest to the whole world. his sword, and with one blow he cut the momentous 6. A, which was fraught with such interest to the whole world According to Quintus Curtius, he thus fulfilled the oracle or evaded it; — but Aristobulus, however, gives a different version of the affair. The expression cutting Digitized by

the Gordian knot has consequently been used by the moderns to signify eluding any difficulty or task by bold

moderos to signify eluding any difficulty or task by bold or unusual means.

Gerdia'mus, or Geor'diam, the name of three Roman emperors. The first, or elder, Marcus Anvorus Africancy, descended from Trajan, proclaimed while proconsul in Africa, along with his son, who, being of the same name, is known as Gordian the Younger. The latter was killed in a battle, six weeks after their ascension, upon hearing of which Gordianus the Elder strangled himself, A. D. 236. The third of the name, Marcus Anvorus Prus Gordianus, was a grandson of the preceding, and was proclaimed enus, after their death. the preceding, and was proclaimed emp. after their death, and murdered after a reign of aix years, in the 20th year

of his age, 244.

Gerdius, or Gordiact Da, n. pl. (Zozl.) A genus or family of worms, order Nematoids, containing those which in their larva state inhabit other animals, but not in the adult. They are long, thread-like or hair-like in appearance, and live in fresh water and mud. They are often called hair-worms, and persons ignorant of their history suppose them to be horse-hairs trans-

of their history suppose them to be horse-hairs transformed into worms.

Gerdom, Lord George, R. in London, 1750, distinguished as a political character towards the close of the last century, and noted for his arrest on a charge of high treason, in consequence of the tumults (known as the Gordom Riots) provoked by his assemblies of the people to oppose the Catholic Relief bill, D. in prison, 1793.

Gerdom, (Lucy Austin,) Lady Durr, an English authores, and the wife of Sir Alex Duff Gordon, Bart. This lady, who was esteemed one of the most talented women in Europe, D. 1868. Her chief original works are the Amber Witch: The French in Algiers; Skila and Vanesa; Letters from the Cupe of Good Hope; and Letters from Engypt (1865); the latter being an exquisitely faithful transcript of Egyptian life, customs, and seenery.

Cenery.

Gor'don, in Florida, a post-office of Walton co.

Gor'don, in Georgia, a N. W. co.; area, about 351 aq. m.

Rivers. Oostenaula river, and some smaller streams.

Surface, diversified; soil, very fertile. County-town,

(alhoun. Pop. (1890) 12,758.

A post-village of Wilkinson co., about 21 m. E. of Macon.

Gor'don, in Louisiana, a post-office of Claiborne co.

Gor'don, in Viol. a post-office of Darke co., about 21

m. N. W. of Dayton.

Gor'don, in Texas, a post-town of Palo Pinto co.

Gor'don, in Texas, a post-town of Palo Pinto co.

Gordon, in comm.

M. W. of Dayton.

Gordon, in Pennsylvania, a post-vill. of Schuylkill co.

Gordon, in Texas, a post-town of Palo Pinto co.

Gordon, in West Virginia, a P. O. of Boone co.

Gordon, in Wisconsin, a post-village of Douglas co.,

on C. St. P., M. & O. R. B.

Gordonia, n. (Bot.) A genus of plants, order Ternstrimiaces. The Frank
"subsacens (Fig.

linia, G. pubescens (Fig. 1180), is an American tree, 30-50 feet high in Ga., and Florida, or an ornamental shrub in cultivation at the North, admired for its large, white flowers, with yellow stamens and rich

fragrance.

Gordon's Ferry, in

Jose, a post-office of Jack-

son county.

Gor'don's Springs. in Georgia, a post-office of Whitfield co., about 10 m.

W. of Dalton.

Gor'donsville, in Pennnjicania, a post-village of

Gordomsville, in Pensylvania, a post-village of Gardonia Publicana.

Lancaster county.

Gordomsville, in Tennessee, a post-village of Smith co.

Gordomsville, in Virginia, a post-village of Orange
co., about 70 m. N. W. of Richmond. Pop. (1890) 962.

Gordom Valley, in California, a village of Yolo co.,
about 45 m. N. W. of Sacramento.

Gore, a. [A.B. gor, clotted blood; W. gôr; Gr. ichôr.]

Blood; more especially clotted or congessed blood.

[A.B. gar, a javelin, a dart, from its pointed or triangular shape: Icel. geiri, a three-cornered piece of cloth.]

A wedge-shaped or triangular piece of cloth sewed into a garment to widen it in any part.— A pisce of land triangular in shape.

(Her.) A charge consisting of one-

triangular in shape.
(Her.) A charge consisting of onethird of the shield cut off by two
arched lines, one drawn from the
denter or sinister chief, and the other
from the bottom of the escutcheon,
meeting in the fees point. A Gore
sinister is enumerated by heralds as
one of the abatements or marks of
dishonor borne for unknightly conduct. See Gresser.

duct. See Guess.

Gore, v. a. To cut in a triangular Fig. 1181.—conz. form.—To stab or pierce with a pointed instrument, as a spear, or with the point of a born.

'And poles with pointed steel their free in battle gore."—Dr

"And poses with pointed steel their focal nestite gove."—Drysees.—To pierce with the point of a horn.

GORG, CERISTOPHER, governor of the State of Massachusetta, a at Boston, 1758. In 1789, Washington appointed him the first United States attorney for the district of Massachusetts; and in 1796 he was welected by the president as the colleague of the celebrated William Pinckney, to settle the American claims upon England for spoilations. In this situlean claims upon England for spoliations. In this situation be evinced his wonted energy and talent, and was very successful in his mission. In 1803 he was left in London as charge d'affaires, when Rufus King, the

American minister, returned to America. In 1809 he American minister, returned to America. In 1809 he was chosen governor of Massachusetts, but retained his dignity only for one year. In 1814 he was called to the Senate of the Union, and served in this capacity for three years, when he retired from public affairs. D. 1827.

OFFC, CATHARING GRACE, an English novelist, B. in Longuetters.

don abt. 1800. She was a rapid and prolific writer, and her works fill about 200 vols. Most of her novels are clever pictures of fashionable life, and they sparkle with wit. She wrote also some poems and plays. Among her best tales are reckoned Cecil, Mrs. Armyten, and The Hamiltons. She was no less celebrated for her wit and brilliant social qualities than for her literary works. During her last years she was blind, and she died in retirement at Linwood, 1861.

Gore, a dist. of Upper Canada, on Lake Ontario, com-prising the cos. of Halton and Wentworth; pop. abt. 45,000.

Gore, in Ohio, a post-office of Hocking co.

Hore, in Ohio, a post-office of Hocking co.

Horee', a town and small island, or rather rock, off the
coast of Africa, little more than a mile from Cape Verd.

It produces nothing; and its importance is solely derived
from its inaccessible situation, on a naked rock of black
basalt, rising to the height of 300 feet, Lat. 14° 36' N,
Lon. 17° 22' W.—This island was first occupied by the
Dutch, and afterwards was taken by the French, to Lon. 170 22' W.—This island was first occupied by the Dutch, and afterwards was taken by the French, to whom it was finally ceded by the treaty of Nimeguen. It is now the bulwark of the possessions of the French in Africa. It is the entrepôt for all the French trade with the opposite coast of Africa. Pop. 6,114, comprising about 100 Europeans.

30re Island, or St. Matthew, an island in Behring See; Lat. 600 18' N. Lon. 1720 4' W. It is about midway between America and Asia.

Gore ville, in *Illinois*, a post-office of Johnson co. Gorgansville, in *N. Curolina*, a village of Ruther

ford co. George, (pori,) n. [Fr.; It. gorgia; Lat. gurges, a whirlpool, gurgulio, the gullet; Gr. gargareon, formed from
the gurgiling sound of water rushing through a narrow
passage; Heb. gargeroth, the throat.] The throat; the
gullet; the canal of the neck by which food passes to
the stomach.—A narrow passage between hills or
reportation.

the stomach.—A narrow passage between hills or mountains.

(Fort.) The entrance of any work, or that part which is open to the rear between the inner extremities of its flanks or face. (See Fig. 745.) Thus the gorge of a ravelin is the space facing the main works behind it, between the extremities of its faces, which meet in a salient angle towards the front; and the gorge of a bastion is that side of the irregular pentagon which forms the outline of the work, and lies between the curtains on either side. The lines formed by the prolongation of the curtains on either side of a bastion to a noint in its capital within the interior of the work, iongauon of the curtains on either side of a bastion to a point in its capital within the interior of the work, are called its demi-gorges. It is also the name of a concave moulding used in architecture, and the entrance to a narrow pass or defile between mountains.

(Arch.) Same as CAVETTE, q. v.

Gorge, v. a. To swallow with greediness.

"The fish has gorged the book."-John

To fill up to the throat; to glut; to satiate. "Being with his presence glutted, gorged, and full."-Shake.

"Being with his presence glusted, gerged, and full."—Racks.

—c. n. To feed greedily or ravenously.

Georged, a. Having a gorge or throat; as, the shrillgorged lark.

(Her.) A lion or other animal is said to be gorged
when it has a crown by way of collar round its neck.

Giorged, or Gorger, Arrhur, an Hungarian general, s.

1818. After completing his studies at the military
school at Tuln, he was appointed to a commission in
the Hungarian body-guard at Vienna, which service he
abandoned to study chemistry at Prague. The news of
the insurrection in Hungary (1848) called him back to
military duties, and hastening to Buds-Pesth, he placed
his sword at the disposal of the Hungarian ministry.
The firmness of his conduct attracted the attention of
Kossuth, and until he became his rival, G. appears to
have been his favorite. After the battle of Schwechat,
he assumed the chief command of the Hungarian army,
and in that position showed great military talents.
Differences, however, arose between himself and the
civil authorities; twice he was superseded in his command, and on resuming it, was alternately victor and
vanquished. On the resignation of the governor and
council, Aug. 11, 1849, Keesuth made Gen. G. dictator
in his place. Shortly after this, the Hungarian forces
laid down their arms. For this G. has been branded as
a traitor, though the state of affairs seemed desperate

in his place. Shortly after this, the Hungarian forces laid down their arms. For this G. has been branded as a traitor, though the state of affairs seemed desperate enough to warrant submission. The most suspicious part of the affair is the leniency with which he was treated by the victors. He went to Klagenfurt, was afterwards allowed to leave on parole, and pursued his favorite study of chemistry at Pesth. A narrative of his connection with the insurrection, My Life and acts is Hungary, appeared in 1861. 280 of his former comrades, in 1884, presented him with a declaration, exonorating him from a charge of treachery made in 1849. Gracing hum, from a charge of treachery made in 1849. Gracing hum, from a charge of treachery as a rufi, or ornament for the throat or neck of females,—hence, gaudy, fannting. Showy: fine: splendid: glittering with tarring with the state of the stat

ment for the throat of neck of females,—hence, gaudy figurating.] Showy; fine; splendid; glittering with gay colors; magnificent; as, "the gorgeous East."—Milton Goorgeously, adv. With showy magnificence; splendidly. Spale.

didly; finely.

Gor'geousness, s. Show of dress or ornament; splendor of raiment or dress.

dor ges. Sir Ferdinando, lord-proprietary of the English colony of Maine, was n of a noble family in England about the middle of the 16th century. After serving

during the war against Spain, G. determined to leave his native country and become a lauded proprietor "be-yond sea." He accordingly fitted out an expedition in during the war against Spain, G. determined to leave his native country and become a landed proprietor "beyond sea." He accordingly fitted out an expedition in 1620, and received a royal charter of incorporation for the "governing of New England in America." Landing in Maine, he for some years ruled it as governor-general, and ultimately succeeded in obtaining from Charles I. a charter constituting him lord-proprietary, with almost sovereign powers. When the 4 New England colonies formed a confederacy in 1643, G.'s settlements were excluded, because Sir Ferdinando was then in England fighting as a royalist against the Purltan cause. After his death in 1647, the settlement of Maine submitted to the jurisdiction of Massachusetts.

Gorget, (gor'jel.) n. [Fr. gorgette, from gorge, the throat.]
A plece of body-armor, either scale-work or plate, for the protection of the throat. It appears to have been first employed early in the 14th century. The camail, or throat-covering of chain-mail, which is sometimes called the gorget of scali, belonged more to the helmet than to the body-armor. In the 17th century, the G. was worn without any other body-armor. It is still worn by the officers of the French Infantry.

(Surg.) An instrument used in the operation of lithotomy.

(Sury.) An instrument used in the operation of li-thotomy.

Ger'gias, Leontinus, a celebrated orator of the school of Empedocles, native of Leontinum, in Sicily; lived 417 B. C. A golden statue was erected to his honor at Delphi, and Plato has given his name to one of his Dialogues.

Ger'gom, n.; pl. Gorgons. (Myth.) One of the three celebrated sisters, daughters of Phorcys and Ceto. Their names were Sheno, Euryale, and Medusa, all of whom were immortal except Medusa. According to the mythologists, their hair was entwined with serpents, their hands were brass, their body was covered with impenetrable scales, and their teeth were as long as the tusks of a wild boar. They were so frightful that they iner nanus were brass, their body was covered with impenetrable scales, and their teeth were as long as the tusks of a wild boar. They were so frightful that they turned to stone all those on whom they fixed their eyes. Mythologists differ in their accounts of them. They were conquered by Perseus, who, it is said, was furnished by different deities with weapons which he afterwards returned to them. The head of Medusa remained in his hands; and after he had finished ail his laborious expeditions, he gave it to Minerva, who placed it on her segis, with which she turned into stone all such as fixed their eyes upon it. It is said, that, after the conquest of the G., Perseus took his flight in the air towards Ethiopia, and that the drops of blood which fell to the ground from Medusa's head were changed into serpents, which have ever since infested the sandy deserts of Libya. The horse Pegasus also arose from the blood of Medusa, as well as Chyssor with his golden sword. Hesiod fixed the residence of the G. in the west, Eschylus in Scythia, and Ovid in Libya, near the lake Triton. Homer speaks but of one Gorgon.—Auxthing very negly or horrid. Gorgon. Anything very ugly or horrid.

—Anything very ngly or north.

"Gorgons and hydras and chimeras dire."—Miten.

—a. Very ugly or terrible in aspect.

Gorgo ma, a small island in the Mediterranean Sea,
16 m. from the Tuscan coast, in the vicinity of which
immense numbers of anhovies are taken. Extent, 2 m.

immense numbers of ancovices are taken. Extent, 2 m, long, by an equal width.

Gorgo'ma, in the Republic of Colombia, an island in the Bay of Choco, abt. 110 m. S.W. of Buenaventura; Lat. 29 57 N., Lon. 789 25' W.

—A village on the isthmus of Panama, abt. 20 m. N.W. of the cities of Panama.

the city of Panama.

the city of Panama.

Gorgona ceea, n. (Zozl.) A sub-order of Alcyonaria, embracing polyps which are cylindrical, short, connected laterally, and which secrete a solid central axis. The forms are excessively varied, and often extremely delicate

forms are excessively varied, and often extremely delicate and beautiful. They abound in tropical seas. Gorgoviecan, a. Bame as Gorgoviac, q. v. Gorgome'ia, n. pl. [Gr. gorgomeia, i. e. gorgosis, pertaining to the Gorgon.] (Arch.) Carvings of masks imitating the Gorgon, or Meduas's head.
Gorgoviala, n. Gorgoviadae, n. pl. (Zoll.) A genus and family of the sub-order Gorgonacca, comprising branched polyps, which have a tendency to spread in a plane, forming a flattened or fan-shaped front, with a horn-like axis.
Gorgovian, a. Pertaining to or resembling a Gorgon.

gon.

Gorgomilla, (gôr-go-nell'yd.) an island of Ecuador, in
the Pacific Ocean off Point Manglares.

Gorgomine, v. a. To render utterly affrighted; te
make stony hard or stiff, as at sight of the Medusa.

Gorgophome, (gor-gof-ō-ne.) (Myth.) A daughter of
Perseus and Andromeda, who married Perseus, king
of Messenia. After the death of Perseus ahe married
Ebalus. She is the first whom the mythologists mention at having had a second busheaped.

tion as having had a second husband.

tion as having had a second husband.

Gorgophora, (propofora.) (Myth.) A surname of
Minerva, from her segis (Fig. 38), on which was the head
of the Gorgon Medusa.

Gorhama (po'rom), in Mosine, a post-town of Cumberland co., about 10 m. W. by N. of Portland. Mossef.

Woollens, carpets, and powder. Pop. (1897) about 3,001.

Gorhama. in New Hampshire, a post-town of Coos co.
Pop. (1890) 1.710.

Woollens, carpets, and powder. App. Atoms of Coos co. For (1890) 1,710.

Gorhams, in New York, a post-town and township of Ontario co., on Canandaigna lake, about 12 m. W.S.W. of Geneva. Pop. (1897) about 2,460.

Gorhams, in Ohio, a township of Fulton co., on the

Gorilla, n. (Zoll.) A species of large ape which inhabits Western Africa, and is generally allied to the Chimpanzee to compose the genus Troylodytes, although Geofirey St. Hilaire has endeavored to establish a separate genus for it. For a great number of years there was a



vague tradition, unsubstantiated by reliable evidence, that apes of great size were to be seen on the west coast of Africa. It was not, however, till 1847 that the gorilla absolutely became known to naturalists. A skull of one of these large apes was sent to Dr. Savage, of Boston, by Dr. Wilson, an American missionary on the Gabour, till of the property of the pro vague tradition, unsubstantiated by reliable evidence, that apes of great size were to be seen on the west coast of Africa. It was not, however, till 1847 that the gorilla absolutely became known to naturalists. A skull of one of these large apes was sent to Dr. Savage, of Boston, by Dr. Wilson, an American missionary on the Gaboon river. Since that period skeletons and skins of the G. have not only been received, but also considerable information concerning the animal's habits and mode of living. M. Du Chaillu, in his Explorations and Adventures in Equatorial Africa, first described the appearance and habits of the G. in its native haunts; and, though his statements were greatly doubted, they have since been statements were greatly doubted, they have since been abundantly confirmed by other African explorers and travellers of more recent experience. The main points of difference between the

G. and the chimnanzes are as follows: The go-rilla is much longer than the latter animal; the ordinary height of a full-grown male is between 5 feet 6 inches and 5 feet 8 5 feet 6 inches and 5 feet 8 inches, and it is probable that many of the largest size exceed six feet in height. Its strength is tremendous, and its skeleton indicates great power in the jaws and limbs. The bony ridges above the eyes are very promi-nent, and the skull of the male exhibits a large occipital ridge on the top of the head. The brain is, small, and the nasal bones project more than in the chimpanses; these peculiarities give to the animal a bideous resemblance to the human face. The jaws and lower parts of the face project very much, and the teeth do not form an uninter-rupted series, as in man. rupted series, as in main.
The canine teeth are very large, and the molars bear a greater proportion to the incisors,—thus again approaching the features of a human being.



again approximing the features of a human being. It is very broad across the shoulders, has thirteen pairs of riba, and approaches nearer to the human form in the shape of the pelvis than any other aps. The legs, although shorter in proportion than those of a man, are longer than those of the chimpanses. When standing erect, the arms nearly reach the knees. The feet are formed for walking on the ground, and the great toe is a true thumb. The hands are remarkable for their great size and strength, the fingers being short but very thick. The skin of the gorilla is black in color and covered with dark-gray hair, which changes to a tawny brown on the head. The hair is longest on the arms. The face is hairy, but has a been a short but large and wide, and porilla is black in color and covered with dark-gray hair, which changes to a tawny brown on the head. The hair is longest on the arms. The face is hairy, but the chest is bare. The mouth is large and wide, and there is scarcely any appearance of neck. The eyes are much sunk, and in general the countenance is marked by a ferocious scowil. It is a voracious feeder, its food being exclusively vegetable; and its belly is very large and prominent. Gorillas are not gregarious in their habits; they generally live on the ground, but spend much of their time in climbing trees in search of food. Their immense strength enables them to defend themselves against beasts of prey. They live in the densest parts of the tropical forests, and are much dreaded by the inhabitants. As yet the gorilla has not been amed, and it would appear as if it were incapable of being so in an adult state. A few young gorillas have been brought to Europe, but pulmonary disease son carried them off. The G. is not gregarious in habit, except to the extent that the young remain with the parents until of adult size. In walking they are rarely seen erect, the bady being bent forward, and the long arms reaching the ground, progress being made by a sort of swinging motion between the arms. The G. is not so ferocious as it has been considered, usually seeks, safety in flight, will not attack man unless cornered or wounded and even then to the resistant to estable.

not so revocious as it has been considered, usually seeks safety in flight, will not attack man unless cornered of wounded, and even then is not persistent in attack.

Goring, s. [From Gore.] A pricking; a puncture.

Goring—cloth, s. (Naw.) A piece of canvas cut ob liquely and put in to add to the breadth of a sail; a gore Highely and put in to add to the breadth of a sail; a gore. Go'rits, a town of Austria, cap. dist. Gorits, on the Lisonzo, 20 m. N.W. of Trieste. Measef. Leather, earthenware, confectionery and rosoglio. The most extensive printing establishment for Rebrew books is to be found in G., whence the entire East is supplied. Pop. 16,659. Gor'kha, a town of Nepaul, 53 m. W. of Khatmandu, Lat. 279 52° N., Lon. 84° 25° E. Gor'kuum, a fortified city of S. Holland, on the Meuse, 21 m. S.E. of Rotterdam. Mansef. Hemp; with an extensive market for grain and fish. Pop. 10,400. Gor'kuum, a fortified city of Prussian Silesia, on the Neisse, 48 m. W. of Liegnitz. Mansef. Clotha, linens, lace, ribbon and hats. Pop. (1885) 66,800. Gor'mam, in Missecola, a township of Otter tail co. Gor'mam, in Tezza, a post-village of Eastlake co. Gor'mand, n. Fr. gourmand; W. gor, excess; gormand, tending to overfill; gormodd, excess, overmuch.] A greedy or ravenous eater; a glutton; a gourmand.—a. Gluttonous; voracious.

Gluttonous; voracious.

Act or habit of eating greedily and voraciously. Goroguea, or Gurguea, (gorogd'a,) a river of Brazil, joins the Parahiba abt. 95 m. N.N.W. of Ociras

Brazii, joins the resumments and the second of Length, abt. 820 m.
Gorse, a. [A. S. gorst, furze.] (Bot.) See ULEX.
Gorsuch's Mills, in Maryland, a post-office of Balti-

Gor'sy, a. Abounding in, or recembling gorse; as, the gorsy heath.

gorsy heath.

Gort, a town of Ireland, in co. Galway, Connaught, abt. 16 m. N.N. & of Ennis.

Gortschalkoff, (gortschalkoff,) the name of three Russian brother princes, two of whom distinguished themselves as military commanders, and one as a diplomatist.

Derical Property of the Control of Prince Perrar, B. 1790, a military commander, took part in the Russian wars against Turkey, and in 1839 was made governor of Eastern Siberia. In 1843 he became general of infantry, and in 1851 retired from service.—Prince Michaelt, B. 1795, played a prominent part in many of the Russian wars, and in 1855 succeeded Prince Menschikoff in the command of the Russian wars. ceeded Prince Menschikoff in the command of the Russian forces in the Crimea. He superintended the defence of Sebastopol, which, however, he was at last forced to evacuate, making a masterly retreat. D. 1861. — Prince ALEXANDER, the diplomatist, B. 1800, represented Russia at various European courts, and in 1856 negotisted the peace between Russia and the Western powers.

Goruel poore, Gorusl-poor.) a fertile district of British India, pres. Beugal, bounded by Nepaul, Oude, Sarun, and Azinghur. Area, 7,346 sq. m. Pop. 2,640,000. — Its cap., of the same name, stands on the Raptee, 420 m. N.E. of Calcutta; pop. 5,600.

Geory, (gore,) a. [From Gorz, q. v.] Covered with congested or clotted blood; bloody; murderous.

Calcutts; pop. 5,600. [From Gore, q.v.] Covered with congesied or clotted blood; bloody; murderons. le 'g Dew, a term frequently applied to the dusky red film seen upon the damp walls of cellars, or other moist situations. Its disagreeable and alarming nature is due to the unplessant fact of its resembling the stains of blood.

to the unpressant fact of its resembling the stains of blood.

Gos'hawk, n. [A. 8. goshafoe, from gos, a goose, and hafoe, a hawk.] (Zool.) See Astun.

Go'shew. (Script.) That tract of country in Egypt which was inhabited by the Israelites from the time of Jacob to that of Moses. It was probably the tract lying east of the Pelusian arm of the Nile, towards Arabia. It appears to have reached to the Nile, (Ez. i. 22; ii. 3, since the Jews ate fish in abundance, (Num. xi. 5,) and practised artificial irrigation, (Deut. xi. 10.) It was near Heliopolis and Ramesea, and not far from the capital of Egypt, (Gen. xiv. 10; xivii. 11; Ez. 8-12.) It was a part of "the best of the land," at least for the pastoral Hebrews, (Gen. xiv. 34,) and was evidently better watered and more fertile than at present. — G. was also the name of a city and territory in the mountains of Juda.

Go'shem, in Consecticut, a post-village and township of Litchfield county, about 30 miles W. by N. of Hartford.

Go'shem, in Georgia, a post-village of Lincoln co., abt.

Glo'sheen, in New Jersey, a post-village of Cape May co.—A village of Coana co.
Glo'sheen, in New York, a post-village and township, cap.
of Orange co., about 60 m. N. N.W. of New York City.
Pop. of village (1897) about 3,100.
Glo'sheem, in Ohio, a township of Auglaize co.
—A township of Champaign co.
—A township of Champaign co.
—A post-village and township of Clermont co., about 24 m. E.N.E. of Cincinnati.
—A township of Hardin co.

A township of Hardin co.

A township of Mahoning co. A township of Tuscarawas co.

Go'shem, in Pensaylcania, a former township of Chester co, now divided into East and West Goshen.

—A township of Clearfield co.

—A post-village of Lancaster co., about 58 m. E.S.E. of Harrisburg.

Harrisburg.

Go'shen, in Utah, a post-village of Utah co., on Utah
Lake, about 28 m. 8.8.W. of Provo.

Go'shen, in Vermont, a thriving township of Addison

county.
Go'shem, or Goshem Bridge, in Virginia, a postvillage of Rockbridge co., abt. 32 m. W.S.W. of Stanuton.
Go'shem Creek, in N. Carolina, enters the Cape Fear
River in Duplin co.
Go'shemite, n. (Min.) A colorless or white variety of
beryl from Goshen, Mass.—See Brayt..
Go'shemville, in Pennsylvania, a P. O. of Chester co.
Go'shem ville, in Pennsylvania, in Hanover, on the

Gose, 4 m. S.E. of Hildesheim. Manuf. Vitriol, carpets, leather, shot, and hardware. Pop. 9,440.

Gos larite, n. (Min.) A rare native sulphate of sine or white vitriol. It is formed by the decomposition of blende, and is found in the pussages of mines. Lestre vitreous. Color white, reddish, bluish. Sp. gr. 2056. Comp. Sulph. acid 27.9, oxide of zinc 28.2, water 43.9.

Gos ling, n. [A. S. gos, a goose, and the diminutive termination ling.] A young goose; a goose not fully grown.

grown.

—A catkin on nut- and pine-trees.

Ges pell, n. [A. 8. godspell — god, good, and spel, spell, history, story, tidings.] The whole doctrine of the Christan religion;— more particularly, one of the first backs containing an account of the life and teachings of Christ, written by Matthew, Mark, Luke, and John, and of which the authenticity rests upon the clearest cridence. The extent anuivous granels forwing a part. of which the anthenticity rests upon the clearest cridence. The extant spurious gospels, forming a part of the apocrypha of the New Testament, are, "The Histery of Joseph the Carpenter," the "Gospel of the Infancy," the "Gospel of Thomas the Israelite," "The Protevangelion" of James, the "Gospel of the Nativity of Mary," and the "Gospel of Nicodemus, or Acts of Pilate." There were many others that are mentioned by the Church Fathers, but which are lost.

-a. Pertaining to the gospel; accordant with the dectrines contained in the gospel; as, gospel truth, gospal rightcounsess.

righteoneness.

righteousness.

Gos'peler, n. He who reads in English the gospel to the people.

Gos'pel-gos'sip, n. One who, with over-officious zeal, runs about to lecture his neighbors upon matters pertaining to religion.

Gos'pel-light, n. The truths of the evangely; the new doctrine, as contradistinguished from that of the Church of Rome.

Chas'mall-worth.

Church of Rome.

Goe'pel-truth, n. The truths or doctrines of the gospel; certain truth.

"I assure you this as gospel-truth."—Swift.

Goe'pert, a fortified city and port of England, in Hampshire, 1½ m. W. of Portsmouth, from which it is separated by an arm of the sea; pop. 8,250.

Goe'pert, in Alabama, a village of Clarke co., on the Alabama River, abt. 100 m. above Mobile.

Goespert, in Indiana, a post-village of Owen co., abt. 45 m. 8.W. of Indianapolis.

Goespert, in Indianapolis.

Gosport, in New Hampehire, a township of Rocking

ham co.
Gosport, in Virginia. See Portemourn.
Goss, n. Same as Gorre, q. v.
Gossammer, n. [Lat. gorryrism, the cotton-tree.] A
light filmentous substance, which often fills the atmophere to a remarkable degree during fine weather in the
latter part of autumn, or is spread over the whole face
of the ground, stretching from leaf to leaf, and from
plant to plant, loaded with entangled dew-drops, which
glisten and sparkle in the sunshine. Various opinious
were formerly entertained concerning the nature and
origin of gossammer, but it is now sufficiently accertained were formerly entertained concerning the nature and origin of gossamer, but it is now sufficiently ascertained to be produced by small spiders of various species. Why G. appear at a particular season of the year, and why G. threads or webs are produced, are questions yet open to discussion. It is however well ascertained that the spider which produces the G. is frequently wasted up with it into the air, and some eminent authority believe that it has the power of guiding itself and vehicle in the atmosphere, — but if for the mere enjoyment of a seiral excursion, or in order to find insect-prey in the air, it is not said.

—1. waterproof outer-garment of light material.

Gossamery, a. Resembling gossamer; filmy; forculent; unsubstantial; as "gossamer faction."

Gossam, (goiran,) n. (Gool.) An ochroous miseral substance; an imperfect iron ore.

Gossamiferrous, a. [Ling. gossam, and Lat. fore, to

substance; an imperfect fron ore.

Gossamif erouss, a. [Eng. gossam, and Lat. fore, to bear.] Containing gossam; producing or having reference to gossam.

Gossish, n. [Godsibb—God, and A. S. nib, peace, co-cord, adoption, relation, companionship; O. Ger. niba, a covenant.] An idle tattler, or talebearer; one who goes from house to house, retailing scandal or letting news; a busybody.

" The or

"The common chai of possips when they meet."—Drysfes.—Mere tattle; idle talk; scandal; groundless ramot.

-v. n. To chat; to prate; to talk much and idly; s.
"gosripring conversation."—Lase.
-To tell idle tales: to run about tattling and talebearing.
Geo'sipry, n. Special intimacy or neighborly association; spiritual affinity.—Idle tattle; gossip; rumot.
"Many a flower of London geostyry."—E. B. Browning.
Geo'sipy, a. Full of tattle, chat, or gossip; as, a program of the common.

spy woman.
Gossoon', n. [Fr. garpon; Sp. garson; It. garson;
L. Lat. garcia.] A term used by the Irish to designals
a boy, youth, or serving-man. Oh! but he wor the purty gee

"Oh! but he wor the party sessoon."—Crosten Crebs.
Grossy p'tumn, n. [Lat. gossprism.] (Bot.) A genus of plants, order Malascas, which yields the cotton-plant, one of the most important of all plants to man. The cotton-plants are tall shrubs, with lobed leares, larr mailow-like yellow flowers, and somewhat egg-hapd angular pods, the seeds of which are enveloped in covering of cellular filaments which form the cotton of commerce. See COTTON.
Get, imp. of Ger, q. v.
Get, Get'tem, pp. of Ger, q. v.
Get, chet'tem, pp. of Ger, q. v.
Get, n. [L. Lat. gota, a canal; A. S. gettem, to powl.]
A channel, sewer, or passage for water. (Used is assistant of England.)

















GOTHIC ARCHITECTURE.

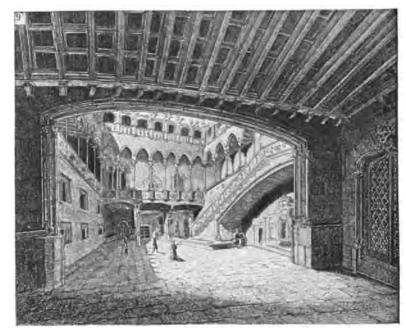
1. Doge's Palace, Venice. 2. Canterbury Cathedral, England. 3. Choir of Cathedral, st Prague. 9. Court at Barcelona, Spain. 10. Interior, Cathedral of Litchfield, Eagland. 1

















risbon, 4. 6. Capitals from ancient palace, Trent. 5. Fountain, Venice. 7. Keystone, Church at Gladbach. 8. Water-jet, Cathedral of hapel of heary VII., Westminster Abbey, London. 12. Nesle Tower, Paris. 13. Capital, Bernardo Palace, Venice. 14, 15. Fountains Venice.

Checks, s. [Ger. Gothes, the Goths; O. Ger. Guti, Gudi; Goth. Guthans; A. S. Geatas; Lat. Gothi, Gotones, probably identical with the Getoe, placed by Herodotus south of the Danube and near its mouths.] (Geog.) One of the ancient and distinguished tribe or nation

One of the antener called Gorns, q. v.

-A rude or uncivilized person; a barbarian; one who is ganche, ignorant, or ill-mannered; as, he is a perfect

is ganche, ignorant, or ili-mannered; as, he is a perfect Goth.

Goth.

Gotha, capital of the duchy of Saxe-Coburg-Gotha, on the Leine, 44 m. N.W. of Coburg, and 516 N.E. of Paris. The town is beautifully situated on the declivity of a gentle hill, the palace of the reigning dukes being placed like a citadel on the apex. Gotha contains, besides its ancient palace of Friedenstein, a museum of rare and valuable curiosities, a library, and other institutions of a national and scientific character. Manuf. Muslina, cottons, porcelain, colored paper, cloth, linen, &c. G. samsages aux e a widespread celevity. Pop. (1885) 27,652.—The Almanach de Gotha, a small pocket-book of abt. 1,000 pages, is published here. It is a universal political register, and it may be said that no book ever printed contains so much political or statistical information in so small a compass and with so much accuracy. As a work of such an extent cannot be brought down to the end of the year, the date of publication is stated, and in some instances a date has been given to each page, as completed, to show that the editor is not answerable for subsequent changes. The publication of this almanac commenced in 1764, in the German language, in which it was continued until Napoleon I. became emperor, when it was changed to the French language, which being the recognised language of courts, is found the most convenient, and has been ever since retained.

Geth'amm. A colloquialism sometimes applied to New retained.

Tetained.

Statistics of the second s

England, noted for some pleasant blunders.

Geth amnite, s. An inhabitant of New York city.

W. Irving.

Gethard, St., (got'ard.) one of the most celebrated and romantic apots in Switzerland, being a high table-land nearly 11,000 feet above the sea at its greatest elevation, entirely surrounded, except by a narrow gorge on the N., by lofty mountains towering on all sides in Alpine grandeur, and shutting out the St. Gothard from the canton of Tessin on the N., Valais on the S., Urt on the W., and Grisons on the E. The celebrated, hospital or hospice of St. Gothard stands at the highest point of the Pass of St. Gothard, having an elevation of 6,976 feet, and forms a most welcome harbor of refuge and repose to the weary traveller who journeys by this the most frequented route across the Alps, which at its summit rises to the height of 6,800 feet. By means of this pass, the high-road from Fluelen, on Lake Lucerne, is carried without interruption in a S.S.E. direction to Lago Maggiore in the N. of Italy. The construction of the road was commenced in 1820, and opened in 1832. In 1834, nearly one-third of the road, with numerous bridges and terraces, was swept away by the violence of a most terrific storm which burst on the summit of the pass; and in 1839 a similar occurrence took place. Since that time, however, the road has been in a good state of repair. It is one of the best and most convenient of the Alpine carriage-ways, and is free from snow for four or five months of the year, beginning with June. In the neighborhood of the hespice rise the Reuss, Rhone, and the Rhine. Upon the N., where the impetuous Reuss bursts its way through the rocky gorge, its foaming torrent is spanned by the far-famed Devil's Bridge, a solitary arch of stone springing from rock to rock fathoms above the rushing river. It was along the heights that skirt the St. Gothard and the Devil's Bridge that the Russians and the French. at the end of the last century, had so many encounters. The St. G. tunnel was completed in 1882.

—————————————

-Rude; uncivilized; barbarous; ignorant; as, Gothic barbarism.

Geth'ie Architec'ture. The name given to the style of architecture that was adopted by European nations generally during the medieval ages. By some the term is confined to that form of architecture which is peculiarly characterized by the pointed arch, while others consider that the Romanesque architecture which is distinguished by the use of the rounded arch in every form, and from which the pointed style of architecture was gradually developed, should also be included under this appellation. Adopting the latter and more comprehensive view of the subject, we may, therefore, consider Gothic architecture to consist of two grand divisions — the Romanesque, or round-arched Gothic (subdivided in England into Early English, Decorated English, and Perpendicular English, corresponding to the French Ogival Primital, Ogival Seconsaric, and Ogival Tertiam, or Flamboyant). See Romanesque Architecture, and Medicard Architecture.

Goth'ieism, a. Rudeness of manners; barbarism.

—A Oothic idiom of speech. — Conformity to the Gothic style of architecture.

Goth'ieime, v. a. To make Gothic; to restore to a state of barbarism.

Goth'ie Languagea.

th'ie Lam'guage. See German Language and LITERATURE.

Göth'ite, n. [From the poet Göthe.] A hydrated ses-quioxide of iron. Occurs in prisms of a yellowish, red-dish, and blackish-brown. Often blood-red by trans-

GOTH

mitted light. Sp. gr. 40-44. Comp. Sesquioxide of iron St-P, water 101. Found with other oxides of Iron, especially hematite or limonite.

Geath lamed, a long narrow island in the Baltic, Lat. 56° 54′ to 5° 5° N., Lon. 18′ to 1° E, belonging to Sweden, and forming, with a number of rocky lates that surround it, a district named after the capital, Walty. Or home low hilly ranges on the cast, the land is level and fertile, yielding abundant pasturage for cattle, and a fair proportion of the usual crops. Pop. about 55,000. Geathland, an ancient prov. of Sweden, now divided into 12 lens or departments. It forms the southern peninsuls of the country, is bounded on the S. by the Sound, and extending as far N. as the parallel of 60 degrees laitude, is bounded on the S. by the Sound, and extending as far N. as the parallel of 60 degrees laitude, is bounded on the S. by the Sound, and extending as far N. as the parallel of 60 degrees laitude, is bounded on the S. by the Sound, and extending as far N. as the parallel of 60 degrees laitude, is bounded on the S. by the Sound, and extending as far N. as the parallel of 60 degrees laitude, is bounded on the S. by the Sounded into East and West Goldhand, by an oblique line bearing S. W. through Lake Wettern to Labolm Bay. The whole province is deeply intersected by numerous lakes, the same of an ancient people of Germany, who in early times inhabited the coast of modern Prussia, from the Vistulas as far as Branneberg or Heiligenbell. The origin of this people has not been ascertained with any degree of certainty. It is generally believed that they once inhabited Scandinavia, a belief that is both supported by tradition and by the names of places there. The opinion further is, that they came from the south at a period long anterior to historic records. They are mentioned by Pythesa of Marcallel and the Supported by tradition and by the names of places there. The opinion further is, that they came is the supported by the supported by Taketa, in the supported by the supported by

took possession of a large part of Spain, where Athaulf, the successor of Alaric, was assessinated. His successor, Wallia, assisted the Romans against the Vandals and Alani, in Spain, and was rewarded with a portion of western Gaul. The succeeding king of the Goths extook possession of a large part of Spain, where Athaulf, the successor of Alaric, was assistanted. His successor, Walla, assisted the Romans against the Vandals and Alani, in Spain, and was rewarded with a portion of western Gaul. The succeeding king of the Gotha extended their smpire both in France and Spain, and during the latter part of the 5th century it had reached the highest point of its prosperity, its capital being Toulouse. At that time it embraced the greater part of Spain, and a large portion of Gaul; but after that time the Goths in Gaul were compelled to retreat before like Franks, while in Spain their empire was overthrown, about two centuries later, by the Saraccus. After the fall of the Western Roman empire, by the invasion of Odoacer, in 476, the eastern emperor, Zeno, persuaded Theodoric, king of the Ostrogotha, to invade Italy in 459. He was successor, and greatly strengthened his power and extended his kingdom; but after his death, disputes arose as to his successor, and the country became embroiled in civil dissensions. Justinian, the Eastern emperor, in order to profit by these disorders, dispatched Bellearius to Italy in 526, who took possession of Rome, and, gaining the admiration of the Gotha, was invited to become their king. This, however, he refused, but held the people in subjection to his master. Totila, a noble Goth, rebelled, and made himself master of southern Italy. He was about to destroy Rome, but listened to the remonstrances of Belliarius, that it would add more to his honor to spare it, and contented himself with dispersing the inhabitants, and repoopling it before the arrival of a fresh army from Constantinople under Narses. Totila fell in battle, and his successor, and the Gotha End of the Heavist of the Heavis of the Army of the Gotha-Rigard of the monerating and to guard the statues. He was also distinguished in some degree as a patron of the fine arts, science, and inhere is said to have never been in Italy a better administration than that of Theodoric. The Visigoth

used for boring wood.

Glough, Hugh Viscount, (gof.) an English military commander, B. 1779. He entered the British army at the age of 16, and as colonel of the 87th rept. he greatly distinguished himself in the Peninsular War. G. subsequently commanded in China during the war of 1841-2, and led the land-attack on Canton, for which he received the Grand Cross of the Bath. Proceeding to India, Sir Hugh defeated the Mahrattas and Sikhs in the severe battles of Maharajpore, Moodkee, Ferozeshah, and Sabraon, for which he was created a peer. During the last desperate struggle between the British and the Sikhs, in 1848-9, Lord G. again took command, and succeeded in thoroughly subjugating the Punjah. In 1850 he was created Viscount Gough, and received the baton of field-marshal in 1860. D. 1869.

Gough, JOHN B., a celebrated American temperance advocate, was B. in England in 1817. In 1829, he emigrated to the U. States, and followed the avocation of a book-binder in New York, where he became notorious for his drunken habits. In 1842, however, he took the pledge, and from that time became a changed man. He not only practised total abstinence, but began to advocate the principle from the platform. His powers as a

speaker were soon developed, and his reputation as an orator spread through the U. States and Canada, in which he travelled and lectured. In Massachusetts, the speaker were soon developed, and his reputation as an orator spread through the U. States and Canada, in which he travelled and lectured. In Massachusetts, the influence of his oratory was so powerful, that his presence and advocacy were eagerly sought; and in the two years succeeding his reformation, he travelled more than 12,000 miles, delivered 605 lectures, and obtained 31,760 aignatures to the pledge! In 1853, he proceeded to England, where his labors met with an equal success. Heremained in that country two years, during which time he delivered 440 lectures, and travelled 17,500 miles. As he passed through the country, his fame as an orator increased, and thousands of reclaimed drunkards and happy homes are said to give evidence of the practical value of his labors. Returning to the U. States, he again addressed crowded audiences in many parts of this country until 1857, when he a second time visited Great Britain, where he met with additional converts an increased popularity. He returned to the U. S. in 1860. G. published his Audobiography and some orations in 1845, and Gleoming from my Life Work in 1881. D., 1886. G. published his Audobiography and some orations in 1845, and Gleoming for my Life Work in 1881. D., 1886, in Philadelphia. Goajon, Jean. (goor show.) a French sculptur and architect of the 16th century, who, being a Protestant, fell in the massacre of St. Bartholomew, 1572. He designed the fine façade of the old Louvre, and other works, which procurred him the title of the French Philips.
Goalle Kas (Gourcha, or Sevan), Lake off, in Russian Armenia 25 m. from Eriyan I. it also m. in length

Gouke'ka (Goukeha, or Savan), Lake of, in Russian Armenia, 25 m. from Erivan. It is 48 m. in length, with a breadth varying from 5 to 20 m., and lies 5,300 et above the sea

feet above the sea.

Goulard's Extract, n. (Chem.) A tribasic acetate of lead prepared by dissolving litharge in a solution of acetate of lead. It is obtained in ne edle-like crystals.

Goulard Water, n. (Med.) Solution of Goulard's Extract in water; used as an eye-lotion.

Gould, John, F.R.S., an eminent English naturalist, born 1804. He is author of The Birds of Australia, (a magnificent work in 7 vols., fol., containing descriptions of 600 species;) Mammals of Australia; A Century of Birds from the Himologus and The Birds of Great Britain, &c. Died in 1881.

Gould's borough, in Maine, a post-town of Hancock

&c. Died in 1881.

Goulds borough, in Maine, a post-town of Hancock co, 110 m. E. of Augusta. Pop. (1890) 1,709.

Goulds borough, in Pennsylcania, a post-office of Wayne co, on D., L. & W. R.R.

Gouned (200-n0), Charles François, a popular musical composer, and, after Auber, regarded as the head of the French lyric school, was born at Paris, 1818. He first became known by his pastoral of Beaucie and Philemon. Other musical works followed, which attained no very distinctive success. till his oners of Faust appeared, and the French lyric school, was born at Paris, 1818. He first became known by his pastoral of Beausic and Philemon. Other musical works followed, which attained no very distinctive success, till his opers of Faust appeared, and took all the lovers of operatic music by surprise. What rendered its success more remarkable was the fact that, although Geethe's masterpiece had been previously set to music a score of times, not one of these efforts was considered worthy of the theme. G. was also the composer of a comic opera founded on Molières' "Medecin maigré lui," produced in London under the title of The Moch Doctor; of La Reisse de Saba; Mirelle, 1864; Romeo and Juliet, produced at Paris and London in 1807, and Polyecte, produced at Paris in 1878. In 1881 his great sacred trilogy, The Redemption, was produced, and in 1885 his last important work, More et Via. Died in 1893.

Gours, (goo'ra,) n. (Mus.) The characteristic musical instrument of the black tribes of S. Africa, shaped like the bow of a Hottentot, (see Fig. 306.) and the string, made of intestines, is retained at one end by a knot in the barrel of a quill flattened and cleft. The quill, when opened, forms a long isosceles triangle, at the base of which is the hole which keeps the string fast; the other, when drawn back, being fastened to the end of the low by a thin leathern thong. The tension may be increased or diminished at the pleasure of the performer, who holds his instrument, while playing, in the manner of a huntsman's horn, the quill being applied to his mouth, and by alternate expiration and inspiration, many players are able to draw from the G. melodious notes.

Gourd, (gibrd.), m. [Fr. courge, and gourde; Beig. Rauwoorde; It. cucuzza; Lat. cucurbita, probably, according to Varro, from curous, crooked, bent.] (Bot.) The common name for a large cucurbitaceous fruit. (See Papo.) The plant named Cucurbita Pepo yields the white G. C. maxima, the red G., or pumpkin; Lagenaria vulgaria, the bottle-G., often used as a receptacle for fluid; Luffa faztida

or colocynth.

ber or colocynth.

—A false die. — Shaks.

Gourde, n. [8p. gordo.] A name given to the colonial dollar in Cuba, Hayti, St. Domingo, &c., and in Louisiana to the American dollar.

Gourdinens, n. [See Gourdy.] (Far.) A swelling on a horse's leg after a journey.

Gourdy, a. [Fr. goard, benumbed.] (Far.) Swelled in the legs, as a horse.

Gourmand, goormand, n. The French spelling of Gormand, q. v.

GOUPMAND, q.

GOUPMAN

joint of the great toe. It returns at longer or shorter intervals, when it may attack various other parts; but generally the great toe is the chief seat of the disease. Sometimes the attack comes on without any previous warning; but usually, for some days or weeks before, the patient has been suffering from indigestion, with diminished appetite, flatulence, contiveness, and a general feeling of lassitude and depression of spirits. He goes to bed, perhaps, in tolerable health, and after a few hours is awakened by the severity of the pain in the great tee, or sometimes the ankle, heel, or calf of the leg. The pain resembles that of a dislocated bone, and is attended with the sensation as if cold water was poured over the part; and this is succeeded by chilliness, shivering, and other febrile symptoms. These gradually abate as the pain increases, and it continues usually to the following night, with sometimes, however, a period of intermission during the day. The pain is of a burning or gnawing character. The next night, after some time of tossing and restlessness, the patient after some time of tossing and restlessness, the patient after some time of tossing and restlessness, the patient succeeds in falling asleep; a gentle perspiration breaks out, and he awakes to find himself refreshed, and the part comparatively free from pain. On examining the limb next morning, it is found to be considerably swollen, the toe red and shining, and the veins of the footomuch distended. There are usually a number of subsecuent attacks, becoming less and less severe, before joint of the great toe. It returns at longer or shorter out, and he awakes to find himself refreshed, and the junt comparatively free from pain. On examining the limb next morning, it is found to be considerably swollen, the toe red and shining, and the veins of the foot much distended. There are usually a number of subsequent attacks, becoming less and less severe, before what is known as "a ft of the gout" is over; so that it commonly extends over a period of several weeks, or even months. When the fit is over, the system is relieved, and the person feels, both in mind and body, much better than before the attack. At first, at for gout occurs only once perhaps in two or three years; but it becomes by degrees more and more frequent, more severe, and of longer duration every succeeding fit. In its progress, various parts of the body become affected, and translations take place from one joint or limb to another; and after frequent attacks, the joints lose their strength and faxibility, and become so stiff as to be deprived of all motion. Concretions of a chalky appearance are likewise formed about the joints; and affections of the kidneys arises from a deposit of the same kind of matter in them. This matter is a compound of uric acid and sods. The fits are more apt to occur in spring or autumn than at other seasons of the year; probably owing to the variableness of the weather at these times. As the fits become more frequent and severe, so the constitutional derangements become more arked and constant. The appetite falls, indigestion is more constant, there is a tendency to contiveness, the mind becomes restless and irritable, calcarcous deposits are formed in the arteries, calculi form in the bladder, and frequently the heart becomes diseased. Such are the general features of what is termed the regular gout; but there are certain other kinds which differ widely from it in their general character. In atomic gout, the disease, instead of manifesting itselfin the joints, attacks some of the internal organs, as the stomach, when the patient suffers from indigestion, nau A clot, or congulated mass.

GOVA

"I see on the blade of the dudgeon gouts of blood."—Shaks.
Goût, (gōō.) n. [Fr., from Lat. gustus; Sansk. gas, to eat, whence Gr. geuō, to taste.] Taste; relish; gusto; nice appreciation or fancy; as, "chacun a son godt"

(every one to his taste).

Gout'ily, adv. In a gouty manner.

Gout'iness, n. State of being subject to the gout;

gouty affections.

Gout'y, a. Diseased with gout; subject to the gout;
as, a gouty person.

"Knots upon his gouty joints appear."—Dryden.

"Enote upon his gonty joints appear." — Dryden.
—Pertaining to the gout; relating to the gout.
Gou'ty Concre'tions, n. pl. (Path.) Concretions in the joints of gouty persons, called sometimes, from their appearance, chalk-stones. They are mostly composed of urate of soda.
Gouy'erneur, in New York, an important town of St. Lawrence co., 34 m. 8. of Ogdensburg, on the R., W. & O. R.R. Iron ore, marble and talc are mined in the vicinity, and there are manuf. of iron, lumber, machinery, &c. Pop. (1897) about 3,800.
Gouy'ion-St.-Cyr, Laurent, a general and marshal of France, distinguished in the campaign on the Rhine, 1795; and under Moreau and Joubert, in the campaign of Italy. After the fall of Napoleon he was made a peer of France, and served as minister of war. The latter years of his life were occupied in the composition of his several memoirs. Died 1830.

Govern, (guv'urn.) v. a. [Fr. gouverner; Sp. gobernér; Lat. guberno; Gr. kuberno — kúbe, the head, and nom, a ship.] To rule; to direct and control; to regulate by authority; to keep within the limits prescribed; to sway; as, to govern a country.

Slaves to our passions we be It grows impossible to gener

To regulate; to influence; to direct; to control; to re-strain; to command, as the feelings; as, to govern one's passions.

"Go after her, she 's desperate; govern her." (Gram.) To affect so as to determine the case, mood, &c.; as, the verb "amo" governs the accusative case.

&c.; as, the verb "amo" governs the accusative case.

"Words that govern go before." — Mauger.

—e. n. To exercise authority; to administer the laws; to maintain the superiority; to have the control.

"By that rule... you still may govern." — Dryden.

Gov'ernable, a. [Fr. governable.] That may be governed or subjected to authority; controllable; obedient; submissive to law or rule.

Gov'ernableness, m. Quality of being governable.

Gov'ernableness, m. Quality of being governable.

Gov'ernableness, m. Quality of being governable.

Gov'ernableness, m. Saneiro. Area, abt. 56 ap. m.

Gov'ernamte, n. [Fr. governante. See Govers.] A female who has the charge of young women; a governess; a preceptress; a duenna. erness; a preceptress; a duenna

Gov'erness, s. An instructress; a female teacher; a preceptress; an educated woman who has the care of instructing and directing young ladies; as, a daily

preception, and directing young ladies; an, a unity governess.

Gov'erning, p. a. Holding the power or superiority; directing; controlling; prevalent; as, a governing political party, a governing influence.

Gov'ernmement, s. [Fr. gouvernement.] (Pol.) A word employed to denote either the particular forms under which a State is governed, the collective body of its law, or the person or persons in whom the supreme power is vested. There are three distinct forms of G<sub>1</sub> — a monarchy, in which the supreme power is in the hands of one person; an aristocracy, in which it is vested in a privileged minority; and a democracy, in which it is exercised either directly or indirectly by the great body of the people. Monarchy, in its abuse, become desposism; aristocracy tends to oligarchy; and democracy to eckleracy, or mob government. The mixed form of G is that which combines all, or at least two, of these forms, attempt to combine the good qualities of each, arisocracy is not congarray; and democracy to collecture, or mote government. The mixed form of G. that which combines all, or at least two, of these forms, and is an attempt to combine the good qualities of each, and to guard against their evil tendencies.

"For forms of government ist fools content, Whate'er is bost administered in best."—Pops.

Every G. comprises within itself three distinct powers—the legislative, judicial, and executive. In its legislative capacity, it lays down the laws by which its subjects are to be governed: its judicial power is exercised in deciding, by means of various cours and judges, all questions connected with these laws; and its executive power, its carrying out or putting into execution its legislative enactments and judicial decisions.—See Aristocact, Demogracy, Monarchy, Federal Government, &c. (Goog.) A subdivision of territory over which the right of sovereignty is extended; as, the government of the Caucasus. Every G. comprises within itself three distinct po-

the Caucasus.

(Gram.) The influence of a word in regard to construction

struction.
lovernment'al, a. [Fr. gowernemental.] Pertaining to government; made by government; manctioned

ing to government; made by government; maintaneously government.

Government.

Government, [Fr. gouverneur; Lat. gubernator.]

One who governs, rules, or directs; one invested with supreme authority; a ruler; a chief magistrate; as, the governor of Virginia.—A guardian; a tutor; a preceptor; one who has the care of a young man's education. tion. &c.

"The great work of a governor is to fashion the carriage, and form the mind." — Locks. One to whom temporary authority is delegated.

"To you, lord powerner, Remains the censure of this hellish villain," - Shale,

Remains the censure of this hellish villain."—Shaks.

(Naut.) A pilot; a steersman. (a.)

(Naut.) A pilot; a steersman. (a.)

(Engineering.) A contrivance by which the motion of the fly-wheel shaft regulates the velocity of the engine, by causing two balls to revolve in such a manner that they open, or close, the passage of the steam from the boiler, by means of a butterfly-valve, in proportion to the increase of velocity. Two heavy balls, B B, attached to he extremities of two rods, B F, B F, play upon a joint at E, passing through a mortise in the vertical shaft D D. These are united, by joints at F, to the short rods F H, which again are connected by joints at H to a ring which slides on the shaft D D. A horizontal wheel, w, is attached to D D, having a groove to receive a rope of strap on its rim, by means of which the motion is communicated to D D from a corresponding wheel on some shaft of the machinery to

shaft of the machinery to be regulated. It is evident, from the disposition of the rods, that if the balls BB are by any means raised or drawn asunder, the extremities FF of the rods turning on the pivot E will also be separated, and their distance from the axis in-

- ENGINE COVERSOR

8 3

tance from the axis in-creased. This will draw the rods F H in the same dicreased. This will draw the rods F H in the same di-rection, and cause the ring or collar H to descend. This ring is connected with the end, I, of a lever, whose fair crum is at G, and whose other extremity, K, is connected by some means with the part of the machine which supplies the power. Suppose now the velocity from any cause to undergo a sudden increase; by reason of the increased centrifugal force arising from the whirling motion, the balls B B will recode from the shaft D D, and raise the extremity K of the lever. On the other hand, if the velocity is diminished, the centrifugal force of the balls will be diminished, they will fall by their own weight nearer the axis, and cause the end K of the lever to descend. When the governor is applied to a steam-engine, the rod K I communicates with a flat circular valve, V, placed in the principal steam-pipe, and so arranged that when K is elevated as far as the divergence of the balls will allow, the opening of the pipe gence of the balls will allow, the opening of the pipe will be closed by the valve V, and the passage of steam entirely stopped. On the other hand, when the balls will be closed by the valve v, and the passage of steam entirely stopped. On the other hand, when the balls subside to their lowest position, the valve will be en-tirely open. Thus, when the velocity is increased, the supply of steam is checked; and when it is diminished, the supply of steam is immediately increased; by which means a walform proper velocity of the machinery is maintained.

Gevermorship, n. The rank or office of a governor. Gevermor's Island, in *Massachusetts*, a small island at the main entrance of Boston Harbor. Fort Winthrop

is built upon it. Governor's Island, in New York, an island in New York harbor. Fort Columbus, the headquarters of the Department of the East, U. S. A., is built upon it. • wam, s. [Scot., daisy.] (Bot.) The Scottish term for the decay.

Ge'wam, n. [Scot., dalsy.] (Bot.) The Scottish term for the dalsy.

(Min.) Decomposed granite; but the term is sometimes applied to the solid rock.

Gewan'da, in New York, a post-village of Cattaraugus co., about 250 m. W. of Albany.

Gewan'mus, in New York, a village of Kings co., about 1 m. 8. of Brooklyn.

Gewenswille, in S. Carolina, a post-village of Greenvilla district

ville district. The district.

Gewr., (goor.) a peninsula of 8. Wales, projecting into the British Channel in the extreme W. of Giamorganshire. G. is 15 m. long, with an average

Glamorganshire. G. is 15 m. long, with an average width of 5 m.
Gew'er's Ferry, in Iowa, a village of Cedar co.
Gew'er's Ferry, in Iowa, a village of Cedar co.
Gew'er's Ferry, in Iowa, a village of Cedar co.
Gew'er, s. See Gaws.
Gew'er, s. Trona, gonalis at dress; a robe; as a silk gown. — A long, loose wrapper or upper garment worn by men indoors; as, a dressing-gown. — A long, loose robe, worn by professional men, as divines, larristers, students, &c.; the academic togs;—hence, the dress of peace, or of the civil magistracy, in distinction from the military.
"Be Mare deposed, and arms to gowne made yield." — Drydes.
—Any sort of dress, garb, or habit; as, the "gown of hu-

-Any sort of dress, garb, or habit; as, the "goson of humility." — Shaks.
Gowned, a. Dressed in a gown; attired; clad.

"Sap and sober peers, all gravely gound." — Sponser.

Glown'man, Glownsman, n. One whose professional habit is the gown, as a divine or advocate, and particularly a member of an English university; — hence, a civilian, as opposed to the military; as, "lany gownmen."

Gown'-piece, s. A piece of cloth, or other fabric, sufficient to make a gown.

Gown', plece, a. A piece of cloth, or other textile fabric, sufficient to make a gown.
Gowt, a. See Go-our.
Gowt, a. See Go-our.
Gowt, a. See Go-our.
Goyna, a town of the Argentine Republic, prov. of Corrientes, on the Parana River; pop. 1,500.
Goyna'ma, a city of Brazil, prov. of Pernambuco, on the Goynana River, alt. 35 m. N. W. of Olinda; pop. 6,000.
Goyna'e, a town of Guadeloupe, W. Indies, on Goyave Bay, at the mouth of Peti-Goyave River.
Goyna's, a central prov. of Brazil, bounded by Para on the W., Pernambuco and Minas-Geraes on the R., San Paulo on the S., and Matto Grosso on the W.; area, 27,1700 sq. m. The surface, generally mountainous, is watered by the Araguny, Tocantins, Vermelho, and Rio Grande; the soil is fertile. Prod. Barks, medicinal plants, coloring woods, sugar, bananas, cotton, and to-baco. Phy. 27,1702.
Goyna, formerly Villa Boa, cap. of the above prov., is situated on the Vermelho, 665 m. N. W. of Rio de Janeiro, Lat. 16° 20' S., Lon. 50° 40' W. Manuf. Cotton, tobacco, diamonds, crystals. Pop. 9,100.
Gozna'. [Heb., fiecce, pasture.] (Anc. Geog.) A prov. of Media, to which Tiglath Pileser, and afterwards Shalmaneer, sent the captive Israelites (2 Kin. xvii. 6.)—The country was named after the river Gozan, now called the Kizsie Ozan, or Golden River, which rises in N.W. Persia and flows N.R. very tortuously into the Capian Sea.

N.W. Persia and flows N.E. very tortuously into the Capian Sea.

16\*20, a small, rocky, but fertile island in the Mediterranean, a little to the N.W. of Malta. Ext. 9 m. long, with a breadth of 5. Desc. Rocky, but fertile. Pup. 16.500.—There is in this island a Cyclopean giants tower which is an object of great interest. On the S.E. coast is Fort Chambray.

Goz'zard, n. [A corrupted form of gooscherd.] One who looks after and has charge of geese. (Yulgar.)

G.P.O. An abbreviation of General Part-Office.

Grandf-Reimet, a town of S. Africa, and one of the most important and prosperous of Cape Colony, is situated on the Sunday, which enters Algoa Bay near Port Elizabeth.

Elizabeth.

Granf'schap, in Michigan, a post-office of Allegan co.

Grab, n. [Hind. ghurdb, an Arab coasting-vessel.]

(Naul.) The name given in Hindostan to a threemasted vessel peculiar to the Malabar coast.

A clutch: a sudden grasp, seture, or snatch: as, the
thief made a grab at his watch.

Grab, v. a. [Swed. grappa, to grasp. See Grabble,

GRAPPLE, and GRIPE.] To snatch; to clutch; to catch hold of suddenly; to seize; to grasp.

Grab'ber, n. One who snatches, clutches, grasps, or

hold of suddenly; to seize; to grasp.

Grab'bee, n. One who snatches, clutches, grasps, or seizes.

Grab'ble, v. n. [Dim. of grab; Ger. grabbein.] To grope; to feel about with the hands; as, "grabbing and numbling."— Selden.

To lie prestrate or recumbent on the ground; to sprawl on one's belly; to grovel.

Grabow, (gra'bo,) the name of several towns in Germany, the largest 24 m. from Schwerin, on the railroad between Berlin and Hamburg. Pop. 6,746.

Gracehus, Tierrius Szarzonius, a celebrated Roman tribune and reformer, a about s. c. 166. He was the eldest son of the consul of the same name, and of Cornelia, daughter of Sciplo Africanus; and losing his father at an early age, was brought up by his noble mother, with the aid of Greek tutors. He married the daughter of Appine Claudius, chief of the Senate, and soon after distinguished himself under Sciplo at the siege of Carthage. At the age of about 30 he served as questor in Spain; but deeply moved by the frightful evils which he saw in the state of Italy and its population, he resolved to devote himself to the task of reform, and especially to the formation of a middle class of small landed proprietors. Heentered the office of tribune s. c. 133, and soon proposed a measure reviving with some modifications a long disregarded Licinian law, for the more equal distribution of the public lands. This measure, eagerly welcomed by the country-tribes, roused bitter opposition on the part of the rich holders of these lands, and at their instance Octavius, one of the tribunes, interposed his veto and prevented its passing into law. This course was repeated on a second attempt of these lands, and at their instance Octavius, one of the tribunes, interposed his veto and prevented its passing into law. This course was repeated on a second attempt of G: but at a third assembly Octavius was deposed and the bill passed. Soon after, G. made a proposal for distributing the property of Attalus, king of Pergamus, recently bequeathed to the Romans, among the poor. He also brought forward several measures of reform, which were subsequently carried by his brother Caius. On his offering himself a candidate for the tribuneship the next war, a riot arose, the senators making an attack

On his offering himself a candidate for the tribuneship the next year, a riot arcse, the senators making an attack upon the people, and the reformer was killed with many of his adherents. His body with theirs was thrown into the Tiber, leave being refused to Caius to bury it. MARCHUS, CAIUS SEMPRONIUS, younger brother of the preceding, and like him tribune and reformer, a about B. C. 157. He served under Sciplo at Numantia, and in his absence was named one of the commissioners for carrying out the distribution of public lands. After his brother's death he lived in retirement till B. C. 128, when he was sent as quæstor to Sardinia. Two years later, disregarding an order of the Senate, who would fain have him absent, he returned to Rome and was chosen triregarding an order of the Senate, who would nan have him absent, he returned to Rome and was chosen tri-bune. He was by careful study and training an accom-plished orator, and he applied all his powers to avenge the death of Tiberius, and to carry out his measures. He renewed and extended the Agrarian law; planted He renewed and extended the Agrarian law; planted new colonies in Italy and the provinces; provided for the sale of corn at a low price; deprived the Senate of the judicial power; and had new roads made and old ones restored in all parts of Italy. These measures are called the Sempronian laws. Caius was re-elected tribune for 122, and at once proposed a wide extension of the Roman franchise. To diminish his popularity, the Senate employed Livius Drusus to outbid him for popular favor. At the same time Calus was sent, with his chief supporter Flaccus, to Carthage, to establish the new colony there. He was not again chosen tribune, and a meeting of the Senate was called to revoke one of his laws. The irritation was immense, the friends of Gracchus were armed, blood was shed, the great reformer was declared a public enemy, and in the combat which took place next day three thousand are said to have took place next day three thousand are said to have fallen, and Gracchus had his slave put him to death. Cornelia survived her sons many years, living in retire-ment at Misenum.

ment at misenum. irace, n. [Fr. grace; Lat. gratia—gratus, beloved, dear, agreeable; allied to carus, dear, and Gr. charis, grace, favor.] Good-will; kindness; disposition to oblige another; beneficence; generosity; favor bestowed or privilege conferred.

"Is this the reward and thanks I am to have for those many acts of grace I have lately passed." — King Charles I.

The free, unmerited love and favor of God; divine influence graciously bestowed; the application of Christ's teousness.

\*heology.) In its most general signification, G. is us

to denote the love and favor of God towards mankind. more particularly in his sending his son Christ Jesus to die for sinners. It implies that the gift springs from the bounty and liberality of the giver, without any claim or merit on the part of the recipient. It is also employed to designate the influence of the Divine Spirit upon the mind, by which an individual is brought to receive the truths of Christianity; and hence, when an individual has been brought into that condition, he is said to be in has been brought into that condition, he is said to be in a state of grace. It is also used to signify the gospel dispensation, as distinguished from the legal; as when the apostle l'aul speaks of our being "no longer under the law, but under grace." Some theologians assert that there are two kinds of grace,—common and special. Common grace they regard as being extended unto all men; special grace, as that which is extended only to the elect, and by means of which they are brought unto Christ. Some speak of grace as being irresistible, efficacious, electing, justifying, sanctifying. &c. The nature of grace has been one of the most fruitful sources of controversy in the Church, giving rise to much bitterness of feeling, and introducing many hair-splitting distinctions that we are not qualified to examine. (Fine Arts.) A quality arising from elegance of form and attitude combined. A figure may be just in its proportions, its parts and members may be all perfectly regulated, yet it may be deficient in grace. A woman can be beautiful but one way, yet she can be graceful a thousand. It is scarcely possible in words to express this quality, yet it is constantly seen in nature; and it is scarcely possible to contemplate a picture by Raffaelle without feeling its power.

(Mus.) Something added for ornament, as an appogiators, a shake, a trill. &c.

giaturs, a shake, a trill, &c.

In England, the title used in addressing a duke or an archbishop, and formerly the king.

"Hew fares it with your grace?"—Shake.

(Muth.) See Graces

-A short prayer before or after meat; a benediction asked or thanks returned.

An act, edict, vote, or decree of the senate or governing body. (Used at the English universities.)

pl. (Sports.) A play in which a small hoop is thrown from one person to another by means of two sticks in the hands of each.

om one person to another by means of two sticks in he hands of each.

Days of grace. (Law.) See DAY.

Good graces. Favor; esteem; predilection; friendship.

"Demand dailv'ry of her bears,

Her goods and chattels, and good graces."—Hudibras.

To say grace. To ask a blessing, or render thanks before or after meat.

"And what's more rare, a post shall say grace."—Po

Means of grace. Means of promoting religious feeling, or of securing the almighty favor.
-e. a. To honor; to dignify and elevate by an act of favor.

"Grace with a nod, and ruin with a frown."-Dryden To adorn; to decorate; to embellish; to dignify.

To accorn; to decorate; to emberman; to diguity.

"Great Jove and Probus graced his nobler line."—Pops.

-To furnish and fortify with heavenly grace.

Grace'-cup, n. The cup or health drunk after grace is said at table.

Grace'ful, a. Beautiful with dignity; full of grace;

elegant; easy in gait or manner; agreeable in appearance, with an expression of dignity or elevation of mind or manner; as, a graceful woman, a graceful act, a graceful deportment, a graceful air, a graceful speaker, &c.

"Bold in the lists, and graceful in the dance."—Pope.

"Bold in the lists, and graceful in the dance."—Pope.

Gracefully, adv. In a graceful manner; with a natural case and propriety; with pleasing dignity; elegantly; as, she walties gracefully.

Gracefullness, a. Quality of being graceful; elegance of manner, gait, or deportment; beauty, with dignity in manner, motion, or countenance.

Gracefless, a. Unregenerate; unsanctified; wanting in divine grace:—hence corrunt deprayed predicate.

Grace-less, a. Unregenerate; unsanctified; wanting in divine grace;—hence, corrupt, depraved, profigate, abandone; as, a graceless youth, a graceless age.

Grace-lessiy, adv. Without grace; in a graceless

manner.

Grace less; profligacy; depravity; degeneracy.

Grace lasms, in Maryland, a post-village of Frederick co., abt. 75 m. N.W. of Annapolis.

Graces. [Gr. Charites; Lat. Gratie.] (Myth.) In Roman mythology, the three daughters of Venus, by Jupiter or Bacchus, who were named Aglaia, Thalia, and Euphrosyne. They were the constant attendants of their beautiful mother, and were represented as three young and syne. They were he constant attendants of their beau-tiful mother, and were represented as three young and lovely virgins, with their hands joined. They presided over kindness and all good offices, and their worship was the same as that of the nine Muses, with whom was the same as that of the nine Muses, with whom they had a temple in common. They were generally represented in a nude state, to show that kindness ought to be performed with sincerity and candor. The moderns explain the allegory of their having their hands joined to mean that there should be a perpetual return of kind and good deeds among friends.—With the Greeks, the daughters of Zeus and Eurynome, were the embodiments of gracefulness and beauty. In the Vedic mythology, the Harits, with whose name that of the Charites has been identified, are the horses of the sun, glittering with dazzling light. But it would probably be a mistake to suppose that the Greeks borrowed from Vedic writings an idea which comes to both Greeks and Hindoos from an earlier and common source. The word is traced to the root ghar or har, to be fat or glittering,— the transition from the idea of fatness to that of brilliance and beauty being shown in a large class of woru is traced to the tring, — the transition from the idea of fatness to that of brilliance and beauty being shown in a large class of words both in Greek and other languages.

Grace/ville, in Georgia, a village of Houston co., abt. 68 m. S.W. of Milledgeville.

68 m. S.W. of Milledgeville.

Gracias-a-Dios, (gra's-as-a-de'oce,) a town of Central America, State of Honduras, abt. 40 m. W.N.W. of Comayagua: pop. abt. 1,000.

Gra'cias-a-Di'os, a promontory on the E. coast of Patagonia, near the mouth of the Gallagos River.

Gra'cias-a-Di'os, a cape on the Mosquito Coast of Central America; Lat. 14° 59' N., Lon. 83° 12' W.

Gracila'ria, n. (Bot.) A species of plants, order Cramiacze. The G. lichroides is the commercial Ceylon moss. It is nutritive, emollient, and demulcent, and miaces. The G. lichenoides is the commercial Ceylon moss. It is nutritive, emollient, and demulcent, and may be employed in the form of a decoction or jelly as a food for children and invalids, and medicinally in pulmonary complaints, diarrhea, &c. It is sometimes imported under the name of agar-agar; but G. spinosa has also been imported under the same name. Both species also been imported under the same name. Both species are largely used in the East for making nutritious jellies, for stiffening purposes, and for varnishing. G. helmintheorion is a Corsican moss. It has been used principally as a vermifuge, but its properties have been much overrated. G. crassa, or Ki-tsal, is cooked with a soy or vinegar in China, and is also used by the Chinese ladies for giving a gloss to their hair.

Gractl'ity,n.[lat.gractlitas.] Slenderness; tenuity.(1)

"So hallowed and so gracious is the time."—Shake.
Acceptable; excellent; attracting or winning favor or

"The landlady and Tam grew gracious,
Wi' favours secret, sweet, and precious."—B

Beautiful; graceful; becoming; aa a gracious presence.

Graciously, adv. Kindly; favorably; in a friendly or pleasing manner; with kind condescension.

Grack'le, Grak'le, n. [Lat. graculus, a jack-daw.]

(Zod.) See QUISCALUS.

Grack'le, Grank se, n. [ ] [Fr.; Lat. gradatio — gradatiom, (gra-dd'shun,) n. [Fr.; Lat. gradatio — gradus, a step, a pace. See Grade.] A series of ascending steps or degrees, or a proceeding step by step; progress from one degree or state to another; a regular advance from step to step, or rank to rank.

"With no cold gradations of desay."—Dr. Johnson.

"With no cold gradations of seesy."—Dr. Johnson.

A degree in any order or series; order; series; sequence; regular process by degrees or steps; as, "a direct gradation of consequences."—South.

(Puinting, &c.) A term denoting the gradual receding of objects into the remote distance, by a proper strength or due diminution of light, shade, and color, according to their different distances, the quantity of light which shines upon them, and the medium of air through which they are seen.

they are seen.

(Mus.) A diatonic ascending or descending succession of chords.

Grada'tional, a. By gradation. (a.) Grada'tioned, a. Having gradations; formed by

gradations.

Grad'atory, a. [From Lat. gradus. See Grade.] Gradual; advancing step by step.—Adapted for progressive

movement.

Grad'story, n. [Lat. gradatorium.] (Arch.) A step
from the cloisters into the church.

Grade, n. [Fr.; A.S. grad; W. grad; Lat. gradus, a
step. Probably connected with the obsol. Heb. darag, Crade, n. [Fr.; A. S. grad; W. grad; Lat. gradus, a step. Probably connected with the obsol. Heb. darag, Heb. darnach, to ndvance, which, inverted, gives the word.] A step; a pace; a degree or rank in order or dignity; a step or degree in any descending series; as, the lowest grade of society, grades of military rank, &c.—The degree of ascent or descent in a highway or railroad; a gradient; as, a grade of 10 feet per mile.

—e. a. To reduce to a level, as the line of a highway, canal, or railrud. Grade'ly, a. [A. S. grada, step, order; D. gradd, from Lat. gradus.] An extensively used English provincialism, denoting descent; orderly; with propriety. Gradlemt, a. [Lat. gradiens—gradier, to step, to walk—gradus, a step, a pace.] Moving by steps; walking; as, "gradient automata." (Wikins.)—Rising or descending by regular degrees of inclination; as, the gradient line of a canal.

—n. A sloping way, line, or path; a grade.

gradient line of a canal.

—n. A sloping way, line, or path; a grade.

(Enginering.) The proportionate ascent or descent on any portion of a line of railroad; thus an inclined plane 4 m. long, with a total fall of 84 ft, is said to have a gradient of 21 ft. in the mile.

Gradian, Gradiane', n. [Fr. See Grade.] A seat placed above another.

"The gradians of the amphibheatrs."—Leyerd.

"The gradines of the amphitheatrs."—Layerd.
(Sculpt) A kind of indented chisel.
Gradin'ka, or Berbir, a strong fortress of European
Turkey, in Lower Bonnia, on the right bank of the Save.
Grad'unal, a. [Fr. graduel, from Lat. gradus.] Proceeding by steps or degrees; advancing step by step; passing from one step to another; regular and slow; proceeding by degrees in a descending or ascending line or progress; as, a gradual progress, a gradual decline.

—n. An order of steps.

Before the gradual prostrate they adored."

(Eccl.) In the liturgy of the Roman Catholic Church the term G. is applied to the lew verses of the Holy Scriptures, generally the Paslims, which are chanted after the reading of the Epistle, in the service of the Mass. It is so called from the priest, during the time, being on the steps of the altar.

Grad'unally, adv. By degrees; step by step; regularly; thank it is a gradual memory as he are required from better

slowly; in a gradual manner; as, he gradually got better Graduate, (grad'ū-āt.) v. a. [L. Lat. gradus, graduatus, to admit to academical degrees, from Lat. gradus To honor with a degree or diploma in a college or university; to confer a degree on.

"John Tregonwell, graduated a doctor, did good service." Caren

To divide, as any space, into small regular intervals; to form, as shades or nice differences; to mark, as degrees or differences of any kind; as, to graduate a thermom-

advance by degrees; to temper; to prepare, modify or improve gradually.

" Dyers graduate their colors with salts." -Bro

-e. n. To receive a degree from a college or university; as, he graduated at Harvard. — To pass by degrees; to change gradually, as certain minerals. — n. One who has received a degree in a college or university, or from some incorporated professional society;

Gracious, one of the Azores, in the Atlantic, 20 m. long, by an average of 6 m. in width. Its principal town is Santa Cruz. Phy. 10,000.—Also, one of the Canary islands, small, and of little note.

Gracious, (grath-odes,), n. [Sp.] The buffoon, a favorite character on the Spanish stage.

Gracious, (grath-odes,), [Fr. gracious; ] Lat. gratiosus.] Favorable; kind; friendly; disposed to forgive offences and impart unmerited blessings; benevolent; beneficent; benignant; merciful; as, "the good and gracious God."—South.

God."—South.

Aliving grace; renewed or sanctified by instruments, &c. — Marks or lines indicating degrees, &c. on astronomical and other instruments.—The process of bringing a liquid to a certain consistence by evapera-

tion.

Grad'unter, n. One who graduates; as, a graduater of philosophical instruments. An instrument of viding any straight or curved line into several intervals.

A small for accelerating the formation of vinegar by — A vessel for accelerating the formation of vinegar by arrangements to diffuse the liquid over a large surface, so as to secure rapid acetification, in consequence of exposure to the air

posure to the air.

Gravius, n. [An abbreviation of the Lat. gradus ad Purnasum, a step to Parnasum.] A dictionary of procody, designed for students of the classics. The first work of this kind was by the Jesuit Aler, and published at Cologne, 1702.

Gravily ville, in Kestucky, a post-office of Adair co. Gravel, (greci.) (Anc. Geog.) The inhabitants of Greece. Gravela Magma. Bee Magna Grazcia.

Gravile, (greci.) (Anc. Geog.) The inhabitants of Greece. Gravela Magma. Bee Magna Grazcia.

Gravile, Mar. Fran. von, an eminent German surgeon, s. in Warsaw, 1787. He was nominated professor of surgery and director of the surgical clinic in 1811; and became afterwards surgeon-general of the army, and co-director of the Friedrich-Wilhelm Institute and the Medical Surgical Academy. To him the science is indebted for the introduction of many new instruments and methods of operating. Among his works are to be particularly mattered. for the introduction of many new instruments and methods of operating. Among his works are to be particularly mentioned: Angicktasic, vin Beitrag sur rationellen Cur und Erkenntniss der Grässausdehnung (1808); Normen für die Ablösung grosser Gliedmassen (1812); Rhinoplastik (1818); Die epidemisch-contagiöse Augenblennorrhöe Agyptens (1823); Chirurgie und Augenheit-kunde (1820-40). D. 1840.—His son, ALBEREHT von GREFF, a most eminent oculist, born in Berlin, 1828, has devoted himself more particularly to ophthalmology, and established in Berlin a private clinic and hospital for eye diseases, which has become so well known as to be frequented by natients and students from all parts of the quented by patients and students from all parts of the world. He has been professor of ophthalmology from 1867. G. is a fine clinical lecturer, and ranks among

1867. G. is a fine clinical lecturer, and ranks among the most eniment oculists of the present day.

Graef'emberg, in Kenkeky, a post-office of Shelby co.

Graef'emberg, in New York, a village of Herkimer co.

Graef, (graff.) [Ger.] (Her.) A title of nobility, which, in Germany, corresponds to the title count. The first mention of this particular grade of nobility occurs in the 5th century. There are two classes of grafs in Germany at the present time, the first forming a section of the highest and oldest nobility, and the second representing the higher order of the lower nobles.

Graff emberg, a village of Austrian Silesia, 20 m. 8. of Neisse, famous for the hydropathic establishment of Priessnitz.

Priessnitz.

Graf'fer, n. [Fr. greffler, q. v.] (Law.) A notary; a

Graf'ser, n. [Fr. grefler, q. v.] (Law.) A notary; a scrivener.

Grafle, n. [A.S. graft, carved, cut, from grafan, to cut, dig; O. Ger, and Goth. graban; Sanak. gebh, to open. See Grave.] A small slip, shoot, or scion of a tree, inserted in another tree by making an opening or incision in it, the tree serving as the stock which is to support and nourish the scion. —See Gravino.

—v. a. [A.S. grufan.] To insert, as a scion or shoot, or a small cutting of it, into another tree; to propagate by insertion or inoculation; hence, to insert, as something in a body to which it did not originally belong; to join, as one thing to another, so as to receive support from it.

as one thing to another, so as to receive support from it. (Formerly written graff.)
"A new incident grafted upon the original quarrel."—Swift.

To practise the insertion of foreign scions on s stock.

"Graft upon divers boughs of an old tree; if you graft but u on he stock, the tree can bear but few."—Bacon.

Graft'er, n. One who grafts; one who propagates fruit, &c., by ingrafting.

Graft'ing, n. (Arboriculture.) A mode of propagating plants which is applicable to most kinds of trees and shrubs, with the exception of heaths and herbaceous vegetables, which do not so easily admit of the opera-tion. It is principally directed towards fruit-trees, in order to continue their varieties. A tree which is grafted consists of two separate parts,—the scion and the stock; the union of these two constitutes the graft, and the operation by which the union is effected is termed grafting. According to Loudon, the end of grafting consists: Firstly, in preserving and multiplying varieties of fruit-trees endowed, accidentally or otherwise, with particular qualities, which cannot be transferred to their offspring by seeds, and which would be multiplied too slowly or ineffectually by any other mode of propagation; secondly, to accelerate the fructification of trees, barren as well as fruit-bearing; thirdly, to improve the quality of fruits; fourthly, to perpetuate varieties of ornamental trees or shrubs; and lastly, to change the species of fruit on any one tree, and to renew its fruit. order to continue their varieties. A tree which is graftspecies of fruit on any one tree, and to renew its species of truit on any one tree, and to renew its fruit-fulness. Whip spice, or tungue-grafting, (2, 3, Fig. 1184), is the mode most generally adopted in nurseries for propagating fruit-trees. It is necessary, in order to per-form this correctly, that the top of the stock and the extremity of the scion should be of equal diameter. The Grafton, in West Virginia, a post-village cap. of Taylor

scion and stock are cut off obliquely at corresponding angles, or as near the same as the operator can guess; a slit is then made in the sloped face of the stock downwards, and in the scion upwards; the tongue thus con-structed of the scion is then inserted in the cleft of the stock, the inner barks of both being made to unite closely, and the whole is then bound round tightly bass riband from left to right. The next thing bass riband from left to right. The next thing to be done is to clay all round, over the bass, from about an



Fig. 1184. - GRAFTING.

Fig. 1184. — GRAFTING.

Inch below the graft to an inch above, closing up all the apertures, so that no light, wet, or wind can penetrate; for which object the clay is applied. CPA: grafting (1, Fig. 1184) is another variety, and only differs from the above method in the scion being shaped like a wedge, and being inserted in a corresponding cavity in the stock. Shoulder-grafting (4, Fig. 1184), used chiefly for ornamental trees, is performed by cutting obliquely, and then cutting across a small part at the top of the stock, so as to form a shoulder, the scion being cut to fit it. — In grafting, it is particularly to be attended to that the alburnum of the scion is brought into contact with that of the stock. The hard wood of the one never unities with that of the other, remaining separate and marking the place of the operation even in the oldest trees. For scions or grafts, pieces of about six to eight inches long are generally taken from the aboots of the previous summer, with several bads; but portions of shoots of two years old are sometimes successfully employed. The time for grafting is in spring, as soon as the sap begins to appear. The scion should, if possible taken from a healthy and fruitful tree, but scions from the extremities of lateral branches are more likely to become smadily fruitful than those from the unreal streets. from the extremities of lateral branches are more likely to become speedily fruitful than those from the upperto become speedily fruitful than those from the uppermost branches, where growth is most vigorous. The scion should be kept for a few days before grafting, so that the stock may rather exceed it, not only in vigor, but in the progress of its spring growth; and for this purpose may be placed in the ground, in a rather dry soil, sheltered from the direct rays of the sun. Scions may be kept for some time, and easily carried to a distance, by sticking their lower end into a potato. — The progress of the buds shows the union of the graft and stock, but it is not generally safe to remove the clay in less than three months; and the ligatures, although then loosened, are allowed to remain for some time longer. From some kinds of fruit-trees, fruit is often obtained in the second year after grafting. — Budding, longer. From some kinds of fruit-trees, truit is orten obtained in the second year after grafting. — Budding, q. v., is in principle the same as grafting; and Flut-grafting is a kind of budding in which a ring of bark is used instead of a single bud, and a stock of similar thickness having been cut over, a ring of bark is removed, and the foreign one substituted. This is compared to a stock of a similar moved, and the foreign one substituted. This is compared to the stock of the st moved, and the foreign one substituted. This is commonly performed in spring, when the bark parts readily, and is one of the surest modes of grafting. — Inarching, q. v., or grafting by approach, in which the scion is not cut off from its parent stem until it is united to the new stock, is practised chiefly in the case of some valuable shrubs kept in pots, in which success by the ordinary methods is very doubtful.

Graffom, a town of Ontario, in the county of Northumberland, about 38 m. S.W. of Belleville.

Graffom, in Illiania, a pote-tillage of Jerney co., on the Mississippi river, about 85 m. S.W. of Springfield. Pop. (1890) 927.

— A township of McHenry co.

A township of McHenry co.

—A township of McHenry co.

Graf'tom, in Massachusetta, a post-town and township
of Worcester co., about 40 m. W.S.W. of Buston. The
township contains several other important manufacturing villages. Pop. (1895) 5,101.

Graf'tom, in Michigan, a post-office of Monroe co.

Graf'tom, in New Hampphire, a W. cen. county, bordering on Vermont; area, about 1,766 sq. m. Ricer. Connecticut. Pemigrameet. Lower Ammonastic. and

necticut, Pemigewasset, Lower Ammonosuck, and the necticut, Femigewasser, Diwer Ammonosauce, and use Saco rivers. There are also numerous lakes and ponds, the principal of which are Squam and Newfound lakes. Surface, hilly; soil, fertile. Capitals, Haverhill, Plymouth and Woodsville. Pop. (1880) 37,217.

A post-township of Grafton co., about 45 m. N.N.W. of

Graf'ton, in New York, a post-township of Rensselaer

Graf'ton, in New York, a post-township of Rensessar co. Pop. (1890) 1,457. Graf'ton, in Ohio, post-village and township of Lorsin co., about 25 m. S. W. of Cleveland. Pop. of village (1891) 800. Graf'ton, in Vermont, a post-town and township of

(1891) 600. Graff Com, in Vermont, a post-town and township of Windham co., about 90 m. S. by E. of Montpelier. Pop. (1897) about 890. Graff Com, in Wisconsin, a post-village and township of

co., on the B. & O. R.R., 100 m. S.E. of Wheeling. Pop. (1897) about 3,340.

Gra'ham Station, in W. Va., a P. O. of Mason co. (Grain'-staff, n. Aquarter-staff, Gra'ham's Town, a town in the E. portion of Cape of Grafton co., abt. 45 m. N.N.W. of Concord.

Grafton co., abt. 45 m. N.N.W. of Albany.

Graf (1897) about 3,340.

Grafton Centre, in New Hampshire, a post-village of Urafton co., abt. 45 m. N.N.W. of Concord.

Gragmano, (gran-ya'no.) a town of Italy, in the province of Naples, 2 miles W. of Castellamare. Manuf. Woollen cloths. Itp. 11,425.

Grafmann, John, of Cleverhouse, Viscoukt Dundin, a scion of the no-le family of Montrose, (q. v.,) was B. in Scotland, 1641, and after an education at St. Andrew's Linken, its assertion of the Reach accurate for the Reach accurate f University, served in the French army from 166s till 1672, when he entered the Dutch service as a cornet of horse-guaris, and saved the life of William Prince of 1672, when he entered the Dutch service as a cornet of horse-guards, and saved the life of William Prince of Orange, at the battle of Sensfie, 1672. Returning to Scotland in 1678, he joined as lieutenant a troop of horse commanded by his cousin, the 3d Marquis of Montrose. At this period Charles IL's gort, was engaged in its fruitless attempt to force Episcopacy upon the Scotlish nation. The Covenanters flew to arme, and hostilities ensued between them and the royal authority. In this unhappy service G. was engaged, being defeated by the Puritans at Drunclog, 1679, and commanding the cavalry of the Duke of Monmouth at the battle of Bothwell Brig, where the Covenanters were utterly routed. It has been alleged that in his treatment of this religious body, G. was guilty of great inhumanity. This accusation has, however, been amply removed by the researches of recent historians. Attaining the rank of major-gen., G. was created a peer in 1688, as Viscoust Dundee. When James II.'s bigotry had expelled him from the English throne, G. remained faithful to the last to the fortunes of the House of Stuart; and being joined by the Highland clans, and a strong body of Irish, he raised the standard of rebellion against the govt. of William III. and Mary. When Gen. Mackay, commanding the English forces, marched into the Highlands, he set out to meet him, and the two armies met at the wild Pass of Killicrankie, July 27, 1689, Mackay's force was abt. 4,000 men, while Lord Dundee had under his command not more than 2,500 foot, with one troop of horse. The leattle was decided in a few minutes; one charge of the Highlanders put the English to rout with a loss of 2,000 men; their own being 900. Dundee fell of horse. The leattle was decided in a few minute; one charge of the Highlanders put the English to rout with a lose of 2,000 men; their own being 900. Dundee fell by a musket-shot in the moment of victory, and D. at Blair Castle shortly afterwards. The character and services of Lord Dundee have been greatly exaggerated and blackened by party spirit. With the Highlanders, he was the brave and handsome cavalier,—the "Bonnie Dundee" of song and story—the last of the great Scots and gallant Grahams. With the Covenanters he was Bloody Chaverse," the most cruel and rapacious of the commanders of that age. His name and deeds have been worthly commemorated by Sir W. Scott, Wordsworth, Aytom, and Grant; and the Memorials of Viscount Dundee, by Prof. Napier (Edinburgh, 1857), have vindicated his memory from the aspersions of Macaulay and others.

and others.
Gra'ham, Sir James R. G. Bart., an English states man, was B. 1792, of an ancient border family, and edu-cated at Westminster and Cambridge. Early in life he became British minister in Sicily, and on his return to England entered Parliament, where he distinguished himself as an advocate of Parliamentary Reforms and the suppression of the Slave Trade. On the formation of Earl Grey's govt. G. held a seat in the cabinet, and afterwards became First Lord of the Admiralty. Seced-ing from the Whig party in 1834, he joined the section headed by Sir R. Peel, with whom he held the closest political relations till his death. To any govt, he was either a most formidable opponent or a tower of strength. D. 1861. man, was B. 1792, of an ancient border family, and edu-cated at Westminster and Cambridge. Early in life he

either a most formidable opponent or a tower of strength. D. 1861.

Gra'ham, Thomas, D.C.L., F.B.S., an eminent English chemist, B. 1806. After taking his M. A. degree at Glasgow University, he was elected Andersonian Professor there, which office he held till 1837, when he was appointed Professor of Chemistry in the university of London. In 1855 he was made by the govt. master of the mint. Gracelentific acquirements are attested by his discoveries and his works. Among the most remarkable of the former is the law of the diffusion of gases, to which the Keith Prize of the Royal Society of Edinburgh was awarded in 1834, and his speculations on the constitution of phosphates and other salts, and his discovery of the diffusion of liquids, and of the new method of separation known as dialysis, for which he received the Copley Medal of the Royal Society in 1822. Among his published works may be mentioned the Elements of Chemistry, which has passed through two editions in England, and been extensively circulated on the Continent of Europe. G., who was a corresponding member of the Academy of Sciences of the Freuch Institute, D. 1869. Graham, in Ariansas, a village of Independence co., abt. 10 m. N.W. of Batesville.

Graham, in Indiana, a post-township of Jefferson county.

Graham, in Ima, a township of Johnson co.
Graham, in Missouri, a post-village of Nodaway co, on the Nodaway River, about 36 m. N. by W. of St. Joseph.
Graham, in N. Carolina, a post-village, cap. of Alamane co., abt. 58 m. W.N.W. of Raleigh.

mance co., abt. 58 m. W.N.W. of Raleigh.

Liraham, in Texa, a post-town, capital of Young co.

Pop. (1850) 725.

Graham, in Vo., a post-town of Tazewell co. Pop. 1,021.

Graham, in Vo., a post-town of Tazewell co. Pop. 1,021.

Graham, i.e., a for a for a for a formal (a for a formal a formal a formal a for a formal a forma

GRAI

(1835) 11,280.

Gra'hamsville, in New York, a post-village of Sullivan co, about 20 m. 8.8.W. of Albany.

Gra'hamsville, in Ohio, a post-office of Jackson co.

Gra'hamton, in Kenkely, a post-village of Meade
vo, about 30 m. 8.W. of Louisville.

Gra'hamton, in Pennyleania, a post-village of
Clearfield co., abt. 116 m. W.N.W. of Harrisburg.

Gra'hamville, in Pennyleania, a post-village of
Fra'hamville, in S. Chrolina, a post-village of
Beautort dist, abt. 120 m. 8. of Columbia.

Graigue, (grdg.) a town of Ireland, in the co. of Kilkenny, on the Barrow, abt. 5 m. 8. of Goresbridge; pop.
2,300.

draigue, a town of Ireland, in Queen's co., Leinster, on the Barrow River, opposite Carlow; pop. 1,600. Grail, s. [From L. Lat. gradale.] (Ec.) Formerly, in the Roman Catholic Church, a book of hymns and prayers; a gradual.

(Antiq.) See Holy Grail, or Sangralis.

(Antiq.) See Holy Grail, Small particles of earth; detritus; gravel.

This knight, ... lying down upon the sandy grade."— Spensor.

Grain, n. [Fr.; Lat. gramm, a grain, seed, kernel; Ir. grain, corn; W. grænnen, a grain.] A seed of corn; a small kernel; especially a single seed of any cereal plant which is used for food.—The fruit of cereal plants in general, as wheat, rye, barley, oats, or the plants themselves;—used collectively; as, a cargo of

grain.
"Tis a rich soil, I grant you; but oft ner covered with a than grain." - Collier.

than grain."—Oblier.

Any small, hard mass or minute particle; as, a grain of sand, a grain of salt; — hence, by implication, any small portion or modicum; as, he has not a grain of sense, a grain of manhood, &c. — The body or substance of a thing, considered with respect to the size, form, or direction of the constituent particles. — The form of the surface of any thing with regard to smoothness and roughness; texture; state of the grit of any body composed of grain.

"Stopse of a constitution so compact, and a grain so fine, that

Stones of a constitution so compact, and a grain bear a fine polish." — Woodward.

The veins or fibres of wood, or other fibrous substan the body or substance of wood, as modified by the fibres " Beech and linden of a softer grain." — Dryden

A rough or fibrous texture on the outside of the skin of animals.— A crimson, scarlet, &c. dye or tincture; sometimes used in poetry to denote Tyrian purple.

"All in a robe of darkest grain."— Milion.

tine; a prong. L. The husks of malt after brewing, or the residuum pl. The husks or more of any grain after distillation.
"Give them grains their fil

Give them grains their fill,

Husks, draff to drink and swill." — Ben. J

Hush, draft to drink and swill."—Ben. Sonon.

(Weights.) The unit of our system of weights, being the 7,000th part of a pound (avoirdupois); in other words, the 70,000th part of the weight of an imperial gallon of water at 62° Fahr., the barometer being at thirty inches. Under the same conditions, a cubic inch of water weighs 252\*458 grains. The ounce avoirdupois contains 437-5 grains; the apothecaries' and the troy ounce 480 grains. The French decigram is about 1's grains, the gramme being = 15\*437 English grains.

Apainst the grain, against the fibrous direction of wood;—hence, unwillingly; reluctantly; hesitatingly; with displessure or difficulty.

"Quoth Huddbras, It is in vain,

Quoth Hudibras, It is in vain, I see, to argue 'gainst the grain." — Budth

To go against the grain of, to be repugnant or displeasing to; to occasion diagnet, vexation, or mortification to.— Grains of allowance, something remitted or in dulged; something above or under the exact weight.

I would always give some grains of allow noe of theology." — Watts.

In grain, innate; fixed; established; firmly seated. They lived as brothers, but not united in grain To dye in grain, to dye with the tint called grain; or in other words, to dye deeply, or in the raw material.

"Like orimon dyed in grains."— Spenser.

-e. a. To paint an imitation of the grain or fibres of wood; to dye, stain, or color permanently; as, to grain a walnscoting.— To form into grains, as powder; to granulate.

granulate.

-v. n. [Fr. grainer.] To assume a granular form, after partial crystallization; as, coarse-grained gunpowder.

Grained. a. Formed into grains; diffided into small particles. — Painted in imitation of the grain of wood.

—Dyed in grain; ingrained; as, "grained in honesty."

(Bot.) Having tubercles, as the segments of the flo

(1991.) Having successful of the Runez.

Grain'er, n. One who paints in imitation of wood.

— A preparation used by tanners for imparting flexibility to skins; a lixivium.

bility to skins; a lixivium.

Grain'ing, n. A method of painting in which the grain or fibres of wood are imitated.—Indentation.—
A process whereby skins are softened in leather dressing, (2001.) An English fresh-water fish resembling the doce; Luciscus Lancastriensis.

Grain of Paradise, n. See Anonum.

Grains, n. pl. [Dan. green, a branch, a bough, the prong of a fork.] An Iron Instrument with four or more barbed promes or points, used at sea for striking dolphins and other fish.

Maranhão, joins the Miarim near San Bento. Length, abt. 240 m.
Grakle, n. See Grackle.
Grakle, n. See Grakle.
Grakle, n. S Connecticut, anow that formerly at least seven species of Grallatores existed, varying in size from that of an ostrich.—The families of the order are the Graide or Crane; the Aramide or Courselas; the Ardeide or Heron; the Cinconides or Stork; the Tantalides or Ibis; the Plataleides or Spoon-bill; the Phoenicopterides or Plumingo; the Charadrides or Honer; the Hamatopodides or Turnstone; the Phalaropide or The Department of the Phalaropides or Turnstone; the Phalaropides or Turnstone; the Phalaropides or Turnstone; the Phalaropides or Supra and the Policies. Phalarope; the Scolopacids or Suipe; and the Rall

or Rail.

Grallato'rial, Gral'latory, a. [From Lat. gral-lator. See Grade.] Pertaining, or having reference to the Grallatorus or Waders.

Gramm, n. See Gramms.

Gramm, n. In India, a kind of grain used as food for

horse.

Gram'arye, n. [Fr. grimoir.] The art of necromancy.

Gra'meulte, n. (Min.) A hydrated silicate of iron, of
a grass-green color, from Menzenberg. Sp. gr. 1:87.

Comp. silica 427, seequloxide of iron 380, water 193.

Grammer'cy, inter). [Contracted from grant me mercy.]
A phrase formerly used to express thankfulness, attended with surprise.

"Grammers, lovely Ludius, what "the news?" — Make.

ercy, lovely Lucius, what 's the news?" — &

"Gressery, lovely Lucius, what's the news?"—Baks.

Grammina"ceme, n. pl. [Lat. gramen, grass.] (Bot.)
The Grasses, an order of plants, alliance Glumales. Diag.
Split-sheathed leaves, a one-celled ovary, and a lateral
naked embryo.—Of all the orders in the vegetable kingdom, this is the most important to man, as it affords his
principal food, and is eminently serviceable in other respects, by supplying fodder for cattle, singer, and numerous useful products. As a lotanical group, there is none
more natural, for the variations observed in the heric,
shruba, and arborescent plants composing it are of the
simplest kind, arising generally from differences in the
proportions of parts. The stem of a grass is round, jointed,
and commonly hellow. The leaves are alternate, with
split sheaths, terminating above in membranous tongues
or ligules. The flowers are perfect, or unisexual, and
grow in bunches (locustæ or spikkelets) or singly. There is



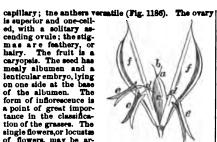
Fig. 1185.

, spikelet with one floret; two anthers:  $\delta$ , spikelet with two florets, shown detached from the glumes; three anthers:  $\epsilon$ , spikelet with many florets; six anthers.

spikelet with many florets; six anthers.

no true perianth, its place being supplied by imbricated bracts (the chaff-scales); of which there are commonly two, called glumes (Fig. 1186), placed at the base of the solitary flower, or at the base of each locustic, rarely, there is only one glume. Occasionally these envelopes are altogether absent. Each flower is also usually furshed with two additional alternate bracts, called pales (a a, in first illustration); sometimes the inner pales is wanting. There are also, in some cases, two or three scales, called delicules or glumellules, present. The stamens vary in number from one to six, or even more—the number is frequently three; the fluments are

mealy albumen and a lenticular embryo, lying on one side at the base of the albumen. The form of inflorescence is a point of great impor-tance in the classification of the grasses. The single flowers, or locustee of flowers, may be arranged on a central col- Fig. 1186,-umn (rachis), so as to FLORET;



-SPIKELET WITH ON PLORET: THREE ANTHERS:

form a compact head or a, the floret; b, stigmas; c, ovule spike (as in wheat); or d, filaments; e, anthers; f, glumes they may be placed on a

they may be placed on a more or less branched axis, so as to form a panicle (as in the cat). Grasses are universally distributed over the globe. In temperate and cold climates they are herbaceous, and of moderate height, while in tropical climates they become shrubby and arborescent, and sometimes grow to the height of fifty or sixty feet. Grasses usually grow together in large masses, and thus form the verdure of great tracts of soil; hence they have been termed social plants. There are 300 genera, and probably about 3,800 species. The most important genera are Triticum, wheat; Hordeum, barley; Avena, oat; Oryea, rice; Zea, Indian corn or maise; Secale, rye; Punicum, millet; Succharum, sugar-cane; Bambusa, bamboo; Andropogon dactylis, and Holcus.

Gramminacous, (gram-i-ma'shus, a. From Lat. gramen, graminis.) Gramineous, belonging to the grasses.

Graminacoous, (gram-in-a'shus,) a. From Lat. gramen, graminic.] Gramineous; belonging to the grasses.
Gramin'cous, Gramin'cal, a. [Lat. gramineus; from gramen, graminit, grass. See Grass.] Grassy; like or pertaining to grass; as, a gramineous plant.
Graminifo'lious, a. [Lat. gramen, and folium, leaf.]
Having leaves resembling those of grass.
Graminiv'orous, a. [lat. gramen, and voro, to devour.] Feeding or subsisting on grass, as cattle, horses, &c.
Grammalogue, (gram'mā-log.) n. [Gr. gramma, a letter, and logos, speech.] (Phonog.) A letter-word; a word represented by a logogram; as, it represented by [, that is. t.]

letter, and logos, speech.] (Phonog.) A letter-word; a word represented by a logogram; as, it represented by a logogram; as, and develops the principles which are common to all languages. — The art of speaking or writing a language; propriety of speech. — A look containing the principles and rules for the speaking or writing of a language; propriety of speech. — A look containing the elements of any science. — Considered as an art, G. necessarily supposes the provious existence of a language, the object of which is to communicate thought. Without attempting any alteration in a language already in use, it furnishes certain rules, founded on observation, to which the method of speaking adopted in that language may be reduced; and this collection of rules is called the G. of that language. But apart from G., as applied to any particular language, there is the pure science of G., otherwise called universal G., which views language only as significant of thought, and, neglecting particular and arbitrary modifications introduced for the sake of beauty or otherwise, examines the analogy and relations between words and ideas, — distinguishes between those particulars which are essential to languages and those which are only accidental, — and thus furnishes a certain standard by which different languages and those which are only accidental, — and thus furnishes a certain standard by which different languages and particular was the first practical grammarian was the first practical teacher of language, and on ono one else. G., therefore, is of comparatively modern origin. No ancient Grea there about the time of Pompey. He was the first who applied the results of the labors of former philosophers and critics to the practical work of teaching. His work thus became one of the principal channels through

which the grammatical terminology which had been carried from Athens to Alexandria flowed tack to Rome, to spread from thence over the whole civilized world. We can follow the stream of grammatical science from Dionysius Thrax to our own time in an almost uninterrupted chain of Greek and Roman writers. We find M. Verrius Flaccus, the tutor of the grandsons of Augustus. rupted chain of Greek and Roman writers. We find M. Verrius Flaccus, the tutor of the grandsons of Augustus, and Quintilian, in the first century; Scaurus, Apollonius Dyscolus, and his son Herodianus, in the second; Probus and Donatus, the teachers of St. Jerone, in the fourth. After Constantine had moved the seat of government from Rome, grammatical science received a new home in the academy of Constantinople. There were no less than 20 Greek and Latin grammarians who held professorships at Constantinople. Under Justinian, in the sixth century, the name of Priscianus gave a new lustre to grammatical studies, and his work remained an authority during the Middle Ages to nearly our own times. We ourselves have been taught G. according to the plan which was followed by Dionysius at Rome, by Priscianus at Constantinople, by Alcuin at York; and whatever may be said of the improvements introduced into our system of education, the Greek and Latin grammars used at our public schools are mainly founded on the first empirical analysis of language prepared by the philosophers of Athens, applied by the scholars of Alexandria, and transferred to the practical purpose of teaching a foreign tongue by the Greek professors at Rome. It is in the grammar of a language that we can trace its distinctive features. The English language, for instance, is made up of words borrowed from almost every country of the globe, — Latin, Greek, Hebrew, Celtic, Saxon, Danish, French, Stanish, Lialian, German,—uay, instance, is made up of words borrowed from almost every country of the globe, — Latin, Greek, Hebrew, Celtic, Baxon, Banish, French, Spanish, Italian, German,—nay, even Hindustani, Malay, and Chinese words lie mixed together in the English dictionary; but not a single drop of foreign blood has entered into the organic system of the English language. "The grammar, the blood and soul of the language," (Max Müller, Lectures on the Science of Language, 3d ed. 1862.) "is as pure and unnixed in English as it was when spoken on the shores of the German Ocean by the Angles, Saxons, and Jutee of the continent." Grammar is, after all, but declension and conjugation. Originally, declension could not have been anything but the composition of a noun with some been anything but the composition of a noun with some other word expressive of number and case. The like holds true with regard to verbs, though it may seem difficult to discover in the personal termination of the Greek and Latin the exact pronouns which were added to the root of the verb in order to express, I love, thou to the root of the verb in order to express, I love, thou lovest, he loves. It stands to reason, however, that originally these terminations must have been the same in all languages, namely, personal pronouns. "It is very likely," says the author already quoted, "that the gradual disappearance of irregular declensions and conjugations is due in literary, as well as in illiterate language, to the dialectof children. The language of children is more regular than our own. I have heard children in the gradual than our own. I have heard children in the gradual than our own. I have heard children in the gradual than our own. I have heard children in the gradual than our own. I have heard children in the gradual than our own. I have heard children in the gradual than our own. I have heard children in the gradual than our own. I have heard children in the gradual than our own. I have heard children in the gradual than our own. I have heard heard children in the gradual than our own. I have heard chi relation to the theme whence it is derived; Syndaz, or what relates to the construction or due disposition of the words of a language into sentences or phrases; and Prosedy, or that which treats of the quantities and accents of syllables, and the art of making verses. All language is made up of words, which may be defined to be sounds significant of some idea or relation, and may be distinguished as—1. Substantives; 2. Attributives; 3. Definitives; and 4. Connectives. Substantives are words expressive of things which exist, or are conceived to exist of themselves, and not as the energies or qualities of anything else. They are nouns and pronouns, the latter being a species of words invented to supply the place of nouns in certain circumstances. They admit of the accidents of gender, number, and case. Attributives are words that are expressive of all such things as are conceived to exist not of themselves, but as the attributes of other things. They are verbs, participles, adjectives, and adverbs. The attributes expressed by verbs have their essence in motion or its privation; and as motion is always accompanied by time, therefore verbs are liable to certain variations called tenses. To denote the several kinds of affirmation expressed by verbs, all everbs have what is termed moods or modes: as the indicative, I write; subjunctive, I may or can write; imperative, write thou. Verbs are also distinguished as active-transitive when the action denoted by them pusses from the actor to some external object; active-intransitive, when no such passing takes place; passive, such as active-transitive when the action denoted by them passes from the actor to some external object; active-intransitive, when no such passing takes place; passive, such as express not action, but passion, as suffering; and neuter, such as express an attribute that consists neither in action nor in passion. Participles are such words as express an attribute combined with time, as writing, express an attribute combined with time, as writing, written. Adjectives express, as inhering in their substantives, the several qualities of things of which the essence consists not in motion as its privation: as, good, bad, proper. Some qualities are of such a nature that one substance may have them in a greater degree than another; and therefore adjectives denoting these qualities admit, in most languages, of variation called degrees of comparison. Adverbs, from being attributes of attributes, have been called attributives of the second order, to distinguish them from verbs, participles, and adjectives, which denote the attributes of substantives, and are therefore called attributives of the first order. Adverbs are of two kinds, — those which are common Adverbs are of two kinds. - those which are common

to all attributives of the first order, i. e., which coalesce to all attributives of the first order, i. 4. which coalesce equally with verbs, participles, and adjectives, and those which are confined to verbs. Definitives are such words as serve to define and ascertain any particular object of objects as separated from others of the same class. These are commonly called articles; of which there are two kinds—the definite and indefinite. Connectives These are commonly called articles; of which there are two kinds—the definite and indefinite. Connectives are such words as are employed to connect other words, and of several distinct parts to make one complete whole. They are of two kinds—conjunctions and propositions. Conjunctions are those connectives which are commonly employed to conjoin sentences. They are of two kinds,—conjunctives, or such as conjoin sentences and their meanings too, and disjunctives, or such as, while they conjoin sentences, disjoin their meanings. Propositions conjoin words which refuse otherwise to coalesce; and this they do by signifying those relations by which the things expressed by the united words are connected in nature. Interjections are a class of words which are to be found in perhaps all languages, but they cannot be included in any of the above classes, for they are not subject to the rules and principles of grammar, as they contribute nothing to the communication of thought.

Grammana'riama, n. [Fr. grammarien.] Anciently, a title of honor given to persons accounted learned in any art or faculty whatsoever; now, one who is skilled in or who teaches grammar.

GRAN

art or faculty whatsoever; now, one who is skilled in or who teaches grammar.

Grammas'riamism, n. The principles or pedmic style of grammarians. (a.)

Grammasrless, a. Without a knowledge of grammar, Grammasrless, a. Without a knowledge of grammar, Gramm'masr-school, n. A school in which the learned languages, Latin and Greek, are taught grammatically.

A school above a primary school and below a high-school. (U. S.)

school. (U. S.)

Grammat'ic, Grammat'ical, a. [Fr. grammatical; Lat. grammatical; Gr. grammatical.] Belonging to grammar; as, grammatical rules.—According to the rules of grammar; as, grammatical construction, his speech is not grammatical.

Grammat'ically, adv. According to the principles and rules of grammar; as, to write grammatically.

Grammat'icalness, n. State or quality of being grammatical, or according to the rules of grammar.

Grammat'icaster, n. [L. Lat.] A low grammarian; a mere verbal pedant.

"My noble neophyte, my little grammaticaster."—Ben Jonea.

Grammat'icalse., v. a. [Gr. grammaticaste.] To render

Grammat'icize, v. a. [Gr. grammatikiző.] To render grammatical.

e. n. To act the grammarian.

Frammat'ico-histor'ical, a. Referring at once to grammatical usage and to historical modes of interpretation.

Grammatical usage and to historical modes of interpretation.

Grammmatical usage and to historical modes of interpretation.

Grammmatical usage and to historical modes of interpretation.

Grammmatica, n. [Gr. grammar; a grammaticaster.

Grammme, (gram.) n. [Fr.] The unit of weight in the French metric system. It is the weight of a cubic centimative of distilled water at its greatest density, that is to say, at the temperature of 4·10 of the centigrade thermometer. It is somewhat under 15½ grains, its exact value in grains being expressed decimally by 15·4346.

Grammment. [Flem. Gerardsbergen; Lat. Gerard Mons.] A town of Belgium, in the prov. of E. Flanders, on the Dender, 15 m. 8.E. of Oudenarde. Mans.] Linea, carpets, and paper. Ppp. 8,250.

Gramm'mont. [Flem. Gerardsbergen; Lat. Gerard Mons.] A town of whom are:—Gramm. a cardinal and diplomatist, in the time of Louis XII. and Francis I; D. 1534; Anthony, duke of Grammont, marshal of France, and vicercy of Navarre, author of Memoirs, D. 16.5; Almand, son of Anthony, known by his memoirs, written by his brother-in-law Authony, Count Hamilton, D. 17.9; Anthony, duke of Grammont, a Frech marshal and ambasador, known as Count de Guiche, and the countessed of Tankerville and Sebastiani. D. 1836.

Gramm'plams, a mountain range in Scotland, and the most important chain in N. Jaitain.—The G. commence in the W. part of Scotland, from the extremity of the lowest arm of the Frith of Clyde, between the counties of Argyle and Dunbarton, add, running N., sweep round in a deep semicircle to the E., till they nearly impings on the German Ocean, in the country of Kincardine, Before, however, reaching this terminus, a branch is thrown off, which, trending in a N.W. direction, form a lesser curve, which, passing through Aberdeen, Banf, and Elgin, is finally lost on the skirts of Inversesshire. In this extended course it sends up several left peaks, that form the highest eminences in Scotland, of these the most impurtant are Br. Lomomd, Ben. Lai, Ben. Morr. Ben. Lawerr., and Brn

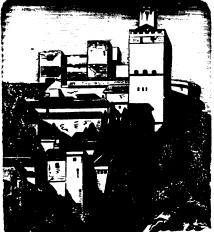
Digitized by GOGIC

Gram'by, in Missoria, a township of Nicollet co.

Gram'by, in Missoria, a post-village and township of
N. by Andalusia, on the E. by Murcia, and on the
and S.E. by the Mediterranean. It is now divided into
the 3 provs of Gramada, Almeria, and Malaga, the unite
areas of which amount to 11,063 eq. m. The surface of
G. is mountain-ranges, the chief of which are the Sierra
Nevada, the Sierra de Ronda, and the Alpujarras, as a
general rule, run parallel with the coast. The principal
rivers are the Almanzora, Almeria, Genil, Guadalhore,
and Guadiaro. The prov. of G. is, on the whole, fruitful
and highly cultivated. The mountains are rich in silver,
copper, lead, and iron; and many of the inhabitants are
engaged in mining and smelting. Saline and mineral
springs abound. Pop. 463,300. G. was part of the Boman prov. of Boetica; but after the Arab invasion
to formed an independent Moorish kingdom. For a time
it was exceedingly wealthy, having developed great
agricultural and commercial resources. It was the last
possession of the Moors in Spain, and was conquered by
Ferdinand and Isabella in 1492.
Graxm'by, in Missoria, a township of Nicollet co.
Gram'by, in Nw York, a township of Oswego county,
of when York, a post-township of Essex co., about
45 m. N.E. of Montpelier.
Gram'by, in Nw York, a township of Nicollet co.
Gram'by, in Nw York, a township of Oswego county,
of which are proved to the Warn'by, in Nw York, a township of Oswego county.
Oewego co., about 26 m. N.W. of Syracuse.
Gram'by, in Nw York, a township of Oswego county.
Oewego co., about 26 m. N.W. of Syracuse.
Gram'by, in Nw York, a township of Oswego county.
Oewego co., about 26 m. N.W. of Syracuse.
Gram'by in Nw York, a township of Oswego county.
Oewego reventive, in New York, a post-township of Oswego county.
Oewego co., about 26 m. N.W. of Syracuse.
Gram'by in Nw York, a township of Oswego co.
Oewego co., about 26 m. N.W. of Syracuse.
Gram'by in Nw York, a township of Oswego co.
Oewego co., about 26 m. N.W. of Syracuse.
Gram'by in Nw York, a township o

Ferdinand and Isabella in 1492.

Grana'ra, the cap. of the above province. It was the ancient metropolis of the Moors in Spain, and stands on the Genil, 120 m. from Seville; Lat. 37 16 N., Lon. 30° 45 40° W. The town exhibits the form of a half-moon, its streets rising above each other, with a number of turrets and gilded cupolas, the whole crowned by the Alhambra, or palace of the ancient Moorish kings, and in the background the Sierra de Nevada, covered with persental several 15 to half on the regiment by the and divided. petual snow. It is bullt on two adjacent bills, and divided into four quarters. The river Darro runs between the two bills, and traverses the town, after which it falls into the larger stream of the Genil, which flows outside the



Pig. 1187. — THE ALHAMBRA.

Fig. 1187.—THE ALHAMBEA.

walls. The principal buildings are the cathedral, the archbishop's palace, the mansion occupied by the captain-general of the province, the university, and several hospitals; but the grand ornament of Granada is the Alhambra, the wonder of Arabian architecture. Though now, like the town, in a state of decay, its remains sufficiently evince its original splendor. It commands a beautiful prospect; but a still finer is afforded by another Moorish palace, called the Generaliffe, built on the opposite hill, and the retreat of the court during the heats of summer. Manuf. Silk and woollen stuffs, gunpowder, saltpetre, paper, hats; and there is an oil-trade carried on. Pop. (1895) 76,110.

Grama'da, a city of Nicarsgua, Central America, on the Lake Nicarsgua, 30 m. from Nicarsgua city; Lat. 10° 12' N., Lon. 87° 49' W. It is well built, and contains many handsome edifices. Its principal trade is in cocca, indigo, wool and hides. Pop. (1895) 15,540.

Grama'da, in Kamsas, a poet-office of Nehama co. Grama'da, New. See Colon sia, Refuelic of. Grama'da, New. See Colon sia, Refuelic of. Grama'da, New. See Colon sia, Refuelic of. Grama'da, New. See Passitions.

Grama'da, a town and parish of Ireland, in the co. of Longford, Leinster, about 59 m. W.N. of Dublin; pop. about 2,400.

Gram'ard, a town and parish of Ireland, in the co. of Longford, Leinster, about 59 m. W.N. of Dublin; pop. about 2,400.

Gram'ard, a town and parish of Ireland, in the co. of Longford, Leinster, about 59 m. W.N. of Dublin; pop. about 2,400.

about 2,400.

Gram'ary, s. [Lat. gramaria, from gramm, a grain.]
A storehouse for threshed grain.

Gram'by, John Manners, Marquis or, a famous English general, was the eldest son of the duke of Rutland, and commanded with honor during the Seven Years'
War in Germany. He was very popular in his time; but his military qualities appear to have been much overrated by his contemporaries. After the peace of 1773, he retired into private life. Died 1770.

Gram'by, a village of Quebec, in the co. of Sheffield, about 50 m. S.S.E. of Montreal.

Gram'by, in Commerciant a nost-town of Hartford co.

about 50 m. S.S.E. of Montreal.

Gram'by, in Connecticut, a post-town of Hartford coabout 15 m. N.N.W. of Hartford. In this township are
the celebrated Simsbury mines, formerly used as a
prison. Pop. (1897) about 1,275.

Gram'by, in Meschasetts, a post-town and township
of Hampshire county, about 100 miles W. by 8. of Boston. Pop. (1890) 765.

And one by one, in turn, some grand mistake, Casts off its bright skin yearly, like the snake."

Casts off its bright skin yearly, like the snake."—Byron.

Of great size, or noble, commanding, and imposing in
form, appearance, or characteristic nature;—hence,
figuratively, lilustrious; eminent; dignified; august;
majestic; noble; high in power or dignity; as, a grand
lord, (said of persons;) spleudid; magnificent; sublime;
lofty; elevated; conceived or expressed with great dignity, (used with respect to things;) as, a grand design,
a great dignoratery.

rand view, a grand discovery.

The grand old ballad of Sir Patrick Spence."

-Possessing an elevated or advanced rank, as in years or station; as, a grand duke, a grand vizier, a grand jury, &c.; also frequently forming the prefix of a compound

&c.; also frequently forming the prefix of a compound word; as, a greadmother.

Grandi, in Colorado, a N. co.; area, 2,100 sq. m. It is drained by North Platte, Grand and Laramie rivers, all of which rise within its limits. Surface, mountainous; there are extensive forests. Minerals, gold and silver. Mining and stock raising are the chief occupations. Cap. Hot Sulphur Springs. Pop. (1890) 604.

Grandi, in Okio, a township of Marion co.

Grandi, in South Dakota, a township of Douglas co.

Grandi, in Ulah, an E. co.; area, 3,175 sq. m. It is bounded by Green river on the W., and intersected by Grand river. Surface, mountainous. Cop. Mosb. Pop. (1896) 891.

(1895) 891. Grand and dome.] An old woman :-

specifically, a grandmother.

Grand Bank. See Newroundland.

Grand Bay, in Alabama, a post-village of Mobile co.
on the L. &. N. R.R.

on the L. &. N. R.R.

Grand Blame, in *Michigan*, a post-village and township of Genesee co., about 50 m. N.W. of Detroit.

Grand Calllon (kah-yoo), in *Louisiana*, a bayon of Terre Bonne parish, flows S. into the Gulf of Mexico.

Grand Came, in *Louisiana*, a post-village of De Soto

parish.

Grand Che'mier, in Louisiana, a post-office of Cam

eron parish. Grand'child, s. A son's or daughter's child.

" Fair daughter, and thou son and grandchild both!" Grand Coteau' (ko-tō), in Louisiana, a post-town of St. Landry parish.

Grand'-daughter (daw'ter), n. The daughter of s

son or daughter

Grand Detour, in Illinois, a post-village of Ogle co., on Rock river, about 166 m. N. by E. of Springfield.
Grand'-Duke, s. A reigning duke, inferior in rank to a king; as the Grand-Duke of Baden.—In Russia, a title given to the younger sons of the imperial family; as, the Grand-Duke Constantine.

(Ornid). The great-horned owl.—See Buso.
Grande, a river of Peru which falls into the Guapiri.—Two rivers of Brazil, one falling into the San Francisco, Lat. 11º 35' S.; and the other into the Atlantic, Lat. 15° 28' S.—A river of Zanguebar, East Africa, flowing into the Indian Ocean, Lat. 2° S.
Grande, or Rio Grands. See Rio Grands.
Grande Amse, a village and parish on the N. coast of Martinique, W. Indies, about 16 m. N. of Port Boyal.
Grande Chute, in Wisconsia, a township of Outsgamle co.

gamle co.

Grand Ecore, in Louisiana, a village of Natchitoches parish, about 50 m. N.W. of Alexandria.

Grandee', n. [Sp. grande, from Lat. grandis, great.]

The highest title of Spanish nobility. The collective body of the grandees is called la grandea. To this class belonged that very powerful section of the nobility who, from their great wealth, were called the ricos hombres (rich men). The grandees were originally the descendance of the great femilatories of the crown, and were (rich men). The grandees were originally the descendants of the great feulatories of the crown, and were possessed of many important privileges; among which were exemption from taxation, and from the power of any civil or criminal court, without a special warrant from the king. They had also the right of bearing a banner, and of enlisting soldiers on their own account, and might even enter the service of a foreign prince at war with Castile without being guilty of treason. They had the right in all public transactions of being covered in the presence of the king, who addressed a grandee as sui primi, "my cousin-german." At length Cardinal Ximenes succeeded in breaking their power, and depriv-Animenes succeeded in oreasking their power, and depriving them of many of their privileges. Subsequently it became the practice of the Spanish kings to raise new men to the rank of grandee, partly with the view of destroying the power of the ancient nobility, and partly to reward their friends. In this way three classes of grandess arose, differing in rank as well as in the privi-leges which they enjoyed. Under the government of Joseph Bonaparte the dignities and privileges of the grandess were entirely abolished. They were partially restored at the Restoration, but no very important privi-

ieges were bestowed upon them.

Grandes ship, s. Bank or state of a grandes.

Grandes ship, s. Bank or state of a beautiful of the State, rises on the S.E. slope of the Blue Mountains, and flowing N.E. enters the Lewis Fork of the Columbia river on the border of Washington.

Grande Terre, in the W. Indies. See GUADALOUPE.
Grandeur (grandjur, n. [Fr.] State or quality of being grand; greatness; sublimity; loftiness; splendor oeing grand; greatness; sublimity; lottiness; splendor of appearance; state; magnificence; elevation of thought, sentiment, or expression; elevation of mien, or air and deportment; nobility of action. Grand'father, n. A father's or mother's father. Grand'fatherly, a. Having the air, aspect, or man-ner of a grandfather; venerable; benignant.

"He was a grand/atherly sort of personage."—Hauthorns.

Grand'father Mountain, in North Carolina, an isolated elevation N.N.E. of Mount Mitchell, in Watauga

isolated elevation N.N.E. of Mount Mitchell, in Watauga co. Height, about 5,897 feet.

Grand Forkas, in North Dakota, a N.E. co.; area, 1404 sq. m. It is bounded on the E. by the Bed river of the North. Surface, chiefly prairie; timber plentiful; soil, fertile. Cap. Grand Forks. Pop. (1890) 18,267.

Grand Gulf, in Mississippi, a post-village of Claiborne co., on the Mississippi river, 2 m. below the mouth of Black river, and 60 m. above Natches; pop. about 160. The strong batteries erected at this place by the Confederates, for commanding the river, were taken by a Union fiotilia under Admiral Porter, after a severe cannonade, May 3, 1863.

Union notine under Amiriar Forter, after a severe can-nonade, May 3, 1863.

Gramd Havven, in Michigon, a fine city, cap. of Ottawa co., on Grand river, at its entrance into Lake Michigan, about 31 m. W. by N. of Grand Rapids. Pop. (1894) 5,276.

Grandiffic, a. [Lat. grandificus.] Making great.

Grandil'oquemee, s. [L. Lat. grandiloquentia, from Lat. grandiloquess — grandia, and loquor, to speak.] Pompous or inflated language; bombast; use of lofty words or high-sounding phrases.

Pompous of inflated ianguage; communit; use of ionly words or high-sconding phrases.

Gramd'im, in Missouri, a post-village of Carter co.

Gram'diese, a. [Fr.] Imposing; striking; tending to produce an elevating effect; (used in a good sense.)—

Bombastic; swelling in sound or sense; tunid; turgid; inflated; (used in a bad sense;) as, a grandiose style of

writing:
Grandice/ity, a. [Fr. grondiceiti.] Bombastic sense,
style, or manner; also a grandicee, or pompous person.
Grand Isl'and, in Colifornia, a post-village and
township of Colusa county, about 12 miles S. of Colusa.
Grand in Florida, a post-village of Lake co.,
on St. J. & Lake C. B.R.

on St. J. & Lake C. B.R.

Grand Island, in Nebroska, an important city, cap.
of Hall co., on Platte river, the St. J. & G. I., Un. Pac.,
and C. B. & Q. B.Bs., 164 m. W. by S. of Omaha. Here
are railroad, machine and car shoap, backing houses,
beet-sugar factories, &c. Seat of Nebraska Soldiers' and
Sailors' Home. Pop. (1897) shout 10,000.

Grand Island, in New York, an island in the Niagara river, about 4 m. above the Falls; crea, abt. 50 sq. m.

—A post-town of Krie co. Pop. (1897) about 1,180.

Grand Isle, in Louisiana, a post-office of Jefferson parish, on the island of Grand Terre.

Grand Isle, in Michigas, an island near the S. side of
Lake Superior; crea, about 105 sq. m. The famous Piofused Rocks are on the S.E. shore of Grand Isle Bay,
between Grand Isle and the mainland.

Grand Isle, in Vewsoat, an extreme N.W. co., border-

thered Rocks are on the S.E. shore of Grand Isle Bay, between Grand Isle and the mainland.

Grand Isle, in Vermond, an extreme N.W. co., bordering on New York and the Canadian province of Quebec; area, about 80 sq. m., consisting mostly of islands in Lake Champlain. Rivers. Richelleu river, and other amalier streams. Bergace, undusting; soil, fertile. Cop. North Hero. Pop. (1897) about 3,940.

—A post-town of the above co., on the island of South Hero, 50 m. N.W. of Montpeller. Pop. (1890) 800.

Grand Junetion, in Temessee, a post-village of Hardeman co., about 52 m. E. of Memphis.

Grand Juney, m. (Low.) See Jun.

Grand Lake, in Arkansa, a post-village of Chicot co., on the Mississippi river, about 25 m. S. of Columbis.

Grand Lake, in Mains, is situated on the E. border of the State, between Arocstock and Washington coe, and New Brunswick, communicating with Passama-quoddy Bay by the St. Croix river. It covers an area of about 60 sq. m.

and New Britiswick, communicating with a secondary douldy Bay by the St. Croix river. It covers an area of about 60 sq. m.

Grand Leedge, in Michiges, a thriving town of Eaton co., on Grand river and D., L. & N. R.R., 12 m. W. of Lansing. Pop. (1887) about 2,950.

Grand'ly, adc. In an elevated, grand, or lofty manner; sublimely; nobly; splendidly; magnificently.

Grand Mannan', or Menan, in Moise, an island off the S.E. coast of Washington co; area, about 100 sq. m.

Grand Mannah, in Wisconsis, a P. O. of Adams co.

Grand-mans'ter, m. (Hist.) This name was applied, during the Middle Ages, to the chiefs of the various dominant orders of knighthood—as the Templars and the Hospitallers, the latter of whom were later termed the Knights of Malta. The grand-master was, in a sort of way, the sovereign for life of the order which he commanded, and his word was law in all matters, whether concerning life or death.—During the days of the ancient monarchy in France there was an officer termed the Grand-master of France, who was chief of all the officers of the household; and later, during the empire, there

were grand-masters of the universities; but the term

has, in the present day, become obsolete.
Grand Mead'ew, in lowa, a township of Clayton co.
Grand Mead'ow, in Minnesota, a post-village of

Grand'mother, s. The mother of one's father or

Grand Mound, in Iowa, a post-town of Clinton co. Grand Mound, in Washington, a post-village of Thur-son co., about 13 m. 8.8.W. of Olympia. Grand'-mephew (-acf/ss), s. A brother's or sister's

grandson.ess, s. State of being grand; grandeur; greatness with beauty; magnificence.
Grand'-miece, s. A brother's or sister's grand-

daughte

Grand Port'age, in Missecota, a post-village of Lake

Grand Pral'rie, in Ohio, a village and township of Marion co.; pop. of township about 448.

Grand Pral'rie, in Washington, a village of Lewis co., about 16 m. S. of Claquato.

Grand Rap'ids, in Illinois, a township of La Salle co.

Grand Rapids, in Illinois, a township of La Salle co.

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Grand Rapids, in Illinois, a township of La Salle co.

Grand Rapids, in Salle co., on Grand river at head of navigation; has 8 lines of railroad, more than 60 furniture factories, extensive flouring mills and other industries. Near by are large deposits of gypsum, from which calcined plaster is made. Here are located the Michigan Soldier's Home and the State Masonic Home. G. B. is a large distributing trade center, and a typical Western city of the most progressive class. Pop. (1894) 79,424; (1897) about 86,000.

Grand Rapids, in Nebrasia, a post-village of Holt co., about 35 m. N.W. of O'Neill.

Grand Rapids, in Wisconsia, a city, the cap of Western Marion Marion and Rapids, in Wisconsia, a city, the cap of Western Marion.

Pop. (1890) 572.

Gramd Empidis, in Wisconsin, a city, the cap. of Wood co., on Wisconsin river and the C., M. & St. P. R.R., opposite Centralia. Has flour and wood-pulp mills, furniture factories, &c. Pop. (1896) 2,043.

Gramd Eiver, a river in Colorado, rises on the W. alogs of the Rocky Mountains in Summit county, and flows S.W. into Utah, where it receives the name of Colorado river.

sloge of the Rocky Mountains in Summit county, and flows S.W. into Utah, where it receives the name of Colorado river.

Gramd River, in Iossa, a township of Adair co.

—A post-township of Decatur co.

—A township of Madison co.

—A township of Wayne co.

Grand River, in Louisiana, takes its rise in Atchafalya Bayou, and flowing a general S.E. and S. course, enters Lake Chetimaches near its S.E. extremity.

Grand River, in Michigon, formed by the confluence of numerous amaller streams in Jackson co., and after traversing Raton, Ingham, Ions, and Kent cos., enters Lake Michigan from Ottawa co. Lossyth, about 270 m.—Grand Rapida, about 40 m. above its mouth, is caused by a stratum of limestone rocks, having a fall of 18 ft. in about 1½ m., affording abundant water-power.

Grand River, in Missouri: (1) Formed by the junction of the E. and W. forks in Livingston co., and flowing a tortuous S.E. course between Carroll and Chariton counties, enters the Missouri river near Brusswick.—(2) Another rises in Cass co., and flowing a general S.E. and E. course through Henry co., enters the base river from Benton co.

and a course through Henry co., enters the bage river from Benton co.

Grand Edwer, in Ohio, traverses Trumbull and Ashtabula cos., and enters Lake Eric from Lake co.

Grand'ronde, in Oregon, a P. O. of Yamhill co.

Grand'sire, s. A grandfather; frequently used in the sonse of any ancestor.

"The grandeire skilled in gestic lore."—Goldentib.

the sonse of any ancestor.

"The grander's stilled in gestle lore."—Goldentile.

Grand'son, n. The son of a son or daughter.

Grand Springs, in Wisconsin, a village of Dane co.

Grand Springs, in Missouri, a village of Dane co.

Grand Tow'er, in Hissot, a post-village of Jackson co.

Grand Trav'erse, in Missot, a post-village of Jackson co.

Grand Trav'erse, in Missot, a post-village of Jackson co.

Traverse City. Pop. (1804) 17,514.

—A post-village of the above county, at the S. extremity of Grand Traverse Bay, abt. 125 m. N. of Grand Repids.

Grand Traverse Bay, abt. 125 m. N. of Grand Repids.

Grand Traverse End in Misson, a post-village and township of Eigar co., about 12 m. S.W. of Paris.

Grand View, in Idiana, a post-town of Spencer co.

Pop. (1890) 604.

Grand View, in Iouca, a post-village and township of Lious co., about 8 m. N. of Wapello.

Grand View, in Iouca, a post-village and township of Louisa co., about 8 m. N. of Wapello.

Grand View, in Iouca, a post-township of Washington co.

Grand View, in Texas a post-office of Johnson co.

ington co.

Grand View, in Texas, a post-office of Johnson co.

Grand ville, or Gran ville, in Illinois, a villago

Grand'ville, or Gran'ville, in Illinois, a village of Jasper co.
Grandville, in Michigan, a post-village of Kent co., on Grand River, about 8 m. below Grand Rapids City.
Grand'ville, Jaan Ionacs Istodas Grand, a French artist and caricaturist, B. at Nancy, 1803; remarkable for depth and delicacy of observation and criticism, for his ingenious turn of thought, and accuracy in portraiture. G. has produced during twenty years a large number of inimitable sketches, the best of which are Les Méta-

oer of minimators sections, the observed or which are Let Metamorphoses du jour, and Les Animaux parlants. D. 1847.

Granie, Grant, or Quade, a town and seaport of Arabia. on a bay of the same name, at the N.W. extremity of the Persian Gulf; Lat. 29° 28' N. Lon. about 48° B.; pop. about 9,000.

Grange, (grānj.) n. [Fr., a barn; L. Lat. granea, from

Lat. gramme, a grain; Sp. gramja, a farm-house.] A barn; a granary; a place for storing grain,—A farm-house, with all out-buildings, &c. - A branch of the order of the Pairons of Husbandry. See HUSBANDEY, PATRONS OF; FARMERS' ALLIANCE.

—A branch of the order of the Patrons of Husbandry. See Husbandry, Parsons or; Farmers' Allianck.

Gramge' mouth of the Carron, in the Frith of Forth, 11 m.

S.E. of Stirling. Pop. (1885) 2,659.

Gramger (grds'jer), a. A farm-bailiff; a land-steward.

Gramger, in New York, a post-town of Allegany co., about 5 m. S.E. by S. of Portage. An adjoining village is called East Granger. Pop. (1890) 864.

Gramger, in Osto, a post-township of Medina co.

Gramger, in Coto, a post-township of Medina co.

Gramger, in Osto, a post-township of Medina co.

Gramger, or Giralin'ger, in Temessee, a N.E. co.; crea, about 300 sq. m. Bisers. Clinch and Houston rivers. Surface, elevated, in some parts mountainous, Clinch Mountain traversing the co.; soil, generally fertile. Mis. Iron ore in abundance. County-seal, Butledge. Pop. (1890) 13,196.

Gram'serv'lile, in Georgia, a post-village of Macon co., about 90 m. S.W. of Milledgeville.

Gram'seus, a river of Bithynia, famous for a battle fought on its banks between the troops of Alexander the Great and those of Darius, 334 s. c., when 600,000 Persians were defeated by \$30 00 Mesodonius or desired and those of Darius, 334 s. c., when 600,000 Persians were defeated by \$30 00 Mesodonius.

tought on 12 banks between the troops of Alexander the Great and those of Darius, 334 s. c., when 600,000 Per sians were defeated by 30,000 Macedoniaus.

Gramiferous, a. [From Lat.grams, grain, and ferre to bear.] Seed-beuring, like grain.

Gram'iform, a. [Fr. gramforme.] Resembling grain.

Gram'iform, a. [Fr. gram; orme:]
of corn in form.
Gramite, (grdn'ii.) n. [Fr. gramit, gramite; It. gramito;
Sp. gramite, from Lat. gramatus, having many grains,
from grams, a grain.] (Geol.) A kind of rock, so named
from its gramular structure. The typical G is a crystalline aggregate of the three minerals, quarts, feldspar,
and mics, with no appearance of layers in the arrangement of the mica or other ingredients. The proportions
of the three components vary indefinitely, with this
limitation, that the feldspar is always an essential ingredient, and never forms less than a third, rarely less
than a half of the mass, and generally a still larger proportion. Sometimes the mica, sometimes the quarts becomes so minute as to be scarcely perceptible. The mica portion. Sometimes the mica, sometimes the quartz becomes so minute as to be scarcely perceptible. The mica is in scales, white, black, or brownish, and may be separated into thinner scales with the point of a knife. The quartz is usually grayish-white, and without any appearance of cleavage. The feldspar is whitish or flesh-colored, and shows a flat, polished, cleavage-surface in one or two directions. Some granites are very close and fine-grained, others largely and coarsely crystalline. The colors of the rock are graving flesh-colored or white colors of the rock are graylah, flesh-colored, or white varying with the color of the constituent minerals. Porphyritic G. (Fig. 1188) has the feldspar distributed in dis



Fig. 1188. - PORPHYRITIC GRANITE. (Land's End, Cornwall.)

tinct crystals. Syenitic G., or syenite, contains horn-blende in place of mica. Albitic G. is when the feldspar is albite or sods feldspar, which is usually white, the common or potash feldspar having a more grayish or reddish color. Graphic G., or pegmatite (Fig. 1189),

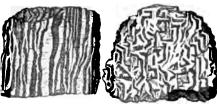


Fig. 1189. - GRAPHIC GRANITE. 1, Section parallel to the lamine: 2, Section transverse to the lamine.

contains but little mica, and the quartz is distributed through the feldspar in shapes that give the surface the appearance of being covered with letters of an Oriental language. G. is one of the most valuable of buildingstones. The hard, close-grained varieties are the most durable. It should be pure from pyrites or any ore of iron. By examining the rock in its native beds, good evidence can be obtained as to its durability. The more feldspathic are less enduring than the quartzoes, and the syenitic or hornblendic variety is the most durable. (See SYRMTE.) G. is capable of sustaining an immense (See Strairtz.) G. is capable of sustaining an immense pressure, which makes it peculiarly valuable for large works or buildings. Experiment has demonstrated that a weight of 24,556 lbs. is required to crush a half-inch cube of the best stone. G. abounds in New England.

Excellent G. is quarried in Maine, Virginia, and Hew Hampshire, but the most celebrated quarries are in Ma-sachusetts. The Quincy G. is properly a syenits. G. is detached in blocks of any length by drilling holes every few inches in the line of desired fracture, and driving in wedges of iron between steel cheeks, or half-round pieces fitting the sides of the hole. After removal the rock hardens anywhat and is less such than pieces litting the sides of the hole. After removal the rock hardens somewhat, and is less easily cut than when first taken from the quarry. G. is abundant in B. Carolina and Georgia; but much of it, as well as that of some parts of California and Auverges in France, is in a singular state of decomposition, in many places heing easily removed the decomposition. In France, is in a singular state of decomposition, in many places being easily penetrated with a pick. In the south this change has been referred to the action of sulphurous acid vapors, supposed to be produced by the decomposition of pyrites. Dolomieu called it the mainstaid of granite, and referred it to the action of carbaide dis granite, and referred it to the action of carbainstances have decayed, but the quartx retains its form and place. The decomposition of the feldspar of some varieties of G. produces the kaolin used in the mannfacture of porcelain. When G. decomposes readily, it passes into a good soil, not naturally rich, but capable of becoming so by the addition of organic matter. G. is widely distributed, many large tracts being entirely made up of it, and in many places it rises into lofty and picturesque peaks, forming the most magnificent scenery in the world.

in the world.

Gram'ite, in Colifornia, a township of Sacramento co.

Gram'ite, in Colorado, a post-village of Chaffee co.

Gram'ite, in Illinois, a post-village of Madison co.,
about 20 m. N. of St. Louis, Mo.

about 20 m. N. of St. Louis, Mo.
Gram'ite, in Montana, a post-town of Deer Lodge co.
Pop. (1890) 1,310.
Gram'ite Creek, in Oregon, enters the N. fork of
Johu Day river, in Umatilla co.
Gram'ite Hill, in Pennsylvenia, a P. O. of Adams co.
Gram'iteville, in California, a post-village of Nevada

Gran'iteville, in Massachusetts, a post-village of Mid-

dieser co. Ille, in South Carolina, a post-village of Aiken co. Pop. (1890) 1,791.

Gram'tie, Gramit'icall, a. Pertaining to, or like granite; having the nature of granite; as, gramit texture.—Consisting of granite; as, gramit recks.

Gramitie Bocks, n. pl. (Geol.) A name applied to those igneous rocks which partake of the character and appearance of granite. They are highly crystalline, and their component crystals are never rounded or waterworn; they present no traces of deposition or stratiscation; they occur in the earth's crust, as mountainmasses and velus, bursting through and displacing the sedimentary rocks; and they indurate, and otherwise alter (as all heated masses do) the strata with which they come in contact. From these circumstances they are held to be of igneous origin; and as far as geolsetumentary rocas; and they indurate, and other was alter (as all heated masses do) the strata with which they come in contact. From these circumstances they are held to be of igneous origin; and as far as goologists have been able to discover, they are the most deeply seated of all rocks, forming, as it were, the floor of foundation for all the superincumbent formations. As the earliest of the igneous rocks, they are generally found associated with primary and transition strats, tilting them up on their edges, bursting through them in dykes and veins, and variously altering their positions and mineral characters. G. R. form the principal mass of the most extensive mountain-ranges in the world. The Andes, the Alps, the Pyrenees, the Ural and Himalayan ranges, the Alyssinian and other ranges in N. Africa, the mountains of Cumberland, Devon, and Corwall, in England, the Grampians in Scotland, the Wicklow mountains in Ireland, and the Dofresdd in Scandinavia, are all more or less composed of granitic rocks, or of primary strata, thrown up and altered in mineral character by these granitic intrusions.

Gramitification. In Eng. granite, and Lat. facer, to make.] Art or process of being converted into granite.

Gramitime, n. [Eng. granite, and Gr. cides, form.] Resembling granite in structure and shape.

Gramitime, n. [From Eng. granite, and Gr. cides, form.] Resembling granite in granular appearance; st. granitations, n. pl. [Lat. granusa, a grain, and core, I cat.] (2001.) The name given by Temminck to an order of brind, including the Insecsorial species which feed on grains; other animals with a similar diet are termed granitorous.

granivorous. Graniv'orous, a. See Granivore.

Gram'nam, Gram'ny, n. A vulgarised form of grandmother, or grandam.

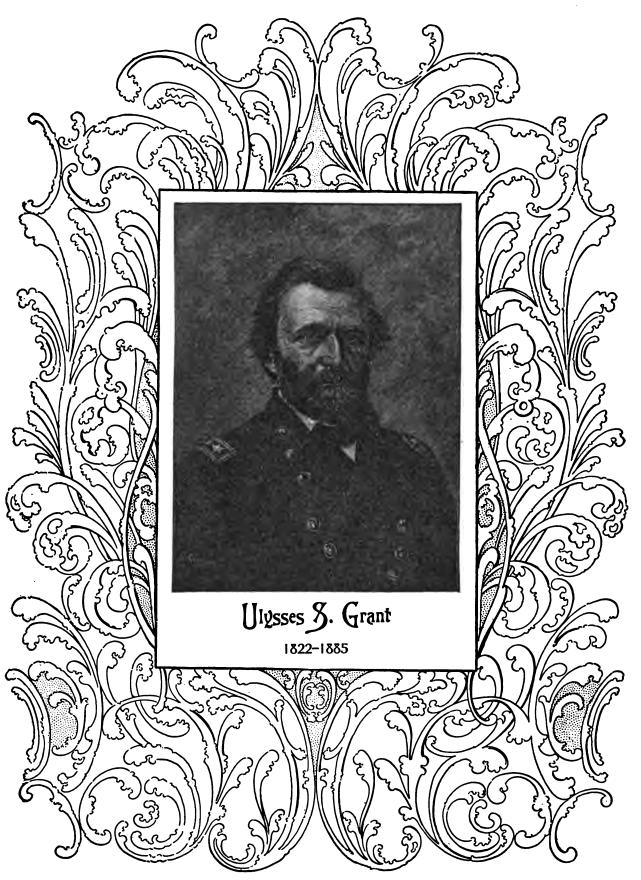
oss told me, Tim take warning." -" Oft my kind gro Gramt, v. a. [L. Lat. grantare, or greantare, to promise truly or on oath—gratus, gratum, acceptable, pleasing, agreeable.] To transfer, as the title of a thing, to an other, for a good or valuable consideration; to convey by deed or writing; to cede.
"Grant me the place of this threshing-floor." — 1 Chron. xxi. 22.

To bestow or confer on, without compensation, in answer to request.

of an honest fame, or gro To admit as true what is not proved; to allow; to yield; to concede; as, we may take it for granted that his as sertion is true.

Act of granting; a bestowing or conferring; con

"This grant destroys all you have urged before." -A gift; a boon; a present; an allowance; the thing granted or bestowed; as, a grant of money.



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(Zaw.) A conveyance in writing of such things as cannot pass or be transferred by word only; the thing conveyed by deed or patent; as, a grant of land, a grant

conveyed by deed or patent; as, a grant of land, a grant of precioence.

\*\*Practic grant\*, the mode and act of creating a title in an individual to lands which had previously belonged to the various States individually, have been to a great extent conveyed by deeds or patents issued in virtue of general law; but many specific grants have also been made, and were the usual method of transfer during the colonial period.

Grant\*\*, a 1822. He was one of the most voluminous of writers, and a list of his works would fill a contract of the colonial period.

Grant\*\*, a 1822. He was one of the most voluminous of writers, and a list of his works would fill a contract of the deed of the light of the state of the deed of the light of the l

for another round! With the first dawn the battle was renewed by a tremendous but valu assault upon Confederate lines. Gen. Lee, nevertheless, fearing might get between him and Richmond, cutting off a tremendous but vain assault upon the renewed by a tremenous but vali assault upon the Confederate lines. Gen. Lee, nevertheless, fearing G. might get between him and Richmond, cutting off his supplies, decided to retire, and G. succeeded in crossing the North Anna, and reached the famous banks of the Chickahominy. Finding the intrenchments of the enemy in his front too formidable to be carried by direct assault, G. moved his troops to join Gen. Butler at Bermuda Hundred. The performance of this movement, in the presence of Lee's army, who at many points were but a few rods from hin, is perhaps once of the most brilliant pages of Gen. G's ullitary career. Slowly wore away long months of expectation on the part of an impatient people. Sherithan was achieving glory in the Shenandosh Valley: Thomas was sweeping Tenuessee clear of invaders; Sherman was pressing on his matchless march through the Confederate States; but G. was oquietly settled down behind Petersburg that he seemed creardless of his personal honors. Impenetrable to jeal-ousy, he had but one aim, one thought—the grasping of Richmond; but the time was not yet come. With the coming of the spring of 1865, Lee, whose position and resources were quite exhausted by the self-possession and strategy of the Union commander-in-chief, now determined to assume the offensive, and on the night of March 27, 1865, he massed three divisions of his troops in front of Fort Steadman, and on G's right, and by a sudden rush at daybreak on the following merning, succeeded in surprising and capturing that important position. Before noon of the same day, however, it was retaken by the Union troops, with all its guns and 1,800

Confederate prisoners. At this time a battle, which continued until evening, was raging at Hatcher's Run. Three corps were massed under Gen. Sheridan below Petersburg, and on Sunday morning, April 2d, flanked the Confederates at Big Five Forks, capturing their interactions. Prantfarm, (grant'am.) a parish of Niagara district, University of the Union commander of the confederate states in th



Fig. 1190. - GEN. ULYSSES S. GRANT.

G.'s direction, then commenced along the whole line, and the assault was so successful that on the same night his forces held the Confederate intrenchments from the and the assum was so successful that on the same high is forces held the Confederate intrenchments from the Appomattox, above Petersburg, to the river below. At three o'clock that afternoon Gen. Lee telegraphed to Jefferson Davis that he had been driven from his intrenchments, and that Petersburg and Richmond must be abandoned, which operation was performed that night; and on the next day, April 3, 1886, the National army entered Petersburg, and Gen. Weitzel occupied Richmond. By rapid movements, Gen. G. cutting off Lee's retreat to Lynchburg and Danville, came up with him at Appomattox Court-house, and demanded his immediate surrender. The two chiefs met and arranged the details, and on Sunday, April 9, the Army of Northern Virginia capitulated. The whole of Gen. Lee's army, officers and men, were paroled, with permission at once to return to their homes. The former were granted the field-officers one horse. All other property belonging to the Confederate govt, within the department was surrendered to the U States. Gen. Johnston's surrender to Gen. Sherman, on the same terms as ment was surrendered to the U. States. Gen. Jonnaton's surrender to Gen. Shorman, on the same terms as those accorded to Gen. Lee, speedily followed. In 1866 Gen. G. was promoted to the rank of General, that honor being created specially for him. In Aug., 1867, on the suspension of Mr. Stanton by President Johnson, Gen. G. consented to fill the office of Secretary of War on the suspension of Mr. Stanton by President Johnson, Gen. G. consented to fill the office of Secretary of War ad interim, but the Senate having refused to approve the suspension, Gen. G., Jan. 13, 1868, surrendered the office to Mr. Stanton. On June 20, 1868, Gen. G. was unanimously nominated by the Republicans as a candidata, and elected the following November President of the U. S. In Nov. 1872. Gen. G. was re-elected to the Presidency, defeating Horace Greeley. After his second term of service, in 1877, G. left the U. S. to travel abroad. Upon his arrival in England he was very hospitably received and entertained, the right of citizenship of London and other towns being conferred on him. Completing the tour of the world, he returned in 1879. By Special Act of Congress, March 3d, 1885, G. was placed upon the retired list of the Army, with the rank and pay of General. He D. at Mount McGregor, near Saratoga, N. Y., July 23d, 1885, after a lingering and paintoga, N. Y., July 23d, 1885, after a lingering and paintoga, N. Y., July 23d, 1885, after a lingering and paintoga, N. Y., July 23d, 1885, after a lingering and paintoga, N. St., 1885. He left for publication his personal memoirs, which were issued shortly after his death.

Grant, in Arkansas, a S. central co.; area, 617 sq "nilea. It is intersected by Saline river and Hurricane creek.

BFREE, in Arkensea, a c. central co.; area, or a mice, It is intersected by Saline river and Hurricane-reck. Surface, undulating, extensively covered with forests; soil, fertile. Cap. Sheridan. Pop. (1890) 7,786.

Gramt, in Indiana, a N. E. co.; area, 420 sq. miles. It is intersected by the Mississinewa river. Surface, level; soil, fertile. Cap. Marion. Pop. (1897) about 45,000

Gramt, in Kansaa, a S. W. co.; area, 576 sq. miles. It is watered by Cimarton river, its N. fork, and Bear creek. Surface, nearly all prarie, soil being a black loam. Cap. Ulysses. Pop. (1895) 532.

Gramt, in Kensacky, a N. co.; area, 280 sq. miles. It is drained by Eagle creek. The surface is undulating and extensively covered with forest; soil, fertile. Cap. Williamstown. Pop. (1890) 12,671.

Gramt'able, a. That may be conveyed or granted.

"The office of the bishop's chanceller was grantedle for lite."

Apidia.

wide.

Grantor', n. (Law.) The person who makes a grant; one who conveys lands, rents, &c.

Grant River, in Wisconsin, enters the Mississippi River from Grant co.

Grants burg, in Illinois, a post-office of Johnson co.

Grants burg, in Indiana, a post-office of Crawford co.

Grants burg, in Wisconsin, a post-village, cap. of Rurnett co.

Grant's Lick, in Kentucky, a post-village of Camp-

Grant's Mills, in New York, a small village of Dela-

Grant's Mills, in New 2013, ware county.
Grants'ville, in Maryland, a post-village of Garrett co. about 25 miles N. W. of Cumberland.
Grantsville, in Missowri, a village of Linn co.
Grantsville, in Utah, a post-village of Toosle co, about 35 n. W. of Salt Lake City.
Grants'ville, in West Virginia, a post-village, cap. of Calboun co.

Grantz ville, in West Virginia, a post-village, cap. of Calhoun co.
Grant'ville, in Georgia, a post-village of Coweta co., about 52 m. 8.W. of Atlanta.
Grant'ville, in Kansas, a post-office of Jefferson co.
Grant'ville, in Massachusetts, a post-village of Norfolk co., abt. 13 m. 8.W. of Boston.
Grant'ville, in Pennsylvania, a P. O. of Dauphin co.
Grant'ville, in Pennsylvania, a P. O. of Dauphin co.
Grant'ular, Grant'ulary, a. [From Lat. granum.]
Consisting of grains; recembling grains; as, granulary bodies, a granular substance.
Grant'ularty, adv. In a granular manner.
Grant'ularte, v. a. [Fr. granular, from Lat. granum.]
To form into grains or small masses; as, to granulate gunpowder.

gunpowder. aise into small asperities; to make rough on the

"The gullet . . . as it were, granulated with a multitude of glandules." -- Ray. v. n. To collect or to be formed into grains; as, beet-

-e.w. To contect or to be formed into grains; as, beerroot granulates into sugar.

Gran'ulate, Gran'ulated, a. Consisting of, or
having the form of, grains.

Possessing numerous small asperities of surface.

Granulation, n. [Fr.] Act of forming into grains,

as sugar.

as sugar.

(Surg.) A term applied to the growth of fleshy fibre, which springs up in wounds and ulcers when the process of cure is being effected by the second intention. It is so called from the fact of the flesh springing up in separate particles, like grains or granules. Occasionally, when the system is out of order, and the part weak, the granulations spring up with remarkable rapidity; when such is the case they are called watery granulations, or proud fieth. This excessive and unhealthy activity is easily corrected by a weak solution of bluestone.

(Metall.) A process resorted to to obtain metals in a coarse state of division. The metal is melted in a crucible, and poured into water from the height of three

ciole, and poured into water from the neight of three or four feet.

Gramule, (gran'yūl.) m. [L. Lat. granulum, dim. of Lat. granum.] A little grain; a small compact particle.

Gramuliferous, a. [granula, and Lat. ferre, to bear.] Presenting granulations.

Gramuliform, a. [granula, and Lat. forma, shape.] (Min.) Having a granular structure.

Gramulatie, n. [granula, and Gr. lithes, stone.] (Geol.) A granular mixture of feldspar and quartz, as when the mica of granite is wanting.

Gram'ulous, a. [Fr. granuleux.] Full of little grains; formed of granular substances.

Gram'ucelle, Anyoune Persenvor, Cardinal de, a Spanish statesman, B. in Besançon, Aug. 20, 1517. Educated at Padua and Louvain, he carly displayed a rare intelligence, great powers of application, ambition, and the most polished manners. He got himself admitted canon of Lifes, was named bishop of Arras in 1514, and accompanies

his father to the Diets of Worms, and Ratisbon, and the his father to the Diets of Worms, and Ratisbon, and the Council of Trent. After the battle of Mühlberg he was charged with the arrangement of the conditions of peace with the Protestants, and at the same time captured Constance by surprise. On his father's death he succeeded him as councilior of state and chancellor of the empire. He negotiated the famous treaty of Passau, and, in 1653, the marriage of Don Philip (Philip II.) with Mary, queen of England. After the abdication of Charles V., G. remained with Philip in the Netherlands, adding him in establishing his authority. He negotiated the V., G. remained with Philip in the Netherlands, aiding him in establishing his authority. He negotiated the peace of Chateau-Cambresis, and remained in the Netherlands as minister of the regent Margaret, duchess of Parma. In this post he became, of course, the object of popular odium; and, aithough the king made him archishop of Malines, and the Pope created him a cardinal, he was recalled in 1564, and his place supplied by the Duke of Alva. The next five vears he nessed in retirehe was recalled in 1564, and his place supplied by the Duke of Alva. The next fire years he passed in retirement, in the pursuits of literature, and the society of learned men. In 1570, when Naples was threatened by the Turks, he was sent on a mission to Rome, and was soon after appointed viceroy of Naples. His administration, conducted with great ability, prudence, and integrity, ended in 1575, when he was recalled to Spain, and named president of the Supreme Council of Italy and Castile. He resigned the see of Malines on being appointed, in 1584, archbishop of Besançon; and D. at Madrid, Sept. 21, 1586. G. left an immense collection of the letters and despatches addressed to him. which of the letters and despatches addressed to him, which were saved from destruction by the Abbé Boisot, who spent several years in arranging them. They form one of the most important sources of the history of the 16th beautiful and have been sublished at the arrange of the century, and have been published at the expense of the Freuch govt., under the auspices of M. Guizot. Gram'ville, or Gernville, the name of a distinguished

Fram'ville, or Gerville, the name of a distinguished English family, the principal of whom are:—Sir Richard, a military and naval commander, killed in action under Sir Thomas Howard, 1591.—Sir Brvil, his grandson, a Boyalist, and commander of a troop of horse raised at his own expense; killed at the battle of Lansdowne, 1643.—Geology, Land Lansdowne, grandson of the latter, a poet and courtier, B. 1667, D. 1735.—See Gravville.

Gran'ville, a scaport-town of France, dept. of La Mauche, 12 in. N.W. of Avranches. Its principal trade is in the whale-, cod-, and other fisheries. Pop. 17,400. Gram'ville, in Illisois, a flourishing township of Jas-

per co. -A flourishing post-village and township of Putnan

Gram'ville, in *Indiana*, a post-village of Delaware co. on the Mississinewa River, abt. 65 m. N.E. of Indian apolis.

Gram'wille, in lowe, a post-village of Sioux co., on the C. & N. W. Railway, 11 miles E. of Orange City. Pop. (1895) 373

(1895) 373.

Gram'wille, in Massackusstts, a post-township of Hampden co. It contains Granville Center, East Granville, and West Granville. Pop. (1895) 1,061.

Gram'wille, in Miss., a township of Kittson co.

Gram'wille, in Miss.ari, a post-village of Monroe co.,

37 miles S. W. of Hannibal.

Gram'wille, in New York, a post-town and township of Washington co., about 68 miles N.N.E. of Albany. Pop. (1890) 4.716.

(1890) 4,716.

Gram ville, in North Carolina, a N. co. bordering on Gram'ville, in North Carolina, a. N. co. bordering on Virginia; area, about 600 sq. miles. Rivers. Tar river, and numerous smaller streams flowing into the Dan and Neuse rivers. Surface, hilly; soil, tertile. Cap. Oxford. Pop. (1890) 24,484.

Gram'ville, in Ohio, a post-village and township of Licking co., about 28 miles E.N.E. of the city of Columbus. Pop. of village (1890) 1,366.

—A township of Mercer co.

Gram'ville, in Pennsylvania, a township of Bradford

A post-town of Mifflin co.

Gram'ville, in Tennesse, a post-village of Jackson co., about 60 miles E. by N. of Nashville.

Gran'ville, in Vermont, a post-town and township of

Addison co.

Gram'ville, in Wisconsis, a post-township of Milwaukee co., about 10 miles N.N.W. of Milwaukee.

Gram'ville, in West Virgisia, a village of Monongahela co., on the Monongahela river, about 50 miles S.E. of Wheeling.

wheeling. Gran'ville Centre, in Pennsylvania, a post-office of Bradford co

Gran'ville Corners, in Massachusetts, a form

Gran'ville Corners, in Massachusetts, a former post-office of Hampden co.; now Granville.

Gran'ville Summit, in Pennylronia, a post-village of Bradford co., about 30 miles S. of Elmira, N. Y.

Grape, a. [Fr. grapps; It. grappo, a cluster of grapes; It. Lat. grappus; W. grab, a cluster, a grape.] The fruit of the vine, Vitus vinitera.—See VITIS.

(Mil.) See Grapp-shor.

(Farriery.) A mangy tumor or swelling, formed on the legs of a horse.

(Ordnames.) The cascabel of a cannon.

Grape leand, in Texas, a post-village of Houstou co., on the L and G. N. R. B.

Grape leans, a. Without grapes; as, a grapeless vine; wanting in the flavor and essential properties of grapes.

Grap'ery, n. A building or hot-house used for the rearing of grapes.

wanting in the navor and Grapeery, n. A building or hot-house uses a rearing of grapes.

Grape-shot, Grape, n. (Mil.) A kind of shot used against troops advancing in column at a short distance, or in naval warfare, to sweep the decks of an enemy's shin at close quarters. It consists of a number of balls are the form of a short cylinder. The

balls vary from half a pound to four pounds in weight, according to the calibre of the piece from which they are to be discharged. Grape-shot was formerly made by are to be discharged. Grape-shot was formerly made by putting the balls into a canvas bag, which was secured to an iron plate, equal in diameter to the calibre of the gun, and having a pin passing through its centre and the bag of shot, about which the balls were secured by cord. This gave the shot in some measure the appearance of a bunch of grapes; whence its name. The shot are now placed between a series of iron plates, the whole being kept together by pressure, exerted by a nut screwed on to the end of the bult which passes through them.

GRAP

Grape'-stone, n. The stone or seed contained in the grape.

"A fly, a grape-stone, or a hair can kill." — Prior.

Grape'-sugar, n. (Chem.) Same as Glucose, q. v. Grape'-vine, n. The vine which bears grapes. Grape'ville, in Pennsylvania, a post-office of Wes

moreland co.

Graphic, Graphical, (grafik, grafik-al.) a. graphique; Lat. graphicus; Gr. graphicus — graphio, to write.] Relating or belonging to the art of writing, de scribing, or delineating. — Inscribed; written. "Works not graphical, or composed of letters." — 1

well delineated: life-like

Describing with accuracy; well delineated; life-like as, a graphic account of a battle.

G. granite. (Min.) See Granite.

G. gold, and G. tellurium. (Min.) See STLVANITE.

Graphically, ade. With good delineation; in graphic or picturesque manner.

The civet out is graphi ally described by Castellus. 'ite, n. [Fr.; from Gr. graphein, to write. The plumbago, a mineral which occurs in prismasses with a transverse foliated structure, also Graph'ite. ». matic masses with a transverse follated structure, also granular and compact; lustre metallic. Color iron-black, steel-gray. Sp. gr. 20891. Comp. Pure carbon with a little oxide of iron mechanically mixed. It is found imbedded in granite, gneiss, mica schist, and crystalline limestone. It is sometimes the result of the alteration of coal by heat; and its common name black bad is inappropriate, there being no lead in its composition. It is infusible, very difficult of combustion, and when mixed with fire-clay is used for the manufacture of crucibles intended to withstand a high degree of heat. It undergoes no change in the air, and is used to cover articles of iron to prevent rust, and also for lubricating machinery. It is used also for the manufacture of pencils, either pure or ground up and mixed with clay. When matic mass chinery. It is used also for the manufacture of pencils, either pure or ground up and mixed with clay. When G, is burned in oxygen, it leaves a residue of yellow ash composed chiefly of oxide of iron. It is an abundant mineral, occurring at many places in this country. At Sturbridge, Mass, and at Ticonderoga, N. Y., it is found in large masses and extensively worked. The mines of Cumberland, England, are celebrated for its G. Graph'itoid, Graphitoid'al, a. [From graphite, and Gr. eidos, form.] Partaking of the qualities of, or resembling, graphite.
Graph'olite, n. [Gr. graphein, to write, and lithos, atone.] A kind of writing-slate.
Graphometer, (gra-fom'-ter, n. [Gr. graphein, and metron, measure.] (Math.) See Samteretz.
Graphometerlal, a. Relating to a graphometer; taken by a graphometer.

Graphomeet rical. a. Relating to a graphometer; taken by a graphometer.

Graph Octype, a. (Apt.) A comparatively recent mode of producing engravings for working as wood-cuts by letter-press, the principal value of which is that it needs no engraver to interpret the work of the artist. It is said that the cost of graphotypes is much less than that of wood-engravings. The process is thus described. A layer of prepared chalk is compressed by hydraulic pressure upon a plate until the surface of the chalk is as smooth as a sheet of paper. The artist draws on this surface with an ink which has the property of making the chalk which it touches harder than the remaining surface. A soft brush or a piece of velvet is now rubbed over the plate, from which it removes part of the uncouched chalk, leaving the inky portion in relief. When these lines are considered deep enough, the whole plate these lines are considered deep enough, the whole plate is saturated with a chemical solution, which hardens the chalk. From this, impressions may be taken direct,

the chalk. From this, impressions may be taken direct, or stereotypes or electrotypes may be obtained as soon as the stone is dry. Some graphotypes rival in beauty and delicacy the best engravings.

Frap'nel, Grap'ling, n. [Fr. grappin, from Ger. greejen, to gripe. See Gaire.] (Naut.) A sort of small anchor with four or five flukes or claws, commonly used to moor boats or small vessels; hence, by implication, anything devised to hold or fasten. Grap'nel.

Grap'ple, v. a. [Beig. grabelen; It. aggrapare, to seize, from Goth. graipan, to seize, to gripe; to lay fast hold on either with the hands or with hooks;—hence, to fasten on exmeetly and confidently.

"Virtue meets envy, to grapple with at last."

To seize; to contend or struggle in close fight, as -2. m. 10 selze; to contend or struggle in close ngnt, as wrestlers; — hence, to come to close contest with; as, to grapple with a difficulty.

-n. A seizing; close hug in contest; close fight; the wrestler's hold or embrace.

"In the grapple I boarded them." — Shakz.

(Naut.) A hook or fron instrument by which one ship may take fast hold of another.

Grap'pling, n. A laying fast hold of; also, that by which anything is seized and held fast.

Grap'pling-irons, n. pl. (Naut.) Iron instruments employed for grappling and taking fast hold of a vessel.

Grap'tolites, Graptoli'tides, n. [From Gr. graphen, to write, and lithos, stone.] (God.). These fossil bodies, which have been found throughout the Silurian

deposits, have been placed provisionally in the class Phypi. The axis of the polypary is sometimes straight, sometimes spiral, and serrated either on one or twe sides. They occur in argillaceous strata, and it has been conjectured on good grounds that they present a more generalised structure, nearer to the ideal type of Polyps, than the specially differentiated Sertularians and Pennatulids of the present day.

Graptolitie, a. Of the nature of graptolites; as, graptolitie slate.

graptolitic slate.

graptolitic slate.

Graps'y, a. Full of clusters of grapes; full of, or resembling, grapes.

Grawlitz, a mining town of Bohemia, 88 m. 8. of Prayer; pop. 6,400.

Grasp, v. a. [High Ger. gripsen, to seize, akin to GRIPE, y. v.] To catch; to seize; to lay hold of; to fasten on; to take possession of; to seize and hold by clasping, hugging, or embracing with the fingers or arms.

"I'll grasp my sceptre with my dying hand." — Dry To grasp at, to endeavor to seize; to catch at. "Bo endless and exorbitant are the de will grosp at all." — Swift.

Grasp, n. The gripe or selsure of the hand; possession; hold.—Reach of the arms;—hence, figuratively, the power of seizing; as, the crown was within his grasp.—Capacity of the intellect to comprehend a subject; as,

— Cipacity of the intellect to comprehend a subject; as, grasp of mind.

Grasp'able, a. That which may be grasped.

Grasp'er, n. One who grasps, seizes, catches, or holds.

Grasp'er, p. a. Seizing; catching; embracing; holding.

Greedy; avaricious; sordid; miserly; as, a grusping dis-

Greedy; avaricous; sordid; miserly; as, a grasping disposition.

Grasp'ingly, adv. In a grasping manner; eagerly;
greedily.

Grass, n.

[A. 8. gers, gers, gres; Low Ger., D., and Ger.
gras; Fris, gres; Swed. grils; Heb. geresh, product, from
garash, to drive or thrust out; Hind. ghas.] Herbage;
the plant which forms the food of cattle, horses, and
other besuts: green fodder. the plant wince forms the food of cartle, horses, and other besuts; green fodder.

(Bot.) One of the grasses or Graminacks, q. v.

Grass of Purnassus. (Bot.) See Parnassus.

-v. a. To over with grass or with turf; to furnish with

grass.

To bleach flax on the grass or ground.

-v. n. To breed grass; to be covered with grass; to become pasture. (B.)

Girass, in Indiana, a thriving township of Spencer

Gra

consideration of the control of the

flowers, heliotropes, mint, &c., which, from the mildness of the climate, are most successfully grown in the vicinity. Pop. 15,556.

Grass'-greem, a. Green with grass.—Green, like the color of grass; as, a grass-green ribbon.

—n. The hue or color of grass.

Grass'-grown, a. Covered or overgrown with grass; as, a grass-grown accourty ard.

Grass Hills, in Kestucky, a village of Carroll co.

Grass'hopper, n. (Zoi.) A genus of orthopterous insects, belouging to the family Gryplides, but distinguished from the true crickets by the roof-like position of the wing-covers, which in the crickets fold borizontally; while they are distinguished from the locusts by tally; while they are distinguished from the locusts by the inferior robustness of the body, and the length and slenderness of the legs and antenuss. There are several the inferior robustness of the body, and the length and slenderness of the legs and antennes. There are several species, of which the common meadow G. (Orcheimus vulgaris. Harris) may be taken for the type. It is generally of a green color, with a brown stripe on the top of the head and thorax; it measures at maturity about ½ of an in. to the end of the body: the hindermost thighs are smooth; there are 2 spines on the middle of the breast; and the antenne extend beyond the end of the bindlegs. The young G. comes from the egg without wings; passing through several moultings, the body increases in size and length, and little stump-like wings appear; the wings gradually become larger with each change of skin, the insect hopping about by means of its mucular hinge-thighs; after ceasing to grow, the wings are perfect organs of flight, and the G. enters upon its short life of activity, song, and reproduction:—the song by degrees becomes less, the body shrivels, the legs wither, the appetite cases, and in 3 or 4 weeks the whole number is dead. The larves remain in the earth all winter, and are hatched in the spring. They are veroccious as larva nume and nerfect inecest and in all whole number is dead. The larve remain in the earth all winter, and are hatched in the spring. They are voracious as larva, pupa, and perfect insect, and in all these stages they are equally devoured by fowls, especially by turkeys. During the day time the G. are silest, and conceal themselves among the leaves of trees; but at night they quit their lurking-places, and the joyou males begin the tell-tale call with which they enliven their silent mates. This proceeds from the friction of the taboret frames against each other when the wing-covers are opened and shut, and consists of two or three distinct notes. Almost exactly recembling articulated distinct notes, almost exactly resembling articulated sounds, and corresponding with the number of times that the wing-covers are opened and shut; and the notes are repeated, at intervals of a few minutes, for hour together. Though averse to the exercious of flight, and slow in their asrial excursions, particularly when the

weather is moist or cool, they are sometimes seen to fly to considerable distances. When roughly handled they bite sharply, and when flying they make a peculiar noise with their wings.

Grass'hopper, in Kansas, a township of Atchison co. Pop. (1896) 1,872.

Pop. (1885) 1,872.

Grass'hopper Falls, now Valley Falls, in Kassas, a post-village and township of Jefferson co., about 23 m. S. W. of Atchison. Pop. (1895) 1,172.

Grass'iness, a. [From grassy.] The condition of being covered with grass, or abounding in grass.

Grass Lake., in Michigan, a post-village of Jackson co., on a small lake of the same name, about 65 m. W. of Detroit. Pop. (1894) 647.

Grass Land, n. (Agric.) Under this name are included water-meadows, upland pastures, and artificial meadows. The first are briefly treated of under Irangarion. Upland pastures are portions of land on which the natural grasses grow spontaneously, varying in quantity and quality patters are portions of land on which the natural grasses grow spontaneously, varying in quantity and quality with the soil and situation. When a pasture is naturally rich, the only care required is to stock it judiclously, to move the cattle frequently from one spot to another, and to eradicate certain plants which are useless or noxious. The urine of the cattle is the manure which chiefly keeps up the fertility of grass-land. A poor, ard soil is not fitted for grass, nor one which is too wet from the abundance of springs and the want of outlet for the water. These defects can only be remedied by expensive improvements. When an arable field is sown with the seeds of grasses and other plants which give herbage for cattle, it is called an artificial meadow. Grass-Tanad, in W. Virginia, a P. O. of Harrison co. Grass-Lick, in West Virginia, a post-office of Jackson county.

Grams Lick, in wes ray....., county.

Grams'-oll, n. (Perfum.) A volatile oil of a light straw color, obtained by distillation from certain grasses in India, of the genus Andropogon. It is fragrant, pungent, and stimulating, and is used in perfumery and medicine. It belongs to the same class in chemistry as oil of lemons.

Grams'-plot, n. A lawn; a spot of garden-space covered with grass; as, "grass-plots bordered with flowers."

Temple.

Grass'-poly, n. (Bot.) See Lythrum.
Grass River, in New York, traverses St. Lawrence co., and enters the St. Lawrence River at St. Regis.

A village of Lawrence on Grass'-tree, s. (Bot.) See Xanthornema.
Grass Val'ley, in California, a post-town and township of Newada county, about 36 miles E. of Marysville.

nes'y, a. Covered or abounding with grass; as, "the nesy turf." (Milton.)—Green; greenish; resembling gram

Grass'y Creek, in Kentucky, a P. O. of Morgan co. Grass'y Creek, in North Carolina, enters the Roanoke river from Granville co.

-A post-office in Ashe co

—A township of Mitchell co.

Grass'y Fork, in Indiana, a township of Jackson

CO.

Grate, n. [It. grata; Lat. crates. See Crate.] A partition or frame-work, made with a succession of parallel or cross bars, having interstices; a kind of lattice-work used for protecting doors, windows, &c.; a grating.

"Out at a little grate his eyes he cast."—Dryden -The iron or steel frame and bars for holding coals used as fuel for heating apartments, &c.

"An eld-fashioned grate consumes coals, but gives no heat."

— e. d. To furnish with grates, as a house; to fasten with a lattice-work of cross-bars, as a cellar-cloister.

Grates, v. a. [Fr. gratier; L. Lat. graters, from Lat. rado, rader, to scratch, to rub.] To rub one thing roughly against another; to rub so as to produce a harsh or discordant sound; as, to grate the teeth.

"The grating shock of wrathful iron arms."—Baks.

To wear away in small particles, by rubbing with any-thing having a rough or granulated surface; as, to grate ginger.—To offend by anything harsh or venatious; to fret; to irritate; to mortify; as, a noise grating to the

roed lord, from Rome . . . gr s. s. To rub hard, so as to injure or offend; to offend

by importunity or oppression.
"What peer hath been suborn'd to grate on you?"—M

-To make a harsh sound by the attrition of rough bodies

-To make a harsh sound by the attrition of rough bodies; as, a grating wheel.

Grat'ed, a. Supplied or furnished with a grate or grating; as, a grated cell.

Grate'ful, a. [From Lat. gratus. See Grace.] Pleasing; acceptable; agreeable; gratifying; delightful; delicious; affording case, pleasure, or relief; as, a grateful beverage, grat/ul sleep.—Thankful; having a due sense of benefits; appreciative of kindness received; well disposed toward one by whom a favor has been conferred; willing to acknowledge and repay a boon or benefit; as, a grateful heart.

Grate'fully, adv. With a due sense of benefits or

a graviu near. **Grate fully**, adv. With a due sense of benefits or favors; in a manner that disposes to kindness, in return for favors; thankfully; in a grateful manner.

"The lover's toll she gravefully repaid." - Granville

Grate'fulmess, s. Gratitude; thankfulness; quality of being grateful.

—Quality of being agreeable or pleasant to the mind or to

Grat'er, s. The person who, or thing which grates; specifically, a utensil with a rough, granulated, or indented surface, for grating, or rubbing off small parti-

cles of a body or substance; as, "rough as nutmeggraters."—A. Hill.

Gra'tlam, (Augustus Gratianus,) emperor of Rome, eldets on of Valentinian I., by his first wife Severa, B. in Pannonia 359 A. D., was elected by his father to the rank of Augustus, 367. On the death of Valentinian, 375, the troops elevated G. to the throne, giving him at the same time as a colleague his half-brother Valentinian II. Gaul, Spain, and Britain fell to G.'s share; and as his brother was only four years old, G. is supposed by many authorities to have been the monarch de facto of the rest of the Western Empire, fixing his residence at Treviri (now Treves). During the first part of his reign, a fierce warfare was carried on against the tribes who possessed the Danubian provinces and Illyricum; and he was on the point of marching into Thrace, to assist a fierce warfare was carried on against the trues who possessed the Danubian provinces and Illyricum; and he was on the point of marching into Thrace, to assist his uncle Valens against the Goths, when he was suddenly called upon to defend his dominions against the Lentienses, a tribe of the Alemanni. After the invaders had been defeated, G. advanced towards the Eastern Empire, but while on the way he learned that his uncle Valens had been defeated and killed by the Goths near Adrianople, 378. The sovereignty of the Eastern Empire then devolved upon G., but feeling his inadequacy to the task of ruling the whole empire, he recalled Theodosius from Spain, and appointed him his colleague, chaste, and temperate; his understanding was well cultivated, although not strong, and his eloquence attractive; but his fondeness for frivolous amusements and unworthy associates excited the contempt of the army, so that when Maximus was proclaimed emperor by the legions in Britain, crowds of the disaffected flocked to his standard. G. was defeated by him near Paris, and afterwards fied to Lyons, where he was overtaken and killed, 383.

killed, 383.

Graticula'tiom, n. [Fr., from Lat. craticula.] The apportionment of a design into squares, for reducing it to smaller dimensions.

Gratiflea'tiom, n. [Fr., from Lat. gratificatio.] Act of pleasing or gratifying the mind, taste, or appetite; as, gratification of the palate. — That which affords or promotes ease, pleasure, or enjoyment; satisfaction; fruition: delight.

Raward: recompanes.

-Reward: recompense; honorarium.

Grat'ifled, p. a. Pleased; indulged or humored agree

"A palled appetite must be gratified with sauces."— Tatler Grat'ifler, n. One who, or that which, indulges or

gratifies. Girat'ify, v. a. [Fr. gratifier; Lat. gratificor—gratus, and facio, to make.] To oblige; to do a favor to; to give pleasure to; to indulge; to delight; to humor; to satisfy; to soothe; to afford gratification; as, to gratify one's taste or appetite.

"For who would die to gratify a foo? "- Dryde

To requite; to recompense; as, I gratified him for his

Grat'ing, n. [See GRATE.] A harsh or jarring sound or friction.
-A grate. See GRATE.
-pl. (Naut)

—A grate. See Gratz.

—pl. (Naul.) Open, intersticed covers, of lattice-work form, placed over a ship's hatchways.

Grat'ingly, adv. Harshly; offensively; in a manner to jar, fret, or irritate.

Graticla, (grat-te-o'la), n. (Bot.) The Hedge-byseop, a genus of plants, order Scrophulariaces, having a b-partite calyx, the upper lip of the corolla bifid, the lower trifid, only two stamens fertile, and the anthers pendulous. G. afficinalis, a European species, is extremely bitter, acts violently as a purgative, duretic, and emetic, and in overdoes is an acrid poison. It is administered in cases of worms, jaundice, dropsy, scrofula, mania, and venereal diseases: but requires to be used with caution. It was formerly so highly esteemed as a medicine, that the name of Gratia Dei (Gracy of God) was given to it, and for the same reasonit is known as a medicine, that the name of Gratia Dei (Grace of God) was given to it, and for the same reason it is known in France as Herbe as Pluser Homme (Poor Man's Herb). It is said to be the basis of the famous gout medicine called Eau medicinale.— G. Peruviana, a South-American species, and G. Virginica, a native of this country, have somewhat similar properties, which are supposed to depend upon a bitter resinous principle called Gratioline.

Gratiot, (gratheod.) in Michigan, a S. central co.; area, about 660 sq. m. Elever. Pine and Maple rivers, and Sait and Beaverdam creeks. Surface, undulating; soil, fertile. Cap. Ithaca. Pop. (1894) 28.770.

Gratiot, in Wiscomsin, a post-village and township of Lafayette co., on the Pekatonica river, about 38 miles E. N. k. of Galens.

Gratia, deb. [Lat., from gratia, favor.] Without

E. N. L. of Galena.

Gravita, adv. [Lat., from gratia, favor.] Without charge, fee, or recompense; freely; for nothing; gratuitously; as, advice gratis.

Gravita, in Georgia, a post-office of Walton co.

Gravita, in Ohio, a flourishing post-township of Proble

county.

Grat'itude, s. [Fr.; L. Lat. gratitudo—gratus, grate-ful, thankful.] Quality of being grateful; an emotion of the heart, excited by a favor or benefit received; a sentiment of kindness or good-will towards a benefactor;

"The gratitude of place-expectants is a lively sense of future favors."—Sir R. Welpole.

Gratitude, in New Jersey, a village of Sussex co.
Gratitude, in New Jersey, a village of Sussex co.
Gratity, Augusta Joseph Alphonse, a French theologian and orator, born at Lille, 1865. He studied nathematics; was admitted to the Ecole Polytechnique in 1825 entered the ecclesiastical profession; was appointed director of the College of Stanislas in 1841, and Almones

to the École Normale Supérieure in 1946. The publication of the third volume of the Histoire de l'École d'Aléxandrie, by M. Vacherot, then director of studies at the school, led to a discussion between them, which terminated in the resignation of M. Vacherot in 1851. The Abbé G. quitted the Normal School in 1851 in order to devote himself, with the Abbé Petetot, to the reconstruction of the Oratorians of the Immaculate Conception, and was appointed professor of evangelical morality at the Sorbonne, 1863. In addition to his Lettre et Répliques à M. Vacherot, G. published, in 1855-7, a course of philosophy in three parts, under the following titles:—De la Connaissance de Dieu, Logique, and De la Connaissance de l'Ame; La Filiasophie du Credo, in 1861; Les Sources, in 1861-2; Commentaire sur l'Evangile de Saint Matthieu, in 1863; Jésus Christ, Réponse d'M. Renan, and Les Sophistes et la Critique, in 1864. He was elected to the French Academ: In 1897. D. 1872.

was elected to the French Academ. In 1897. D. 1872.

Grat'tam, Henry, a distinguished Irish statesman and orator, B. in Dublin, 1750, graduated at Trinity Coll., and went to London to study and practise the law. In 1772 he was called to the bar in his native country, and three years after entered the Irish House of Commons, where his brilliant eloquence and energetic bearing soon raised him to distinction as a gifted speaker, and won for him the deep veneration of his countrymen. It was not, however, till 1780, that he made that celebrated motion and speech, that nearly intoxicated the Irish nation, and made his name a household-word. In that year, the British Parliament having attempted to frame laws for the sister country, to the humiliation of the Irish Parliament and Executive, G. moved the resolution, which the House immediately seconded, "That the King's most excellent Majesty, and the Irish House of which the House immediately seconded, "That the King's most excellent Majesty, and the Irish House of Lords, and Commons, are the only competent powers to make laws to govern Ireland." So enthusiastic was the national feeling on this occasion, that he was voted the sum of \$500,000. Of this, however, G. refused to accept more than \$250,000. On the union of the two crowns, at the opening of this century, G. took his seat in the Imperial Parliament, first for Malton, and afterwards for Dublin; but, like most of these great orators, the change from College Green to St. Stephen's seemed fatal alike to his eloquence, his prestige, and his power. G. was gentle in his manners, fervid and ornate in his eloquence, a discriminating statesman, an incorruptible patriot, and a most estimable man. D. 1820.

Great tam, in Michigan, a post-township of Kent county.

Gratu'itous, a. [Lat. gratuius, from gratia, favor.]
That which is done out of favor or kindness, without recompense or reward; free; voluntary; not demanded by justice; granted without claim, merit, or requirement; as, a gratuitous service.—Asserted or taken without proof; uncalled for by events or circumstances; adopted without substantial grounds or reason; as, a gratuitous assumption.
Gratu'itously, adv. Freely; voluntarily; without claim or merit; without an equivalent or compensation; without proof.
Gratu'itousmess, s. State or quality of being gratuitous.

Gratu'itousness, n. pure v. qualities, from tuitous.
Gratu'ity, n. [Fr. gratuiti: L. Lat. gratuitas, from Lat. gratus.] A free gift; a present; a donation; that which is given without a compensation or equivalent; something given in return for a favor; an acknowledgment; as, he dismissed him with a small gratuity.
Grat'ulate, v. a. [Lat. gratulor, gratulatus, from gratus.] To express joy or pleasure, as to a person on account of his success, or the reception of some good; to congratulate; to felicitate; to salute with declarations of delight.

I gratulate at least my native clime."—Drude

Grat'ulate, a. Deserving gratulation, joy, or pleasure.
Gratula'tion, s. [Lat. gratulatio.] A manifestation of joy; an address or expression of felicitation to a person, on account of some good received by him; congratulation.

"Our gratulations flow in streams unbounded."—Curey.

Grat'ulatory, a. [Sp. gratulatario.] Congratulatory; expressing felicitation.

expressing felicitation.

—n. An address expressive of joy or congratulation.

Giratts, a town of Austria, in Styris, on both sides of
the Mur, a tributary of the Drave, 89 m. 8. W. of Vienna;
Lat. 47° 4' N., Lon. 15° 26' E. Manuf. Cotton, woollen,
and silk fabrics, leather, iron, steel, and rosoglio. The
most striking edifices in the city see, a manuscleum
erected to the Emperor Ferdinand II., and the Johanneum, founded by the Archduke John in 1812, to encourage arts and manufa. in Styria.

Giratts in Kenlucks a post-office of Owen co.

noum, tounded by the Archduke John in 1812, to encourage arts and manufs. In Styria.

Gratz, in Kentucky, a post-office of Owen co.

Gratz, in Kentucky, a post-office of Owen co.

Gratz, or Gratz'rown, in Pensylvania, a post-village of Dauphin co., abt. 48 m. N. by E. of Harrisburg.

Graudems', a fortified town of Prussia, prov. of West Prussia, on the Vistula, 60 m. S.E. of Dantzig. Mansy.

Tobacco, carriages, beer, cotton and woollen cloths, and it has also a considerable trade in grain and other produce. Php. 14,062.

Graumlite, n. (Min.) Same as Tectiotre, q. v.

Grauwacke, grow-wake, m. (Geol.) See Graywacke.

Grawe, n final syllable in the names of certain places, from A. S. gräf, grove. It also denotes a ruler (Ger. graf, count, Du. graaf), and is chiefly used in composition, as landgrave, margrave, burggrave, &c.

Grave, v. a. [imp. Grayen; pn. grave; Swod. grafwa; Fr. graver; Sp. grabar; Gr. grapho, grave: allied to Ar. Lafar.] To carve or cut letters or figures, as on stone or other hard substance, with a chisel or edged tool; to engrave.

"Cornice with bossy sculptures graves."—Mileo.

-To carve; to form or shape by cutting with a chisel.

(\*Mus.\*) To render grave, as a tone or note.

-(Ger. griede, pl. grieben, the dregs of melted tallow or fat.]

(\*Nous.\*) To cleanse or bream a ship's bottom. and pay it over with hot pitch; for which purp drops of melted tallow or fat were formerly used

v. n. To carve; to inscribe or delineate on hard sub-stances; to practise the art of engraving.

Thou shalt make a plate of pure gold, and grove upon it.

Grave, n. [A. 8. graf; D. graf; Ger. grab; Dan. gras; Icel. grif, formed from A. 8. grafan, to dig, or its equivalents in the kindred tongues.] The ditch, pit, or excavated place in which a dead human body is deposited; a place of sepulture for the corpse of a human being; pulchre a tomb; a mausoleum; any place for in

a unimell'd, unceffin'd, and unknown." Figuratively, the end of life; death; destruction.

—Figuratively, the end of life; death; destruction.

"The paths of giery lead but to the grass."—Gray.

—pl. Granvas. The sediment or waste of melted tallow.

(Law.) The violation of a grave, by taking up the dead body or stealing the coffin or grave-clothes, is a misdemeanor at common law, and has been made the subject of statutory enactment in some of the U. States.

Grave, a. [Fr., Span, and Ital; Lat grave; allied to Sansk. gurs, heavy. The Lat is by change of letters for garvis.] Important; momentous; thoughtful; serious; weighty; — used in reference to character, influence, relations, &c.; as, a grave demeanor, a grave subject.

ject.
"Meet petent, grace, and reverend seigniers."—Shake.
—Solemn; staid; formal; sober; plain; sedate; not light, gay, showy, or tawdry; as, a grace color.
(Mus.) Low in pitch; not acute; deep.
Grace accesst. (Proc.) See Accessr.
Grawe Crecek, the former name of Mousne'ville, in
West Virginia, a city, the cap. of Marshall co., on the Ohlo
river, about 12 m. below Wheeling. The city is pleasantly
built upon a tongue of land about 1 m. in width, formed
by the junction of the Big and Little Grave creeks, and
was formerly divided into two distinct villages, which
were called Elizabethtown and Moundsville, the former
of which was the seat of justice. The latter received its were called Elizabethown and mondavine, the former
of which was the seat of justice. The latter received its
name from the Mammoth Mound in the vicinity, which
is one of the largest artificial mounds in the U.S., and the
settlement was finally incorporated under that name.
Girave'-clethes, n. pl. The clothes or dress in which
the dead are interred.

rave'-digger, s. One who digs graves for interring the dead.

the dead.

Grawe'dle, n. [From Lat. gravis, heavy.] (Med.) A sense of cold, and oppression in the head; catarrh; corysa.

Graw'el, n. [Fr. gravelle or gravele; Lat. gravele, a snull stone, gravelle, sand; probably corrupted from Lat. glarca, gravel.] The name given to aggregations of water-worn and rounded fragments of rocks, varying in size from a pea to a hen's egg. When harger, it is called shingles.—Small stones or fragments of stone, or very small pebbles, larger than particles of sand, but often mixed with them, and found in sabulous soils.

(Med.) See URINARY ORGARS, (DISEASES OF.)

—e. a. To cover or pave with gravel; as, to gravel a garden-walk.

den-walk

Gen-wars.
To stick in the sand;—hence, to clog; to embarrass; to check; to stop; to confuse; to puzzle.

"Mat, who was here a little gravell'd,
Toss'd up his nose, and would have cavill'd."—Prior

To hurt the foot of a horse, by gravel lodged under th

Grave'less, a. Wanting a grave; unburied. "My brave Egyptians all, . . . lie grav ass."—5habs

"My brave Egyptians all, . . . lie graveless."—Shahs.
Grav'el Hill, in New Jersey. See Blainstown.
Grav'el Hill, in Viryinia, a P. O. of Buckingham co.
Gravelimes, (grav-leen'.) a fortified seaport of France,
dep. Nord, at the mouth of the Aa, 12 m. S. W. of Dunkerque. Manf. Liquors, with a considerable trade in
fish and timber. Under Louis XIV. it was fortified by
Vauban, but the harbor has become useless through
neglect. Pop. 7,000
Grav'elimess, s. State or condition of being gravely.
Grav'elly, a. Full of gravel; abounding with gravel;
consisting of gravel; as, a gravelly soil.
Grav'elly Landing, in New Jersey. See Pour ReFuells.

Gravel-pit, n. A pit from which gravel is dug. Gravel Eum Mills, in Maryland, a post-office of Baltimore co.

maumore or continuous of the c

pared or covered with gravel.

Grave'ly, a. Soberly; seriously; thoughtfully; in a
grave, staid, solemn manner; without levity or mirth.

Gravemen'se, adv. [lt.] (Mus.) With a depressed

tone: solemnly. brawe'mems, s. Quality of being grave; seriousness; staidness; sobriety of behavior; solemnity; gravity of

manners or discourse.

Grave'olence, s. Rancidity; a strong, offensiv.

smell. (R.)
Grave'olent, a. Strong-scented; having an object tionable smell

tionable smell.

Graw'er, s. One who carves or engraves; one who inscribes letters or designs on stone, wood, &c.; a sculptor.

—An engraver's burin, or square piece of steel fixed in a handle, and bevelled diagonally at the end.—An instrument used for turning iron, after it has been roughed out by the "heel-tool."

Graw'ery, s. Process or operation of graving or carving.

Graves, in Kansaa, a post-office of Cloud co.
Graves, in Kansaa, a post-office of Cloud co.
Graves, in Kansaa, a post-office of Cloud co.
Graves, in Kansaa, a kn. co., bordering on Tennessee; area, about 550 sq. m. Ricera. Mayfield screek and other small streams. Burface, generally level; soil, generally productive. Cop. Mayfield. Pop. 28,534.
Gravesemd', a town and scaport of Kent, England, on the right bank of the Thames, 33 m. W.N.W. of Canterbury and 24 m. E.S.E. of London. Massay. Rope-making and ship-building.
Gravesemd', in New York, formerly a post-township of Kings co., bordering on the Atlantic Ocean; since Jan. 1, 1897, a part of Greater New Tork.
Graves' Ferry, in Kentacky a village of Russell co.
Graves' Moun'taim, in Georgie, a conical peak of Lincoln co.
Grave'-atome, s. A stone laid over a grave, or erected

Grave'-stome, n. A stone laid over a grave, or erected

Lincoln co.

Grave'-stome, n. A stone laid over a grave, or erected near it, as a monument.

Graves'ville, in New Perk, a post-village of Herkimer co., abt. 8 m. W.N.W. of Albany.

Gravesville, in Wisconsin, a post-village of Calumet co., abt. 7 m. N. by W. of Miwankee.

Grave'-yard, n. An inclosure for the interment of the dead; a church-yard; a cemetery.

Grav'ie, a. Belonging to, or inducing, gravitation; as, gravic attraction. (a.)

Grav'id, a. [Lat. gravidus, from gravis, heavy.] Pregnant; being with child; enceinte.

Grav'igraede, n. [Lat. gravid, heavy, and gradus, step.] (Zoil.) The name applied by Blainville to heavy-paced mammalia, as the elephant, &c.

Gravime'eter, n. [Lat. gravid, heavy, and Gr. metron, a measure.] (Phys.) An instrument for ascertaining the specific gravity of both liquid and solid bodies.

Gravima, (gra-ve'na.) a manufacturing town in the 8. of Italy, on a stream of the same name, in the prov. of Bari, 37 m. 8.W. of Bari city.

Gravima, (gra-ve'na.) in Alaska, a harbor on the 8. cosst, Lat 60° 44 N., Lon. 145° 46' W.

Grav'ing, n. Act of cutting letters or figures on hard substances.—That which is graved; carred work.—Impression; imprint; sensible effect, as upon the mind or feelings.

(Nest.) The act of breaming a ship's bottom, and paying it over with pitch.

Grav'ing-doek, n. A dry dock in which ships are

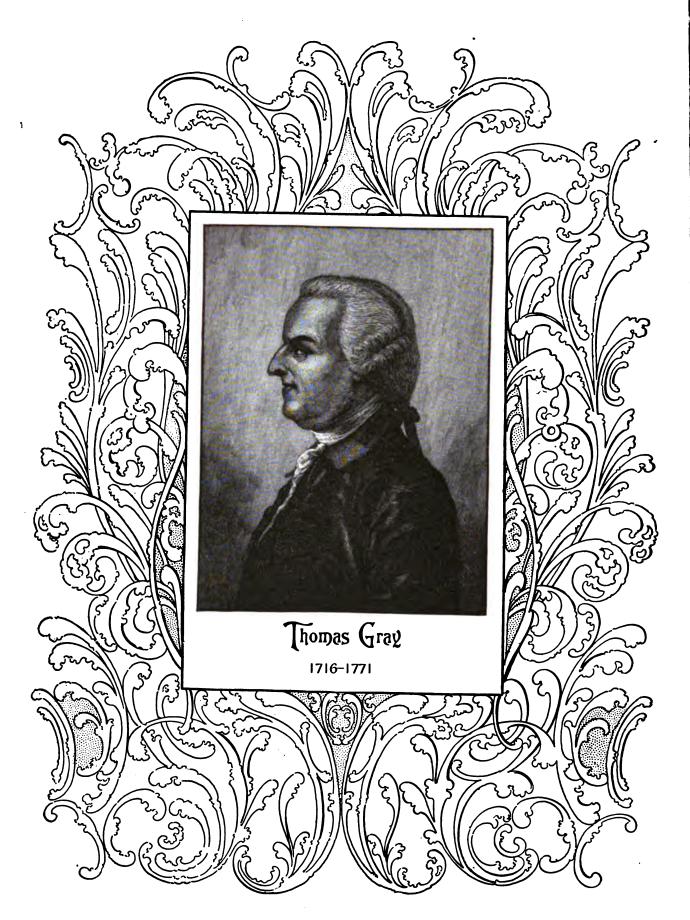
(Nast.) The act of breaming a ship's bottom, and paying it over with pitch.

Prav'img-dock, n. A dry dock in which ships are placed for the purpose of having their bottoms surveyed, breamed, payed, and caulked. See Dock.

Prav'itate, v. n. [L. Lat. gravito, gravitatem; Fr. graviter; lat. gravitagravis, havy.] To be attracted, as when one body tends toward another, according to the law of gravitation; to tend toward the centre.

Gravitation, s. [Fr.] (Physics.) A term often used synonymously with gravity, to denote that mutual ten-dency which all bodies in nature have to approach each other, with forces which are directly as their masses, and inversely preportional to the squares of their distances. That every particle of matter in the universe has a disnant every paracter of matter in the universe as a dis-position to press towards, and, if not opposed, to approach to every other, is a fact of which we derive the knowledge partly from our constant experience of what takes place partly from our constant experience of what takes place at the earth's surface, and partly by reasoning from the observed motions of the celestial bodies. This mutual tendency of all the particles of matter to each other is called the attraction of gravitation. In reference to any particular body, or mass of matter, the aggregate at-traction of all its particles is usually called simply its gravity. Universal experience demonstrates that all heavy bodies, when unsupported, fall toward the sur-face of the earth. The direction of their motion may be acceptained by a plumbiling and it is found to be always ascertained by a plumb-line; and it is found to be always perpendicular to the level surface of the earth—that is to the surface of stagnant water. But the earth is very to the surface of stagmant water. But the earth is very nearly spherical, and a line perpendicular to the surface of a sphere must pase through its centre; hence the di-rection of a body moving in consequence of the force of terrestrial gravity is towards the centre of the earth And this is the direction in which it must move if the fosce of gravity is the resultant of the attraction of all the particles of tarrestrial matter on the falling body; for it has been demonstrated by Newton that a sphere attracts an exterior body in the same manner as if all its matter were condensed into a single point at its cenits matter were condensed into a single point at its cen-tre. As budies when left without support fall from all heights to which they may be carried, it may be inferred that gravity acts on them during the whole time of their descent, and is therefore a uniformly accelerating force. This might also be inferred from the fact, which is easily endered tenable, that bodies which fall from a gre rendered tenable, that bodies which fall from a greater height arrive at the earth with a greater velocity. But Galileo was the first who proved, by experiments, that the acceleration of falling bodies is uniform, and that the spaces through which they descend are consequently as the squares of the time of descent. The best method of showing, experimentally, that gravity is a uniformly accelerating force is by means of Attwood's machine, the description and figure of which are given under the word ATTWOOD. Terrestrial gravity acts equally on all bodies, that is to say, impresses on all of them an equal quantity of motion, whatever their nature may be. This property of gravity was also demonstrated by Galileo In different hollow spheres, of equal weight and diam-eter, he enclosed equal weights of different substances the spheres were suspended by strings of equal length, and made to vibrate in very small arcs, when it was found that the time of oscillation was the same in all of iound that the time of oscillation was the same in all of them. Common experience would seem to be at variance with this result. Light bodies, as feathers, paper, &c., fall slowly and irregularly; and some substances, as smoke, vapors, &c., even ascend. But this, as is well known, arises from the buoyancy of the atmosphere. In the exhausted receiver of an air-pump a piece of gold

and a feather fall with the same speed, and strike the bottom at the same time. — Having accertained the law according to which gravity acts on bodies at the surface of the earth, the next question is to destermine its absolute intensity, or the velocity which it communicates to a body falling freely in a given time. On account of the rapidity of the descent of heavy bodies, this cannot be done by direct experiment; nor could attwood's machine be employed for the purpose with sufficient certainty. The only mode by which an accurate result can be obtained is by measuring the length of a pendulum which makes a given number of oscillations in a given time. From experiments made with the greatest care, it appears that the extreme amount of the variation of the gravitating force between the equator and the poles is one part in 194 of the whole quantity; that is to say, any body which at the equator weighs 194 lits, if transported to the pole would weigh 195 lits. The difference of gravitation, therefore, at the equator and the poles, is expressed by the fraction  $\frac{1}{144}$ . Now it has been demonstrated by Newton that the ratio of the centrifugal force at the equator to gravitation there is  $\frac{1}{144}$ . trifugal force at the equator to gravitation there is  $\frac{1}{287}$ . This is considerably smaller than the fraction  $\frac{1}{194}$ ; but the difference, which is  $\frac{1}{190}$ , arises from the oblate figure of the earth, in consequence of which a body placed at the pole is at a less distance from the centre than one at the contract and it becomes at the equator, and is therefore attracted more than it would be at the equator, even if the earth stood still, and there be consequently no centrifugal force. From this it may be readily understood that the variation of the intensity of gravity, or, in other words, the figure of the earth, may be deduced from the number of oscillations of the pendulums of the same construction would perform in 24 hours in places situated under different latitudes; or it might also be determined from a comparison of the different lengths which must be given to a pendulum in order that it may perform in every place the same number of oscillations in a given time. —University of the different lengths which must be given to a pendulum in order that it may perform in every place the same number of oscillations in a given time. —University of the different lengths which must be given to a pendulum in order that it may perform in every place the same number of oscillations in a given time. —University of the same of the oscillations of the planets and the canese of tides and other similar phenomena, it is to fir Issaec Newton that we are indebted for the principles and applications of universal gravitation, and through it, by means of pure geometry, we are able to possess the correct information that we have with regard to the movements of the earth, sun, and moon, and other heavenly bodies. The first rule is one which is very comprehensive, and which gives a good idea of the whole lease of the science; it is, that the attraction of one body upon another body does not depend upon the mass of the lody which is attracted, but is the same whatever be the mass of the body so attracted, provided that the distances be the same. For instance, the planet Jupiter attracts the sun, and also attracted the earth; but although the sun's mass is 300,000 times that of the earth, yet the attraction of the sun, because the earth and ass are equally distant from Jupiter. One of the simplest illustrations of this force is that of throwing a stone in a at the equator, and is therefore attracted more than it would be at the equator, even if the earth stood still, The flights of shot and shell are likewise illustrative of the same rule. (See GUNNERY.) Newton, before applying his theory of universal gravitation, sought for a law by which he could regulate the diminishing intensity of the same, and, after several experiments and calculations, he laid down the rule that the force of gravity diminishes exactly as the square of the distance increases, or, in other words, that the attractive force of the earth at the distance of the moon must be as much less than it is at the surface of the earth, he the square of the radius of the earth is less than the square of the moon's distance from the earth. Newton also found, that since the true diameter of the moon is to the true diameter of the earth as 100 is to 365, the mass of matter in the surth in the unameter or the earth as 100 is to 365, the mass of matter in the moon is to the mass of matter in the earth in the proportion of 1 to 30,788; and also that the accelerative gravity on the surface of the moon is to the accelerative gravity on the surface of the earth, as 1 is to 3, or is just 5 of that of the earth. He also proved that bodies moving under an attractive force which diminishes according to the inverse course of the distance. ing to the inverse square of the distance, must describe conic sections, having a focus at the centre of force; and also that they must conform to the laws of motion which Kepler discovered to belong to the planetary orbs. New-ton likewise was successful in determining that most of the inequalities of the moon and the planets are quences of the mutual gravitation of the different which compose the various systems upon each other; and in addition, that the same incomprehensible power not only regulates the motions of the different planets and satellites, but also causes the precession of the equinot only regulates the motions of the dincest planets and satellites, but also causes the precession of the equinoxes, produces the tidal action, and determines the figure of the earth. Gravitation, as applied to the celestial bodies, when we consider its effects, enables us to form many conclusions as to its nature, mode of action, and influence. We see that gravity is a force which is transmitted from body to body instantaneously, and not successively; for were we able to measure its transmission, that is, if we consider it in the light of being transmitted successively, we would find that the secular variation of the mean lunar motion would be sensibly affected. If we consider the question whether gravity is affected by the density of the bodies through which it has to pass in order to attract other bodies, we would be forced to agree with Laplace, that it is of so subtile and all-powerful a matter, or force, that not even the densest bodies in the universe can offer any obstacle to its free passage, or retard its effects on the body to be acted upon. In concluding this subject, it may be said



that if the earth's flattening at each of its poles were greater or less than 1-300th of its diameter, then the ef-fect of this alteration on the moon would, in changing fect of this alteration on the moon would, in changing the position of its fundamental plane, thus produce an inequality in the longitude greater or less than 8", by which the moon is sometimes before or behind her mean place. And, consequently, the deduction can be drawn, that by observing the moon, the oblateness of the earth can be discovered. As this theory has been found to be true, and just in its foundation, it is one of the most striking testimonies of the correctness of Newton's laws of universal gravitation.

Braw'itative, a. Tending to gravitate or be attracted to ward a centre.

toward a centre.

if may lay, s. [Fr. gravili; Lat. gravilas—gravis, heavy, weighty.] Seriousness; sobriety of manners; staidness of disposition; solemnity of deportment or

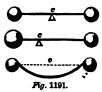
\*\* Great Cate there, for gravity renowned."

-Weight; relative importance; force of circumstance; enormity; sa, according to the gravity of the case.

(Mss.) Lowness of note; depth of sound;—correlative to acculences.

coateness.

Gravity. (Centre of.) (Physics.) The centre of gravity of a body is a point such that the force of gravity acting upon the part of the body on one side of this point always belances the force of gravity acting upon the part on the opposite side, no matter how the body may be placed. The centre of gravity is not always in the body itself; thus, if a straight strip of metal or wood be fastened to the sides of a ring so as to pass through its centre, it will be found that the ring will rest in any position when the centre is supported, and that it will not thus remain at rest on any other point. The centre of gravity, then, of a ring which is exactly alike throughout its whole extent is at the centre of the ring. If one part of the ring is heavier than the other, the centre and the heavier part. When two balls of the same weight are



of gravity will be found to be between the centre and the heavier part. When two balls of the same weight are connected by a straight rud (Fig. 1191), the centre of gravity will be found to be at the centre of the rod. If one ball be twice as heavy as the other, the centre of gravity will be in the rod at a point twice as near the heavier ball as the lighter ball. If 'he heavier ball be three times the weight of the lighter ball, the centre of gravity will be in the rod at a point twice as near the heavier ball as the other. If the balls are connected by a curved rod, the centre of gravity will no honger be in the rod, but in a straight line which joins the balls. Its distance from the balls will be as explained above. — When a body is at rest, it is said to be in equilibrium. When it is at rest in such a position that on being slightly disturbed it again returns to this position, it is said to be in stable equilibrium. When it is at rest in such a position that on being slightly disturbed it seeks a new position frest, it is said to be in unstable equilibrium. When a body remains at rest equally well in any position, it is said to be in indifferent equilibrium,—In every case it will be found that the centre of gravity of a body seeks the lowest position that it can take. Hence, when a body is so situated that its centre of gravity it is in unstable equilibrium; when, on being disturbed, its centre of gravity neither rises mor falls, it is in indifferent equilibrium. The broader the base of a body is, compared with its height, the more stable is its equilibrium. If, however, the body is not upright, it may be in neatable soulls.

with its height, the more sta-ble is its equilibrium. If, how-ever, the body is not upright, it may be in onstable equili-brium, even when the base is broad. On the other hand, a



broad. On the other hand, a body may be in stable equilibrium even when the base is very narrow. Thus the image in Fig. 1192 is balanced on its toe by means of the two heavy balls beneath, because these balls bring the centre of gravity below the point of support. — When a body is suspended by a string, and allowed to find its position of rest, the centre of gravity is in the line of continuation of the string. In every kind of machinery this important law, by which the centre of gravity is in the line of continuation of the string. In every kind of machinery this important law, by which the centre of gravity always tends to assume the lowest place, is kept constantly in view in arranging the weight of different parts of a machine or engine.

arranging the weight of different parts of a machine or engine.

Gravity, (Specific.) See Specific Gravity.

Gravity, a. [Ger. griebe, crispy remains of melted fat. &c.; Low Sax. grere; Swed. grefwar.] The fat and juicy matter that drips from flesh in roasting, or when baked or boiled, serving as a sauce or dressing for the meat when served at table; as, gravy soup.

Gray, Grey, a. [A. S. greg; Ger. grau; Dan. graa; D. graws; Swed. gra; Gr. geraics, old,—gerön, an old man.] Having the color of the hair of an aged person; hoary; hence, white with a mixture of black, or a dark mixed color; ash-colored; resembling the combined

Mature; old; venerable; as, gray in experience.

"Age...spares gray Marsthon." — Byron.

"Age...spares gray Marsthon." — Byron.

"A. A gray tint or color; a mixed hue of white and black; the color which is nearest in relation to black.

In its common acceptation, it denotes a class of cool cinerous colors, faint in hue; whence we have blue-grays, olice-grays, green-grays, purple-grays, and grays of all hues in which blue predominates: but no yellow or red grays, the predominance of such lues carrying the com-pounds into the classes of brown and marcon.

An animal of a gray color, as a horse, a badger, &c.

"O'er Blenheim's field he ride that day
A blood-horse, — a proud, aiching gray."—Lloyd

"O'er Blenheim's field he r-de that day
A blood-horse, — a proud, suching gray,"—Lloyd.

Gray, Asa, an American botanist, was born in Oneida co.,
N. Y., in 1810, and graduated at Fairfield College in 1831.

After a short time spent in the practice of medicine, he
devoted himself, under Prof. Torrey, of N. York, to the
study of botany. In 1834 he received the appointment of
botanist of the U. S. Exploring Expedition; but the
delay of that enterprise led him, in 1837, to resign his
post. In 1842, Dr. G. became Professor of Nat. History
at Cambridge, Mass. In addition to his lectures at New
York, Prof. G. published in 1838 ih: Elements of Bodany,
enlarged into the Budanical Text-book; and in 1838
commenced, with Dr. Torrey, The Plora of North
America. In 1848 he published the Manual of Bodany
for the Northern United States, and the first vol. of the
Genera Borvali-Americana Illustrata, and afterwards
his Budany of the United States Pucific Exploring Expedation under Captenn Wilkes. In 1874 he was chosen one
of the recents of the Smithsonian Institute, and in 1878 of the regents of the Smithsonian Institute, and in 1878 the Academie des Sciences of Paris elected him a cor responding member. D. 1888.

the Academia des Sciences of Paris elected min a corresponding member. D. 1888.

Gray, Gr Roz Robert, an English naturalist, senior assistant in the zoilogical department of the British Museum, B. 1808, is the author of a large and important illustrated work, the Genera of Birds, published in 1849, and which has been styled by Sir William Jardine "a ready index to the whole subject of ornithology." Mr. G. has been also an extensive contributor to the leading scientific journals of the day. D. 1872.

Gray, JOHN EDWARD, F. R. S., brother of the above, B. 1800, was the head of the zoilogical department of the British Museum, and a member of the chief scientific societies of Europe. He was esteemed one of the first naturalists of the age, and was the author of many valuable works on roilory and between Died in 1875.

Gray, Thomas, a celebrated English poet, B. in London in 1716; deucated at Eton, and Peter House. Cambridge, and entered at the liner Temple, with a view of studge, and entered at the liner Temple, with a view of studge.

in 1716; educated at Eton, and Peter House, Cambridge, and entered at the Inner Temple, with a view of studying for the bar. Becoming intimate, however, with Horace Walpole, he was induced to accompany him in his tour of Europe; but they parted at Reggio, and G. returned to England in 1741. Here he occupied himself several years in literary schemes, which he admirabily commenced, but wanted energy to mature. So slow was he to publish, that it was not until 1747 that his Ode on a Distant Prospect of Eton College made its appearance; and it was only in consequence of the printing of a surreptitious copy, that, in 1751, he published his Elegy written in a Country Church-yard. He declined the office of laurente on Cibber's death, in 1757; and the same year published his odes On the Progress



Pig. 1193. — GRAY'S HOUSE AT STOKE POGIS.

of Presy, and The Bard. In 1768, the duke of Grafton presented him with the professorship of modern history at Cambridge. But though G. published little besides his poems, he was a man of extensive acquirements in natural history, the study of ancient architecture, &c.; natural history, the study of ancient architecture, &c.; his correspondence places him among our best epistolary writers; and some of his posthumous pieces afford proof of his profound and varied erudition. As a poet, he is energetic and harmonious; and his lyrics, though few, have been rarely, if ever, surpassed. D. 1771.

Gray, a town of France, dep. Haute-Saone, 27 m. from Dijon. Pop. (1885) 8,250.

Gray, in Moise, a post-town of Cumberland co. Pop. (1897) about 1,580.

Gray, in Moise, a township of Pirestone.

Gray, in Missacota, a township of Pipestone.
Gray, in New York, a post-office of Herkimer co.
Gray An'timony, s. (Mis.) Sulphuret of anti-

mony. See STIBNITE.

Gray Cop'per, s. (Mis.) Same as TETRAHRDRITE (q. v.).

Gray'-beard, s. A hoary old man;—generally used in a contemptuous sense.

" Gray-beard thy love doth freeze."-Shake. Gray'-fly, s. (Zoöl.) The Trumpet-fly.

color of pepper and salt; as, a gray-headed man, gray Gray Hawk, in Kentucky, a post-office of Jackson co. eyes, a gray mare, &c.

"My hair is gray, but not with years." — Byron.

Gray'ish, a. Somewhat gray; partially or moderately

gray. Grey lag, n. (Zobl.) The wild goose,

Gray lag, Grey lag, n. (Zoll.) The wild goose, Amer ferms. See ARRENIES.
Gray ling, n. (Zoll.) A fresh-water fish, of the Salmonide family, in many respects very similar in its habits to the trout, delighting in clear rapid streams, and swimming with rapidity. It inhabits the northern rivers of Europe and Asia, and has been found in America in the cold clear waters of Great Bear and Winter lakes.

ica in the coid clear waters of Great Bear and Winter lakes.
Gray'-maili, n. (Bot.) See Lithespranum.
Gray'ness, n. Quality of being gray or grayish.
Grays, in Washington, a former county, now forming

part of Chehalis co.

part of Chehalis co.

Grays'burg, in Tennessee, a post-office of Greene co.

Gray's Harbor, in Washington, an arm of the Pacific

Ocean, extending into Chehalis county. It receives
the Chehalis river.

Gray's Lake, in Illinois, a post-village of Lake co.

Gray's Land'ing, in Pennsylvania, a post-office of

Greene county.

Gray's Lane'. in Illinois, a post-village of Lake co. Gray's Land'ing, in Pennsylvania, a post-office of Greene county.

Gray'son, in Arkansas, a post-office of Crittenden co. Gray'son, in Arkansas, a post-office of Crittenden co. Gray'son, in Allinoise, a post-office of Stantislaus co., about 37 m. S. of Stockton.

Gray'son, in Kentscky, a W. central county; area, about 520 eq. m. Rivers. Rough, Bear, Clifty, and Caney creeks. Surface, level; soil, fertile. Min. Coal and limestone. Oap. Litchfield. Pop. (1890) 18,688.

—A post-village, cap. of Carter co., on Little Saudy river, about 110 m. E. by N. of Frankfort. Pop. (1897) 510.

Gray'son, in Texas, a N. co., bordering on Indian Territory; area, about 960 sq. m. Rivers. East and Elm forks of Trinity river. Surface, undulating; soil, very fertile. Oap. Sherman. Pop. (1890) 53,211.

Gray'son, in Virginia, a S. S. W. co., bordering on N. Carolina; area, about 485 sq. m. Rivers. Kanawha river, and other smaller streams. Surface, diversified, Iron Mountain extending along its N. W. border, and the Blue Ridge along its S. E. Min. Iron. Cap. Independence. Pop. (1890) 14,394.

Gray'son Court-House, in Virginia. See Independence. Pop. (1890) 14,394.

Gray'son Court-House, in Virginia.

pendence. Pop. (1937) 12,392.

Gray'son Court-House, in Virginia. See Independence.

Gray'son Springs, in Kentucky, a P.O. of Grayson co, Grays's Valley, in Pennsylconia, a village of Tioga co, Grays'ville, in Ildinois. See Grayville.

Grays'ville, in Indiama, a post-office of Sullivan co. Grays'ville, in Indiama, a post-office of Sullivan co. Grays'ville, in Ohio, a post-village of Monroe co. Grays'ville, in Ohio, a post-village of Monroe co. Grays'ville, in Pennsylcania, a post-village of Hunterdon co, about 100 m. W. of Harrisburg.

Gray-Trout, a. (Ichih.) A large kind of trout, the Solmo eriom of Linneous; called also Bull-trout.

Gray'ville, in Illinois, a city of White co, on the C., C., C. & St. L. B. B.; 40 m. S. W. of Vincennea. Has some manuf. Pop. (1897) about 2,500.

Grasslemas, (gra-tha-lay'ma.) astrongly fortified town of Spain, in the province of Cadiz, 54 m. E.N.E. of the latter city. The trade of G. is mostly in bacon. Pop. 7,200. 7.200.

Grame, v. n. [Fr. raser, from Lat. rado, rasus, to scrape or rub off. See Grame.] To rub or touch lightly in passing; to brush lightly, as the surface of a thing; to lacerate slightly in rubbing; as, he was grazed by a

Grame, v. a. [A.S. grasian, Ger. grasen, Du. grasen, to grave; formed upon the respective nouns signifying Grass, q. v.] To feed or supply with grass, as cattle; to furnish pasture for.

"A field or two to grass his cows."—Swift.

To feed upon; to eat from growing herbage.
"Their steeds free graze the flowery ground."—Dryd
"To tend grazing cattle.

"O happy man, grasing his cattle in those pleasant fields."

-v. n. To one gram, ing cattle.

To supply grass; as, grazing lands.

Gran'er, n. That which grazes or feeds on grass, &c

"The cooking goose, close grazes." - Philips.

One who admits cattle to p v. n. To eat grass; to feed on growing grass; as, gras-

Girazier, (grā'zher,) s. One who admits cattle to pas-ture; one who rears or feeds cattle for market; one who deals in fat cattle wholesale.

She has a pot of money, her father being a rich granier."

"She has a pot of money, her father being a rich granter." Colling.
Gram'ing, n. A lea; a pasture; a patch of meadow.—
The act of feeding on growing grass; the raising or feeding of cartile.—A rub or light touch in passing; as, the grazing of carriage-wheels.
Graniceso, (grai-se-o'so.) n. [It.] (Mus.) An indication to the performer that the music to which this word is affixed is to be executed elegantly and gracefully.
Greense, (grai.) n. [Fr. graisse; It. grasso, from Lat. crassus, fat, gross; akin to Gael. creis, fat.] Animal fat in a soft or fluid state; oily, or unctuous matter of any kind, as tallow, lard, &c.:—confined to the fatty products of land animals only; as, candle-greese, bear's-greese, engine-greese, &c. grease, engine-grease, &c.

'A girdle, foul with grease, binds his obscene attire." — Dryden.

(Furriery.) An inflammatory swelling in a horse's heels, which suspends the usual greasy secretion of the part, and produces dryness followed by cracks and ulcerous issues; it is generally brought on by over-exertion, or by standing too long in the stable.

— a. To smear, daub, or amoint with grease, fit, or other slushy matter; as, to grease machinery, to grease one's

hair. — To bribe; to corrupt with money or presents; as, they greased his palm with gold.

they greased his palm with gold.

"Envy not the store
Of the greased advocate that grinds the poor." — Dryden.

—To cozon; to cheat; to swindle; to diddle; to overreach.
Grease'-cock, n. (Mach.) A short pipe fixed in the cylinder cover of a steam-engine, with two stop-cocks inserted at a short distance apart, and a funnel at the top for holding tallow. When the upper cock is opened, the tallow falls into the intermediate space; the cock is then closed, and the lower one opened for the melted grease to enter the cylinder, and lubricate the piston without allowing the steam to escape.

Greas'er, n. A term of contempt applied to Mexicans in the W. States of the Union.

Greas'illy, adv. With grease; in a greasy manner. —
Grossly: in a corrupt or indelicate manner.

Greas'iness, n. State of being greasy or fatty; unctuousness; oiliness.

tuousness: oiliness.

Grea'son, in Pennsylvania, a P. O. of Cumberland co. Greas'y, a. Smeared or defiled with grease; as, a greasy opton.— colly; unctuous; fat; consisting of, or containing, grease; as, a greasy mees. — Fat of body; bulky; — used in a contemptuous sense; as, a "greasy knight." — Shaks. (Furriery.) Affected with the disease called grease,

as a horse. Green's y, in Historic, a former P. O. of Macoupin co. Green's y, in Historic, a former P. O. of Macoupin co. Green's y Ridge, in Ohio, a post-office of Lawrence co. Green's y Ridge, in Ohio, a post-office of Lawrence co. Green's, (grāt,) a. (com. Greater; sup. Greatest). [A.S., Low Ger., and D. groot; Fris. grat; Ger. grows big, large, or great.] Large in bulk or dimensions; big; being of extended length or breadth; vast; eucormous; immense; huge; as, a great distance, a great castle, a great desert, a great river, a great length, breadth, size, &c. — Large in number; expressing a large, extensive, or unusual degree of anything; numerous; as, a great multitude.— Long continued; considerable in time, length, or duration.

"Thou hast spokes of thy servant's house for a great while to "Thou hast spoken of thy servant's house for a great while to come." — 2 Sam. vii. 19.

Important; weighty; momentous; as, a great under taking, a great principle, &c.

"They never fail who die in a great cause." — By Chief; principal; of vast power or excellence; supreme; illustrious; pre-eminent; distinguished; as, a great man, the Great Seal, &c.

"The heart ran o'er With silent worship of the great of old." — By

-Admirable; superior; eminent; distinguished by any quality or qualities, or acquirements; as, a great idea, a great poem, a great action.

" Great thoughts, great feelings came to them, Like instincts, unawares," — Monchton Milnes.

-Noble; dignified; grand: majestic; august; strong; mighty; as, a great hero, a great genius, &c.
"The world knows nothing of its greatest men." — E. Taylor.

"The world knows nothing of its greatest men." — H. Teptor.—Distant by one more generation; —in the ascending or descending line; as, a great grandfather.

By the great, in the abstract, gross, or whole.—"Carpenters build a house by the great." — Mozon.

Great circle-sailing. (Naut.) The steering of a ship in the are of a great circle of the sphere, or, in other words, the nearest course between two places.

Great Sad, the chief or principal seal of state; in England, the seal of state intrusted to the keeping of the Lord Chancellor.

The area, the wealthy; the powerful; the distinguished the seal of state in the course of the control of the course of

Lord Chancellor.

The great, the wealthy; the powerful; the distinguished; — opposed to the lowly.

Front Augh wick Creek, in Pressylvania, enters the Junian River in Huntingdon co.

Front Bar'rington, in Massachusetts, a post-town of Berkshire co., on the Housatonic river and the N. Y.,

N. H. & H. R. R., 40 m. S.E. of Albany, N. Y. Has extensive manufacturies of paper, cottons and woollens.

Pan (1889) 4.794.

Pop. (1896) 4,794.

Pop. (1885) 4,794.

Great Ba'sim, or Fremont Basin, in Utah and Nevada, an extensive tract of land lying between the Sierra Nevada and Wahaatch Mountains, having an area of about 175,000 sq. m. As yet its exploration has not been very thorough. It is surrounded on all sides by mountains and high hills, and consists for the most part of a dry arid desert, interspersed with a few fertile spots, It has some rivers, and a number of lakes, or sinks, which have no outlets, and of all of which the waters are salt, except Utah Lake. See Great Salt Lake.

Great Bear Lake. See Great Salt Lake.

Great Bear Lake. See Brae Lake, Great.

Great Bend, in New York, a post-village of Jefferson co., about 160 m. N.W. of Albany.

Great Bend, in New York, a post-village of Jefferson to the susquehanna river, and the D. L. & W. and Erie R. Rs., 47 m. N. of Scranton. It has extensive tanneries, sawmills, and other manufactories, and is surrounded by a presperous farming, grazing, and dairying region. Pop. (197) about 1,250.

Great Bridge, in Virginia, a past-village of Norfolk co., about 80 m. S.E. of Richmond.

Great Brit'sain, in a geographical sense, the largest and most important island of Europe, is generally termed the British Empire, or United Kingdom of Great Britain and Ireland. Britain (Britannia) was the ancient name of the island, by which it was known to the Romans. The same race that constituted the original population of Britain occupied also Armorica in France, and to this day speak essentially the same language. The distinction is for the most part made by the names of Bretagne, or "Little Britain," but Great Britain is apoken of when the affairs of the most important island of the world come into question. The term Great Britain was but little used by the islanders, until the acces-

sion of James VI. of Scotland to the crown of England united the entire island under one sovereignty. In the reign of Anne, on May 1, 1707, Great Britain became the legal name of the kingdom. It comprised England, Scotland, and Ireland (not to mention Wales, the smallest of the dependencies). The official style of the empire is the United Kingdom of Great Britain and Ireland, but in current language the term comprises the entire kingdom, English, Scotch, and Irish, and includes the entire imperial power. Under the head British Empire we have given the table and population of all the possesions under British rule. The details of the physical geography are given under England, Ireland, Scotland, and Wales, and nore minutely under the names of the several counties, lakes, rivers, islands, &c. Under this head are noticed: 1. The geography of the island of Great Britain; 2. The United kingdom of Great Britain and Ireland—its general lustitutions, statistics, &c.; 3. An historical and Wales, and nore minutely under the names of the several counties, lakes, rivers, islands, &c. Under this head are noticed: 1. The geography of the island of Great Britain; 2. The United kingdom of Great Britain and Ireland—Its general institutions, statistics, &c.; 3. An historical sketch of England; observing that the geography and history of Ireland down to the present day will be found under its own name. — The island of Great Britain lies between Lat. 49° 57′ 30″ and 58° 40′ 24″ N., and between Lon. 1° 46″ E. and 6° 13′ W., and is the largest island in Europe. It is bounded on the N. by the Atlantic, on the E. by the North Sea, on the S. by the English Channel, and on the W. by the Atlantic, the Irish Sea, and St. George's Channel. The most casterly, Lowestot Ness, in Norfolk; and the most westerly, Lowestot Ness, in Norfolk; and the most easterly, Lowestot Ness, in Norfolk; and the most easterly, Lowestot Ness, in Norfolk; and the most westerly, Lowestot Ness, in Norfolk; and the most easterly, Lowestot Ness, in Norfolk; and the Most Ness, and the Lowestot Ness, in Norfolk; and the Lowestot Ness, in Norfolk; and the that the inhabitants of England (excepting Wales) and of the Lowlands of Scotland may be considered as sprung from an amalgamation of the original Celtic with German and Scandinavian blood, the latter having predominated so as to determine the language, institutions, and character of the resulting race. Wales, and the Highlands of Scotland, are still inhabited by representatives of the ancient Celtic tribes. (See Scotland, Picts and Scotland, England and Sandon, Wales.)—Agric. The soil of G. B. is almost exclusively devoted to the production of two of the primary necessaries of society—breadstuffs (chiefly wheat, barley, and oats); and grass, roots, &c., as food for domestic animals. For this purpose, both the soil and the climate are admirably suited. McCulloch estimates the number of acres in England under grain crops at 6½ millions (wheat 3 millions, barley 1, oats and rev 2, beans and peas ½); and the total produce at 27½ million quarters—value \$185,000,000. The produce of potatoes, turnips, rape, and clover is estimated at \$130,000,000. The annual value of the pastures and meadow-lands is immense. The Highland and Agricultural Society of Scotland began in 1866 to collect careful statistics of that part of the island; but owing to a misunderstanding with the Treasury, the undertaking was not continued beyond 1857. In that year there were 3,556,572 acres under rotation, the chief crops being grass and hay, 1,459,805 acres; oats. 938,613 acres, yielding 2,750,763 bushels; wheat, 223,152, yielding 6,164,996 bushels; barley, 198,387, yielding 6,564,299 bushels; turnips, 476,691 acres, yielding 6,690,109 tons: potatoes, 19,154,009 horses, 974,437 cattle, 5,683,168 sheep, and 146,354 swine (see also IREA.ND). The amount of corn and cattle raised in the United Kingdom, however, is

not nearly equal to the consumption of the population. The average importation, of grain especially, amounted to 10,10,000 quarters during the last 15 years. The farming capital employed in the United Kingdom has been estimated in a widely different manner by various seems of the property of the prope

The Archbishop of Canterbury is the head of the church; this see was established in 597; the income is \$75,000.

—Hist. Nothing autheritic is known of the history of Eug-—Hist. Nothing autheditic is known of the history of England before Cresar, who twice invaded the island, then called Britannia, in 56 and 54 B.C. Claudius resumed the idea of subjugating Britsin A.D. 43, and from that time until 85, the Roman armies, making further progress at different times, penetrated as far as he Grampina Hills, but the N. portion of the island was never subdued by the invaders. In 411, Honorius alandoned Britain, whose inhabitants, finding it impossible to defend themselves against the Prica, called to their aid the Saxons, who e460) assistant the Prica, called to their aid the Saxons, who e460 hose them them so and founded the four kingdoms of Essex, Wessex, Simex, and Kent. The Angles, who followed them, setablished three other kingdoms, viz., Fast Anglia, Deira, and Merica (540-584). All these kingdoms ended by being reduced to one, under Egbert, the Saxon king of Wessex (827). After 835 the Danes ravaged England from time to time, but in 871 Alfred the Great forced them to desit, and from theoe till near the end of his reign (900) the Danes left the island in peace. Returning in 831, the Danes succeeded, in 1013, in putting their king, Sweyn, on the throne, which was not recovered by the Saxon dynasty with the ingome to the Plantagenets of Norman race on the female aide), and of whom Henry II. was the first king in England. This family reigned till 1485. The greatest events during this lapse of time were, the union of five large provinces of France with England by the accession of Henry II.; the struggle of this prince with Thomas A Becket (182 to 110);—the conquest of Ireland (117); the wars of Richard the "Lion-Hearted" against France (1937-1483),—and the civil war between royal family (1480-1483). Then followed the Tuke of Strugatest Promotery (1286 to 1514)—the bundrel-pearer was against France (1337-1483),—and the civil war between he bouses of York and Lancaster, called the war of the Toe Roses, which ended with the downfail of the henry united under his way Sociland, England, a

don in June, 1897, on the occasion of the 60th anniver-eary of Queen Victoria's accession, the fact that she had sary of Queen Victoria's accession, the fact that she had reigned longer than any preceding monarch giving the greatest interest and importance to the ceremonies, in which representatives from all sections of the empire took part. During the period of Queen Victoria's reign the progress of G. B. politically, industrially and commercially has been very considerable, while its relations to the other States of Europe have in many respects changed and its comparative importance has to some degree declined. Politically, the principles of democracy have greatly progressed, the franchise having been extended until it has become well-nigh universal, while several acts for parliamentary reform democracy have greatly progressed, the franchise having been extended until it has become well-nigh universal, while several acts for parliamentary reform have been passed. One important step in this direction was the Local Government Act of 1888, which gave to elected bodies the local administration previously held by the "gentry." In Ireland, reform has taken the shape of Land Acts in favor of tenants and to enable them to obtain possession of the land tilled by them; but the desire for home rule seems unabated by these and other concessions. Industrially, there has been considerable advance in the condition and rate of wages of the working people, while the principle of socialism, not heard of half a century ago, has grownuntil to-day it exerts a powerful influence upon the industrial population and has influenced important neglislation in its favor. Commercially, the changes since the queen's accession have been radical. In 1846 the corn-laws were abolished and other restrictions on trade and commerce removed, G. B. adopting that principle of free trade of which to-day she is the one great advocate among nations, and to which many ascribber commercial supremacy. At present, however, this supremacy is threatened by other nations, notably the United States and Germany, which have come into the field as powerful rivals, and each of which has gained a market for its manufactures, to some degree, within G. B. itself. The political supremacy of G. B. has similarly declined through the growth in strength and activity of Germany, Russia and France, her only superiority to-day being the strength of her fieet, which still in a measure assures her the empire of the sea.

SOVEREIGNS OF ENGLAND.

## SOVEREIGNS OF ENGLAND. DANES AND SAXONS.

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A. D.
975. Edward II., (the Mar
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827. Egbert. 837. Ethelwolf. 857. Ethelbald II. tyr.) 979. Ethelred II. 857. Ethelbald II.
860. Ethelbert.
866. Ethelred I.
871. Alfred the Great.
901. Edward I., (the
Elder.)
925. Athelstan.
940. Edmund I.
946. Edred.
955. Edwy. 979. Ethelred II.
1013. Sweyn.
1014. Canute (the Great).
1014. Ethelred II. (ngain).
1016. Edmund II. (Ironside).
1017. Canute (again).
1035. Harold I.
1040. Hardicanute.
1043. Edward (the Confessor).
1066. Harold II.

957. Edgar

NORMAN 1066, Dec. 25, William I. 1100. Aug. 5, Henry L. 1087, Sep. 26, William II. 1135, Dec. 26, Stephen.

1154. Dec. 19. Henry II. 1272. Nov. 20. Edward I. 1159. Sep. 3. Richard I. 1307. July 8. Edward II. 1199. May 77. John. 1327. Jan. 25. Edward II. 1216. Oct. 28. Henry III. 1377. June 22. Richard I 1307. July 8. Edward II. 1327. Jan. 25. Edward III. 1377. June 22. Richard III.

1216. Oct. 28. Henry III. 1377. June 22. Richard II.

1399. Sep 20. Henry IV. 1422, Sep. 1. Henry VI.

1413. March 21. Henry V.

1422, Sep. 1. Henry VI.

1413. March 21. Henry V.

1461. March 4. Edward IV. 1483. June 26. Richard III

1483. April 9. Edward V.

1485. Aug. 22. Henry VIII. 1553. July 6. Mary.

1502. April 22. Henry VIII. 1558. Nov. 17. Elizabeth.

1547. Jan. 28. Edward VI.

1547. Jan. 28. Edward VI.

1603. March 24. James I. 1625. March 26. Charles I.

INTEREBRINE. — The Commonwealth.

HOUSE 07 STUARY. (restored.)

HOUSE OF STUART, (restored.)
1660. May 29. Charles II. 1689. Feb. 13. William III
1685. Feb. 6. James II. and Mary.
1702, March 8. Anne.

HOUSE OF HANOVER. 1714. Aug. I. George I. 1820. Jan. 29. George IV. 1727. June 11. George II. 1830. June 26. William IV. 1700. Oct. 25. George III. 1837. June 20. VICTORIA.

and through Giles cos., pierces another ridge of the Alleghany Mountains, and enters W. Virginia between Morece and Mouroe cos.; thence generally N.W. through a third ridge of the Alleghanies, it continues by Greenbrier and Raleigh cos.. and through Fayette, Kanawha, Putnam, and Mason cos., till it empties into the Ohio River at Point Pleasant. Above the Ganley River it bears the name of New River. Length, abt. 400 m. Great'ly, adv. In a great degree; much.—Nobly, illustriously; magnanimously.

Great Mills, in Maryland, a P. O. of St. Mary's co. Great Meek, in New York, a post-village of Queen's co. Great Meek, in New York, a post-village of Queen's co. Great Meek, in New York, a post-village of Queen's co. Great meas, n. Largeness of bulk, dimensions, number, or quantity; magnitude; large amount; extent; high degree; as, the greatness of reward, the greatness of an enterprise, &c.

—Iligh runk, place, station, or position; elevation; distinction; dignity; eminence; command; power; grandeur; pomp; magnifeence.

—Some are born great, some achieve greatness, and some have greatness thrust upon them.—Saket thrust upon t

GREB

"Some are born great, some achieve greatness, and some have greatness thrust upon them."—Shake.
-Swelling pride; affected state.

"It is not of pride or greatness that he cometh not aboard your ships."—Bacon. Elevation of mind; nobleness of disposition; magna

nimity.
"The eternal substances of his greatness."—Beau. a

Great Oak, in Iowa, a post-township of Palo Alto co.

Great Oboo'pee River, in Georgia. See OGRECHER.

Great Ohoo'pee River, in Georgia. See OGRECHER.

Great Ohoo'pee River, in Georgia. See OGRECHER.

Great Or Sandy Point, in Massachusett, a promontory and light-house on the N. extremity of Nantucket Island. It exhibits a fixed light 70 ft. above the sealevel. Lat. 41° 23' 20' N., Lon. 70° 3' W.

Great Pond, in Maine, a post-office of Hancock co.

Great Basin (q. v.). It is about 90 m. long, 30 m. in width, and covers an area of 2,100 aq. m. It surface is 4,200 ft. above the sealevel. In the middle of the lake, several islands rise as high as 3,250 feet above the level of the water; the principal island is in Lat. 41° 10' N., and i.on. 112° 21' W. The islands are 9 in number; one of them is 12 miles, and another 16 miles in length. The water of the lake is so sait as to form one of the of the water; the principal island is in Lat. 41° 10′ N, and i.on. 112° 21′ W. The islands are 9 in number; one of them is 12 miles, and another 16 miles in length. The water of the lake is so salt as to form one of the purest and most concentrated brines known in the world. It contains 22 per cent. of chloride of sodium, slightly mixed with other saits. This lake, in whose waters no living creature is found, receives from the south, by the Jordan, the waters of the Utah Lake, which are fresh, and those of the Wear River from the north; but it has no outlet. It has been called the "still innocent Dead Sea;" and, certainly, in the quality of the water, and the wild weird aspect of the surrounding scenery, the lakes greatly resemble each other. The first mention of the G. S. L. was by Baron La Hontan, in 1689, who did not himself visit it, but who gathered some notions of it from the Indians west of the Mississippi. It was first explored and described in 1842, by Colonel Fremont. A thorough survey was made in 1849-1850 by Captain Howard Stansbury, of the United States army, whose report was printed in 1852. About 38 m. to the S.E., and connected with it by the Utah or Jordan River, is Utah Lake, the waters of which are fresh. Great Salat Lake, city and county. See Salt Lake. Great Slave Lake, [Fr. Lac de Fizelare,] a considerable lake in British N. America, of a very irregular shape, and covering an area of upwards of 15,000 sq. m. It lies between Lat. 60° 40° and 63° N., and between 109° 30′ and 117° 30′ W. Its main outlet is the Mackensie River, which flows into the Arctic Ocean.

Great Slave Eaver, a river of British N. America, connects Lake Athabasca with the Great Slave Lake; length, about 300 m.

Great Slave Bayen, in N. w. Fork, an arm of the Atlantic Ocean on the S. coast of Suffolk co., Long Island. It is 60 m. long and from ½ to 5 m. wide. Great South Beach, which is about 35 m. long, and has Fire Island Light-house on the W. extremity, separates it from the ocean.

ocean.

Great Valley, in New York, a post-town of Cattaraugus co., about 50 m. S. E. of Dunkirk. It was formerly a reservation of the Seneca Indians. Pop. (1897) about 1.940.

erly a reservation of the Seneca Indians. Pop. (1897) and 1. George II. 1830. June 20. Victoria.

Great Fish River, or Thew-ze-choe, a river of British N. America, enters the Arctic Ocean in Lat. 61 17 31" N., Lon. 94° 39' 45" W.

Great-thearted, a. High-spirited; undejected.

Great Island, an island in Base's Straits, between Australia and Tasmania. Ext. 40 m. in length, with a breadth of 12 m. Pp. 41,000.

Great Island, an island of Ireland, in Cork harbor; area. ab. 12 sq. m.—Another in Wexford harbor.

Great Island, in New Hamphire, an island and lighthhouse at the entrance of Portsmouth harbor. It or shibits a fixed light 90 ft. above the sea-level. Lat. 43° 33° N., Lon. 70° 43' W.

Great Kanawha, (ka-naw'ea.) a river in N. Carolina, Trypinia, and W. Firginia, which rises in Watangs co., in the former State, and taking a tortuous N. K. course through Ashe co., enters Virginia in Grayson co.; thence traversing Carroll co., it makes its way through the Iron Mountain (a ridge of the Alleghany Mountains) into Wythe co., and from here following a general N.E., N., and N.W. course between Pulaski and Montgomery

Greciam, (grčihan,) a. (Geog.) Relating, or belonging

to Greece.
 (Geog.) A Greek; a native or inhabitant of Greece.
 A Jew who understood Greek. (Acts vi. 1.) — One who is a ripe scholar in the Greek language, history, or lit-

complished of Greciens." - De Quincey.

Grecian fre. See GREEK FIRE.

Greciam, (grésism.) n. [Fr. grécisme.] An idiom of the Greek language; a lielleniem.

Greciae. (grésis.) v. a. To make Grecian. — To trans-

late into Greek.

Gre'cize, Gre'ciamize, v. n. To speak the Greek language.

Greeque, (grêk.) s. [Fr.] A French coffee-pot.
Greeque, (A la., a. [Fr.] After the Greek manner
or fashion.

Greece, in New York, a post-township of Monro

Greece, in New York, a post-township of Monroe county.

Greece, a modern kingdom of Europe, and the most celebrated state of antiquity. In its flourishing period, G. comprised the entire S. portion of the E. peninsula of Europe, extending N. to Lat. 422, including the lonian Island. Grete, and the siands of the Archipelago This famous region was originally called Heltar, and received the name of G. from Freece, Prince of Thessaly The modern kingdom of G, though smaller than the ancient country of the same name, comprises the territories of the modern kingdom of G, though smaller than the ancient country of the same name, comprises the territories of the modern kingdom of G, though smaller than the accient country of the same name, comprises the territories of G., together with the islands of Euboca, the Cyclades, and the two Sporades, and has been considerably enlarged by the annexation of Thessaly and part of Epirus, ceded by Turkey in 1881 in execution of the treaty of Berlin. Total area (islands included) 25,101 sq. niles.—Government. The present constitution of G, adopted in 1864, vests the whole legislative power in a single chamber of representatives, called the Boalé, whose numbers are elected by universal suffrage; the executive is vested in the King and his ministers (who are responsible to the Boulé), who are assisted by 8 Council of State.—Fisances. The finances of G, are and have long been in a state of great disorder. The revenue, amounting annually to about \$18,000.00, is every year inferior to the expenditure, and the public debt steadily increases, amounting in 1890 to \$107,305,312; in 1895 to \$159,149,403. Continents G, is divided into 16 provinces, or Nomarchies, corresponding to our States, and these in turn are subdivided into Eporachies. Pop. of Greece (1896) about 2,148,000.—(Physical Geop.) No country is more remarkable for the irregularity of its shape, its shores, Mr. be. S. E. for about 200 miles, gradually decreasing in breadth from Acarnania to Cape Colonna in Actica. Physical Geop.)

reach quite to the extremities of the four 8. promontories of the peninsula. The culminating point in this part of Greece is Mount St. Elias (Taypetos), in Maina, 7,900 feet high.—Rivers and Lakes. G. has no navigable rivers, nor would any be worth notice, were it not for the classical recollection which attach to every portion of both soil and water of this celebrated country. The Aspro-Potamus (Acheleus), between Ediolia and Acarnania, is the largest; the principal remaining ones are the Gavios Mavro-Potamus (Opplussus of Bosotia), which runs into the Lake Topolias, the Heliada (Sperchius) Asopo, the Athenian Crphissus and Ilissus; in the Morea, the Rouphis (Alpheus), Wailico (Euroles), Illiaco (Peneus), Planizza (Inachus), Mavro-nero (the ancient Syz), &c. The principal lake is that of Topolias (Oppuis), in W. Bosotia, said to be 1,000 feet above the sea. There are a few insignificant pools in the Morea, including the Lernean and Stymphalian lakes so famous in classical fable.—Marshes are numerous. Nearly the whole N. shore of the Morea, from Corint to Patras, is low and marshy; and the inhab. of both those towns, as well as of Nauplia, Argos, and Zeitoun, the plain of Marathon, and a portion of that of Athena, suffer, at certain seasons of the y ar, from malaria generated by stagnant pools. The want of navigable rivers in Greece is obviated by the numerous guifs and inlets of the sea, which indent its commerce, while they add to the variety and beauty of the scenery. The principal guifs or bays are those of Volo, Zeitoun, Egina, or Athens (Sinus Saronicus), and Argos or Nauplis on the E.; Kolokythis and Koron on the S.; Arkhadia, Patras, and Arts, on the W.; and the extensive and beautiful Guif of Corinth, between Hellas and the Morea. Between Eubose and the main-land are the channels of Talanti and Egripo, united by the anextensive and beautiful Gulf of Corinth, between Hellas and the Morea. Between Euboea and the main-land are the channels of Talanti and Egripo, united by the ancient Euripus. The shores of Greece are mostly abrupt. The chief headlands are, Capes Mantelo in Euboea, Colonna (Sunium), and Skyllo (Scyllaum) on the E: St. Angelo (Matea), Matapan (Tenarum), and Gallo (Acritus Pr.), on the S.; and Klarensa and Skrupha on the W. coast.—Gridopy and Mineraleys. The greater portion of the country consists of secondary formations. G.,



Fig. 1195. — Vale of tempe, (thessalt.)

generally speaking, is a region of compact gray lime-stone. The shores of the Morea are bordered by tertiary formations, containing an abundance of fossil shells. Vol-canic action is clearly traceable, particularly in some of the islands. The whole of G. abounds with caverus canic action is clearly traceable, particularly in some or the islands. The whole of G. abounds with caverns and fissures, whence sulphurous and other mephitic vapors arise, which were taken advantage of in antiquity, at Delphi and elsewhere, for practising religious deceptions. There are numerous hot and cold mineral springs, both saline and sulphurous; but few have yet been analyzed. In some parts the soil is impregnated with nitre; this is especially the case near C-rinth and Kalavrita. Marble of various colors, red and green in the Morea, and white at Pentellcus in Attica, porphyry, slate, gypsum, zinc, lead, iron, gold, and silver in small quantities, cobalt, copper, manganese, alum, sulphur, and asphaltum, are among the principal mineral products. It is the opinion of the most competent authorities that the gold, silver, copper, and lead mines of Attica and the islands of Siphnes and Seriphos are far from being exhausted. Iron abounds in Seyros, at Tænarum, and in Eubesa, where, also, as well as in Elis, there are abundant seams of coal.—Ctimate. Temperate, and for the most part healthy, except in the low and Tenarum, and in Euboes, where, also, as well as in Elis, there are abundant seams of coal.—Ctimate. Temperate, and for the most part healthy, except in the low and marshy tracts around the shores and lakes, some of which are very unhealthy. The mean temperature, in a country the surface of which is so uneven, must, of course, vary considerably; but the medium temperature of the year in the plains of N. Greece may be about 60°, and in those of the S. about 64° of Fahr. At Athens the thermometer not unfrequently rises in July above 100° Fahr. Snow falls in the mountains by the middle of Oct., and even in the plains it is occasionally six inches deep; but it never lies long in the latter. The winters at Athens are confined to the first two months of the year. Both spring and autumn are rainy seasons; and in Dec. the rains are generally so heavy that many parts of the country are laid under water; but throughout the whole summer, which may be said to comprise half the year, a shower, or a cloud in the sky, is rare in several parts of the country.—Productions. The more common products of Greek soil in ancient times were wheat, barley, and other cereals; flax, wine, and oil, with fruits of various kinds. The figs of Attica were and stillare famed for the excellence of their flavor. Forests conce covered many of the bills, and supplied timber for domestic purposes and for ship-building: they are still extensive in some parts. The most important productions of modern G. are those mentioned above, with maise, rice, millet, currants, and silk. Honey is produced in great quantity on Hymettus and in some parts of the Peloponnesus. The mulberry-tree is largely grown for the silk-worm; and on the north and south n-b-way the Gulf of Corinth, as well as in Arcadia, and the west cast of the Peloponnesus, the Corinthian grape or currant is most extensively cultivated. Vince flourish in almost all parts, but the island of Santorin possesses the most tamens vineyards, with the greatest variety of grapes, and impishes a wine highly prized by the Russians. The olive grows in a wild state over all parts of G.; when ingrafted, it yields an excellent fruit, which the inhabitants pickle in very large quantity, as a staple article of food. The oil of the olive serves to supply light, and is used in cooking and for food, as we employ better. Cotton, madder, tobacco, and leguminous plants grow in considerable quantity. Futt-trees are especially fertile; figs and apricots are plentiful and of excellent quality; oranges, citrons, lemons, pomegranates, almouds, water-melons, gourds, and others of less note are widely spread, largely produced, and of excellent quality.—Agri-culture. The agricultural implements are still as rudees in ity; oranges, citrons, lemons, pomegranates, almonds, water-melons, gourds, and others of less note are widely spread, largely produced, and of excellent quality.—Agriculture. The agricultural implements are still as rude as in the days of the Peloponnesian war, or even of Hesiod; and this, added to the scarcity of ploughing-oxen, ruggedness of the country, general thinners of soil, and difficulty of tillage and irrigation, is enough to damp the ardor of even a more energetic population. The houses of the country-people are in most parts little better than mere hovels, and a large proportion of the arable land is untilled. The modes of tillage are of the most primitive kind; and thus, though nearly half the male population of G. is employed in agricultural labors, they make but slight impression on the general aspect of the country, and influence little the amount of exports; in fact, they do not produce as nuch grain as supplies the wants of the population, and that, too, though a higher yield is given in many parts of G. than in other countries. Much labor, however, is bestowed on the cultivation of the ollve, vine, mulberry, and fruit trees. The greater part of the land belongs to the state; rent is paid in kind, and in a certain proportion (one third) to the net produce.—Sceney. Travellers in G. generally speak in high terms of its scenery, of which Fig. 1195 may give an idea. It has everywhere the finest views, and is interesting, not less from its natural beauties than its classical associations, and the ruins of ancient art and splendor scattered everywhere over it.

"Yet are thy sites as blue, thy crags as wid; Sweet are thy groves, and verdant are thy fields,

our scattered everywhere over it.

"Yet are thy akies as blue, thy crags as wild;
Sweet are thy groves, and verdant are thy fleda,
Thine olive ripe as when Minerva smiled,
And still his houled wealth Hymetus yields;
Ther the blithe bee his fragrant fortress builds.
The freeborn wanderry of thy mountain air;
Apollo still thy long, long summer glids.
Apollo still the long, long summer glids.
Tr, Glory, Freedom fall, but Nature still it fair.

Art. Glory, Freedom fall, but Nature still is fair.

"Where'er we tread, 'its haunted, holy ground;
No earth of thine is lost in vulgar mould,
But one wast realm of wonder spreads around,
And all the Muse's tales seem truly told.

Till the sense aches with gazing to behold.
The scenes our earliest dreams have dwelt upon;
Each hill and dale, each deepening givn and wold,
Defice the power which crushed thy temples gone:
Age shakes Athena's tower, but sparse gray Marshoc.

Childle Herold, cante fit.

Age shakes Athena's tower, but sperce gray Marathec." Childe Herold, canse II. Manners and Customs. The following statements embody the valuable testimony of Thierach as to the habits and state of the people when he visited G. in 1831-32:—
"There is a pretty marked distinction among the inhabitants of the three great divisions of G.—Greece N.—Greece N.—Greece have retained a chivalrous and warlike spirit, with a simplicity of manners and mode of life which strongly remind us of the pictures of the heroic age. The soil here is generally cultivated by Bulgarians, Albanlans, and Wallachians. In E. Greece, Parnassus, with its natural bulwarks, is the only place where the Hellenic race has maintained itself; in the mountainous parts of W. Greece there are also some remnants of Hellenic stock. In these parts the language is spoken with more purity than elsewhere. The population of the Peloponnesus consists nearly of the same races as that of N. Greece; but the Peloponnesians are more ignorant and less honest than the inhabitants of Hellas. The Albanlans occupy Argolis and a part of the anxient Triphylis. more ignorant and less ionest than the inhabitants of the lalas. The Albanians occupy Argolis and a part of the ancient Triphylia. Among the rest of the inhabit-ants, who all speak Greek, there are considerable social differences. The population of the town is of a mixed character, as in N. Greece, where there is an active and intelligent lody of proprietors, merchants, and artisans in the towns, and among them some of Greek stock. The Mainotes form a separate class of the population. They are generally called Mainotes from the name of They are generally called Mainotes from the name of one of their districts; but their true name, which they have never lost, is Spartans. They occupy the lofty and sterile mountains between the guifs of Laconia and Messenia, the representatives of a race driven from the sunny valley of the Eurotas to the bleak and inhospitable tracts of Taygetos, though the plains which are apread out below them are no longer held by a conqueror, and the fertile lands lie uncultivated for want of laborers. In the islands there is a singular mixture of Albanians and Greeks. The Albanians of Hydra and Spezzia have long been known as active traders and excellent mariners. The Hydriotes made great sacrifices for the cause of independence in the late war; the Spezziotes, more prudent and calculating, increased

their wealth and their merchant-navy. The island of Syra, which has long been the centre of an active commerce, now contains the remnant of the population of Ipsara and Chios. The Ipsariots are an active and handsome race, and skilful seamen; the Chiota, following the habits of their ancestors, are fond of staying at home and attending to their shops and mercantile speculations. They amass wealth; but they employ it in founding establishments of public utility, and in the education of their children. In Tinos, the peasants, who are also the proprietors, cultivate the vine and the fig even amidst the most barren rocks; in Syra, Santorin, and at Naxos, they are the tenants of a miserable race of nobility, whose origin is traced to the time of the crusades, and who still retain the Latin cred of their ancestors. Besides these, there are various bodies of Sulictes, of people from the heights of Olympus, Candiotes, many dreek families from Asia Minor, Fanariotes, and others, who have emigrated or been driven by circumstances within the limits of the new kingdom. The Ipsariots are those who are supposed to have the least intermixture of foreign blood. They have the fine and characteristic Greek physiognomy, as preserved in the marbles of Phidias and other ancient sculptors; they are ingenious, loquacious, lively to excess, active, enterprising, vaporing, and disputatious. The modern Greeks are generally rather above the middle height, and well shaped; they have the face oval, features regular and expressive, eyes large, dark, and animated, eyebrows stegenerally rather above the indode height, and went shaped; they have the face oval, features regular and expressive, eyes large, dark, and animated, eyebrows arched, hair long and dark, and complexion olive-colored. The islanders are commonly darker, and of a stronger make

than the rest: but than the rest; but the Greeks are all active. hardy, brave, and capable of enduring long privations. Gen-erally speaking, the woman of the erally speaking, the women of the islands and of Helias (Fig. 196) are much handsomer than those of the Morea. The character of the Greeks while under Turkish rule was thus aummed. der Tarkish rule was thus summed up by Mr. Hope:
—(Anastasius, 1.78-80.) 'The complexion of the modern Greek may receive a different cast from different surrounding objects: rounding objects: the core is still the same as in the days



of Pericles. Credulity, versatility, and the thirst for distinction, from the earliest periods and the thirst for distinction, from the earliest periods formed, still form, and ever will form, the basis of the Greek character. ... When patriotism, public spirit, and preemience in arts, science, literature, and warfare, were the road to distinction, the Greeks shone the first of patriots, of heroes, of painters, of poets, and of philosophers. Now that craft and subtlety, adulation and intrigue, are the only paths to greatness, the same Greeks are—what you see them. The Albanians are of a much more serious and pensive disposition than the Greeks; and it has seen reparked that they may be considered to hear the ous and pensive disposition than the Greeks; and it has been remarked that they may be considered to bear the same relation to the latter that the Doric did to the Ionic population in ancient times. The Ionguage of the modern Greeks (for the Albanian is of Illyrian origin is called Romaic. It has a greater similarity to the ancient Greek than the Italian to the Latin; but many of the alterations from the ancient tongues which distinguish both the modern languages are analogous. Many of the popular customs of the Greeks bear the impress of antiquity; various superstitions observances are kept up; and even the ordinary amusements of the people are the same which were popular in ancient times. The far-famed Romaica, for instance, the theme of so many travellers, is obviously the same as the Crepeople are the same which were popular in ancient times. The far-famed Romaica, for instance, the theme of so many travellers, is obviously the same as the Cretan or Devialian dance; and another modern dance, the Albanatico, is supposed to resemble the Pyrrhic dance of the ancients." — Manuf. Unimportant, and almost wholly domestic. — Commerce. The Greeks have particularly distinguished themselves by the spirit and success with which they have engaged in nautical and mercantile enterprises. Their commerce, next to their freedom, was the grand source of the prosperity of Athens, Corinth, and other Greek of these of antiquity. And in this respect the modern Greeks have been no monecessful imitators of their illustrious progenitors. The great articles of export from Greeks have been no monecessful imitators of their illustrious progenitors. The great articles of export from Greeks never been no monecessful imitators, and to become the principal imports being manufactured cotton and woollen goods, corn, with a great variety of subordinate articles, principally from England, France, and Germany.—Education is free to all, from the humblest school to the university; hence an unusual number of Greeks make their way into the learned professions, and an extensive clucational machinery is necessary to supply the demand for knowledge. The schools are divided into communal, or elementary, and becomes, and an extensive educational machinery is becomes to supply the demand for knowledge. The schools are divided into communal, or elementary, and Hellenic, in the latter of which ancient Greek is taught together with other broughes. Above these are various technical schools, and the University of Athens.—

History. The Greek nation boasts of the highest antiquity; and in the early and mythic period of their history it is almost impossible to separate fable from fact. The Pelasgi were the first inhabitants, succeeded by the Hellenss. Having gained the advantage over the Pelasgi, and driven them to the islands, they peopled the content with their own nation, who were divided into four tribos, viz., Æolians, Dorians, Ionians, and Acbairans. The Hellense spread in different directions over the country, and were soon joined by colonists from Egypt and Phœnicia. The first constitution of Greek cities is beyond the reach of exact history; but it seems that monarchy was the earliest form; and Sicyon is stated to have founded (S. C. 2000) Athens, Thebes, Sparta, Corinth, and Argus. Of the mythic or heroic period, the principal events are the siege of Thebes, and the Trojan war, commencing 1198 s. c. The confusion arising from the latter event deprived many kingdoms of their princes, and encouraged the ambitton of the arising from the latter event deprived many kingdoms of their princes, and encouraged the ambition of the Dorian heraclidae to such an extent that they expelled the inhabitants of the Peloponnesus. A freeh impulse was given to emigration; large bodies of people crossed the Egoan, and colonized the shores of Asia Minor; and as the governments changed with the rulers, the states of Greece now began to partake of that republican form which was afterwards their peculiar characteristic. The civil policy of Sparta and Athens, the growing power of which latter now began to lessen the influence of the other states, military knowledge, the arts of refinement and politics, advanced rapidly, and the quick and sensitive Greeks carried refinement of manners to an extent not yet exceeded in modern times. They had at the same time of the colonial states are also as a state of the colonial states and love of liberty bore them successfully through all the troubles of the Persian war (a. c. 460); but from the same reasons they became involved in intestine feuds. The Peloponnesian war, which lasted 30 years (ending n. c. 464), destroyed their union, and paved the way for Phillip of Macedon, who (a. c. 385) gained the decisive battle of Cheronase, and thus became master of Greece. The brilliant conquests of Alexander engaged them for a few years; but their courage was now enervated, and their lave of liberty almost extinguished. When the Achaian league proved a vain defence against the kingdom of Macedon, forecce was utterly unable to contend with the arms of Rome; and after a brief contest, ending with the battle of Corinta (146 a. c.), the entire country became an integral portion of the Roman empire. Literature and the arts, long on the decline, were finally destroyed by Justinian, who closed the school of Athens, In 600, Alaric the Goth Invaded the country, followed by Genseric and Zaber-Khan in the 6th and 7th, and by the Normans in the 11th century. After the Latin conquest of Constantino, of the King of the first particular

had been obliged by a vigorous popular movement to take this course, and sent its armies into the field in a state of very imperfect discipline and poorly provided with munitions of war. The Turks, on the contrary, were ably led and in an excellent state of organization, the result being that the personal valor of the Greeks served them poorly in the absence of discipline and generalship. The demoralization of the defeated Greek carmy became so great that an occupation of Athena by

the result being that the personal valor of the Greeks served them poorly in the absence of discipline and generalship. The demoralization of the defeated Greek army became so great that an occupation of Athens by the victorious Turks was imminent. At this critical juncture the powers of Europe intervened, obliged Greece to withdraw her troops from Crete, induced Turkey to consent to an armistice, and made earnest efforts to effect a settlement. Turkey demanded Themasly, which her armies occupied, and a large indemnity in money. The former the powers refused to grant, demanding that she should accept the former frontier, but agreed to an indemnity within the power of Greece to meet. At the time of this writing the matter of the exacuation of Themaly seems virtually settled by reluctant and sullen acquiescence on the part of Turkey.

Greed, s. [icel. grdd, avidity.] Gladness; lust of gain; covetousness.

Greed'lly, adv. With a keen appetite for food or drink; voraciously; ravenously; with keen or ardent desire; eagerly.

Greek, a. Relating or pertaining to Greece; Greecian; as, a Greek profile.

Greek, a. A Relating or pertaining to Greece; a Grecian; a Hellene.—The language of Greece.

Greek Architecture. The early architecture of Greece is exemplified in the massive remains of walls at Myceus, Argus, and others of the old Grecian cities, which are composed of huge, irregular, undressed blocks of stone roughly piled together. (See Cyclopan Argus, with rude representations of animals, as in the principal entrance examples remain of attempts to adorn the stones forming the piers and lintel of a gateway with rude representations of animals, as in the principal entrance to the Acropolis of Mycene mentioned above. Grecian architecture, properly so called, was the production of a far later age, and may be traced to that of Egypt and Western Asia, combining, as it does, the strength and solidity of the former with the more elegant features and decorative principles of the later. The Doric, the first of the three Greek



Fig. 1197. — THE PARTHENON, (as it is.)

Fig. 1197.—THE PARTHENON, (as it is.)
beauty. The Ionic order, and its ornamentation, is derived from the architecture of Western Asia, and is characterized by a greater degree of lightness in its proportions than the Doric order possesses, and the introduction of decorations in minor details. The Corticular, the last, and by far the most elegant of the Greek orders, surpasses the Doric and Ionic orders in its elaborate adornment and symmetry of proportion; but, even in this, a similarity to the architecture of Egypt can be traced in the bell-shaped capitals of its columns, and the clusters of leaves that curl outward from its surface. But, although each order exhibits a decided step in advance of that which precedes it, as far as elegance and ornament are concerned, the three orders were unformly characterized by beauty and harmony of proportion; and it may be said that the buildings of ancient Greece, especially the temples, were superior to those of any climate and any age as regards simplicity of form, the purposes for which they were intended, and the habits and requirements of the people for whose use they were erected. The chief characteristics and the scale of proportions preserved in the three Grecian orders, will be found elsewhere (see Architecture); and the principal parts that compose what is termed an order in classic architecture have been treated under their respective headings (see Architexter, Blesz, Capital. Column. Corrices, Carrialal Column. classic architecture have been treated under their respective heading (see Architeatur, Base, Capital. Column, Cornice, Extablature, Friere); but it may be desirable to state here the particular features and marks by which each order may be readily distinguished, and to point out some recent discoveries that have been made with regard to the method adopted by the Greeks to give the appearance of perfect beauty to their works, and to avoid anything that might offend the eye of any of this highly civilized and educated people. It should also be stated, that each order consists of two distinct parts,—the column and the intablature,—which are again subdivided, the former into the base, shalt and capital; and the latter into the architrare, free, and

cornics; and that it is by certain differences in these divisions and subdivisions that the orders themselves are distinguished. The Doric order may be readily discerned by having no base to the column, the lower end of the shaft resting immediately on the pavement; the shaft itself is also adorned with broad shallow flutings separated by a sharp ridge, the capital being composed of a broad echinus moulding surmounted by an abacus, while the frieze is adorned at intervals with projecting pieces called trigityphs, which are about half the width of the lower diameter of the column, having the appearance of being separated into three equal parts by two vertical grouves cut 'sepily into the material of which it is formed, the horizontal section of which is in the shape of the letter V, the outer edges of the piece being chambered off at the same angle. This order was in some instances richly adorned with sculpture in low relief along the frieze, and in high relief on the metopes or spaces between the triglyphs, the tympanum of the pediment rising in an obtuse angle above the entablature being also filled with sculpture in high relief, and frequently with perfect satures. The louic and Corinthian capitals are to be distinguished from each other, the former by its volutes, and the latter by its exquisitely carved foliage and its height, which is considerably greater than that of the capitals of the Doric and Ionic orders. There is little perceptible difference in the ahafts of the columns of the lonic and Corinthian orders, or in their entablatures. The temples of the Greeks were generally placed on a level platform, consisting of three steps (Fig. 1197) rising one above another, and of greater or less depth in proportion to the height and diameter of the columns that were placed upon them. These steps were too deep to afford the means of access to the temple, and it is supposed that intermediate steps were placed at intervals along the larger ones, to allow the worshippers to pass easily from one to another, and thu architrave or lintel was formed above the window of the same width as the sill below. The doorway was always in the centre of the pro-naos, or portice of the temple, and was carried up to a considerable height for the purpose of admitting light into the interior. The arch is never employed in Grecian architecture, which is chiefly characterized by the use of the beam supported on columns, by which an appearance of great strength and solidity is obtained. It is also marked by its strict adherence to outlines formed by horizontal lines, and lines that are vertical, or nearly so, being frequently slightly inclined inwards. It is a known principle in perspective, that straight lines proceeding to a great distance in the same direction present a slightly curved appearance, the Greek architects carefully constructed their vertical and horizontal lines in the form of a very slight and scarcely perceptible curve, giving their columns an entasis, as it is termed, or a slight outward swelling near the middle; which principle of construction was effected by means of certain fixed rules. The columns also, instead of being vertical, had a slight inclination inwards, and their pavements, and the platforms on which the temples stood, were constructed with a very slight rise in the centre. Mr. Pennethorne discovered the existence of these curves in 1837, and the truth of his statements was subsequently corroborated by Mr. Penness of these curves in 1837, and the truth of his statements was subsequently corroborated by Mr. Penness of these careful measurements of their proportions, which led to a discovery of the principles on which they were constructed. Of the three orders of Grecian architecture, the Parthenon at Athens (Fig. 1197), and the Temple of Minerva at Ægina (Fig. 37), may be cited as the best examples of the Doric order; the Erechtheum and Pancirosium at Athens, of the lonic order; and the choragic Monument of Lysicratos (Fig. 594), in the same city, as the most beautiful and almost the only existing pure Greek spe

Western Church. Several attempts were made on either side to effect a reconciliation, but in vain. The popes were anxious to effect a union in order to extend their dominions; and the emperors of Constantinople, when pressed by the Turks, attempted to obtain the assistance of the West by a promised restoration of the Eastern Church to that of Rome. At a later period attempts were made by some of the Protestant churches to come to an amicable arrangement with the Eastern Church but with like unsatisfactory results. The Greek Church denies the authority of the Pope, and maintains that the Church of Rome is not the only true Catholic church. It acknowledges no vicar of Christ upon earth like the Pope; disclaims infallibility, works of supererogation, and indulgences. It rejects purgatory, but admits of prayers for the dead; and forbids all kinds of carved images, but permits paintings, and pays a kind of secondary homage to the Virgin and saints. It denies suricular confession to be a divine command, but practised confession attended with absolution, and sometimes penance. It admits the seven sacraments, but baptism is performed by immersion of the body three times in water; and the communion of both kinds is practised with leavened bread, and the wine is mixed with water. The anointing of the body with the chrism is allowed to all sick persons as a means of restoring them to health, and purifying them from their sins. The secular clergy are permitted to marry but once, and only a virgin; and laymen are allowed to marry only three times. Like the Ro..an Catholic Church, it accepts tradition as well as the Bible, but differs from it, as well as from all Protestant churches, in maintaining that the Holy Ghost proceeds only from the Father, and not also from the Son. The ritual of the Greek Church consists almost entirely in outward ceremonies, preaching or religious instruction being rarely resorted to. Their fasts are more numerous and more atrictly observed than those of the Roman Catholics. The clergy are divided



Fig. 1198. - A GREEK CHURCH.

Fig. 1198.—A GREEK CHUEGE.

monks, as well as the nuns, who are less numerous, generally follow the rule of St. Basil, with the exception of those of mounts Sinai and Lebanon, who follow the rule of St. Anthony. One of the most celebrated convents is that of mount Athos. The total number of persons belonging to the Greek faith is estimated at about 65,000,000; of whom about 49,000,000 are in Russia, 12,000,000 in The Hornian islands, 125,000 in Montengro, and about 3,000 in Prussia. As regards its government, the Greek Church is made up of ten independent groups, numbering in all 279 bishoprics. 1. The Church of Constantinople, governed by a patriarch, having under him 136 bishops; 2. the Church of Alexandria, under the patriarch of Alexandria, who resides at Cairo, and has five bishops; 3. the Church of Antioch, with its patriarch and 17 bishops; 4. the Church of Jerusalem, with its patriarch and 14 bishops; 5. the Russian Church, with 90 bishops, governed by a synod; 6. the Church of the island of Cyprus, with four bishops; 7. the Austrian Greek Church, with 11 bishop; 8. the Church of Mount Sinai, with 1 bishops. Besides these the divisions of the Greek Church, which recognize each other as orthodox, there are a number of sects, particularly in Russia, which fully acknowledge the doctrinal oreece, with 24 architestops and oistops. Besides these the divisions of the Greek Church, which recognize each other as orthodox, there are a number of sects, particularly in Russia, which fully acknowledge the doctrinal basis of the Greek Church, but for various reasons keep aloof from it. The Greek Church predominates over all Russia, European Turkey, Greece, the Ionian Islands, and Montenegro. In Turkey, the patriarch of Constantinople has not only spiritual, but also a kind of temporal jurisdiction, as he is regarded by the Turkish law as the head of the Greek Christians, who have to paylim a yearly tribute. The Russian Greek Church asserted its independence on the fall of Constantinople, in the middle of the 15th century, when a patriarchate was established at Moscow. The patriarchate was abolished by Peter the Great, who organized a supreme court for the regulation of spiritual matters, to sit at the new capital of St. Petersburg. Since that time the Church of Russia has been virtually controlled by the Czar.

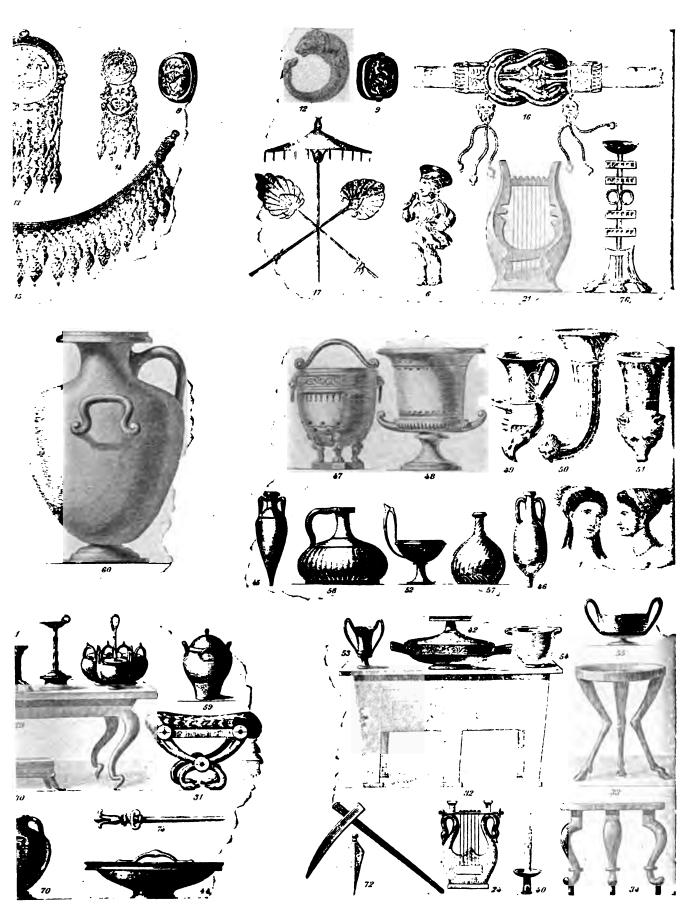
The United Greek Church is a section of this body, which, by the continued efforts of the Roman Church, were induced to acknowledge the supremacy of the Pope, while they, on the other hand, were permitted to abide by all the peculiar usages of the Greek Church which did not affect fundamental doctrines:—as the use of the Greek language in divine service, the reception of the Lord's supper in both kinds. &c., &c. Is Russia, almost all the members of the United Greek Church were induced, under the reigns of Catharine II. and Nicholas, to dissolve their connection with the Church of Rome; and at present this section of them is most numerous in Austria. Total est, strength. 1895, 98,000,000, over 70,000,000 being in Russia. For an account of the ceremonies, liturgies, &c., of the Greek Church, see Neale's History of the Ensire Church.

Greek Empsire, (Thee.) (Hist.) The G. E., also style Remeas or the Remeas and Remeas or the Remeas and Remeas or the Remeas and Remeas or the Remeas or (the Butcher), a Thracian of low birth, but elevated to the throne by the commander-in-chief, Aspar, who, being himself an Arian, would not venture to encounter the perils that sovereignty might have entailed on one of his religious views. Leo II., grandson of the former, succeeded, but died after a few months, in consequence of which the crown came into the possession of his father, Zeno (474-491), who was banished by Basiliscus (475, but who reascended the throne in 477. Though a weak and unpopular ruler, he contrived to retain his power in spite of several serious revolts. Ariadne, widow of Zeno, by her second marriage raised the courtier Silentiarius to the throne under the title of Anastasius I. (491-518). By the help of the Gotha, this monarch overthrew, after a six years' contest, the robber tribes of Mount Taurus. A the help of the Goths, this monarch overthrew, after a six years' contest, the robber tribes of Mount Taurus. A new enemy, however, now appeared on the Danube in the Bulgarians, against whose desolating raids Anastaius built the Long Wall, to protect the peninsula on which Constantinople lies. The war with the Persians also broke out anew during his reign, and religious traults often purpled the streets of Constantinople itself. After his death, the army raised Justinus I. to the throne. His nephew, Justinian (q. v.), succeeded (537-565), and became celebrated by his code of laws, and by the victories of his great generals, Belisarius (q. v.), and Narses, (q. v.) But the rapid decline of the empire after his death showed that he had not been able to give it any internal consolidation or vitality. It was denig the reign of Justinian that those pestilent contests of the Blues and Whites against the Greens and Reds (political factions so named from the colors respectively worn) first attained any consequence; and though the first disturbance was terribly chastised by Belisarius 532, they continued to distract the capital periodically own to the 7th control to the life to the 7th control the life of the 1 the capital periodically own to the 7th control the courter version. (political factions so named from the colors respectively worn) first attained any consequence; and though the first disturbance was terribly chastised by Belianius in 532, they continued to distract the capital periodically down to the 7th century. Justin II. (565–578), a way down to the 7th century. Justin II. (565–578), a way man, governed by his wife Sophia, yielded a part of Italy to the Longobards, was unsuccessful against the Persians, allowed the Avari to plunder the Danubian provinces, and ultimately became insane through vexation and anxiety. Tiberius, the capitain of the guard, was then made regent, and after the death of Justin II. received the imperial dignity. He ruled with mildness and prudence (578–582), purchased a peace with the Avari, concluded the war with Persia, and left as his successor the commander-in-chief Mauricius, whe reigned from 582 to 602. His niggardly treatment of the army caused a military insurrection, in which he was slain along with his son; and Phocas, one of his gearals, was elevated to the throne. Phocas proved a barruler. Through his monstrous vices, tyranny, and incapacity for government, the empire lapsed into still deeper anarchy. Suddenly, however, a deliverer appeared in the person of Heraclius (q. v.), son of the exarch or governor-general of Africa, who headed a conspiracy, marched to Constantinople, overthrew the tyrant, and ascended the throne, 610. But great as was the genius of Heraclius, he had to submit to twelve years of defeat before he could organise and discipline a victorious army. In 622 he opened those magnificent campaigns in which the power of Persia was crushed, and which, in the opinion of Gibbon, were equal to those of Scipior Heraclius, he had to submit to twelve years of defeat before he could organise and discipline a victorious army. In 622 he opened those magnificent campaigns in which the power of the Orthodox against the Monothelius, (q. v.) The empire was breaking asunder, and Heraclius, now worn out with the fatigues of war, had abandon

Digitized by GOOSI



GRECIAN ANTIQUITIES.
1. 2. Hair arrangement and diadems of the women, 3-16. Jeweiry: Bracelets, ankiets, 25-34. Household furniture. 35. Wash-basin. 30-38. Baskets. 39-44. Household utensl of different periods. 71. Golden vase from the tomb of a Scythian king ("outhern Russia). 721 Tools 73-74. Sceptres. 75. 76. Altars.



r-rings, breaches, girdles, etc. 17, Pans and parasol. 18, 19. Tollet accessories. 20. Tambourine. 21, 24. Lyres. 22. Plutes. 23. Luta. and table-ware. 45, 46. Amphorse. 47, 48. Mixing-bowls. 49-85. Drinking-versels. 86, 87. Oil-flasks. 58, 89. Pots. 60-70. Earthen vases 7, 78. Actors' masks.

insurrection. The next ruler was Constants, son of Constantine III., who ruled from 642 to 663, made himself odious by cruelty, and perished in an insurrection. His son, Constantine IV., Pogonatus (668-685), enforced a treaty of peace on the invading Arabe (675) by his successful use of the Greek fire in warfare. Justinian II. (685-711), son and successor of Pogonatus, was victorious in a war against the Monothelite Maronites; but was defeated by the Bulgarians (683), and by the Arabe (602). His cruelty caused an insurrection, at the head of which was Leontius, who, in 695, deposed him, cut off his nose (hence his surname \*Rhinothetia\*), and banished him to the Tauric Chersonese; in 705 he was restored to the throne, but adversity had taught him no wisdom. A part of his subjects revolted, and the king, abandoned by his army and by the Bulgarians, was assessinated in 711. With him the dynasty of Heracilus expired. Philippicus Bardanes (the leader of the last insurrection against Justinian II.) was next raised to the throne (711); but after having made himself odious by favoring the metaphysical tenets of the Monothelites, he was deposed and brutally deprived of eyesight (713). His successor, Anastasius II., prudently screened himself from a mutinous army by retiring into a monastery (716), and left the crown to Theodosius III., who abdicated in 717, when Leo, the Issurian, and general of the army of the East, did not recognize him, and marched with hostile intent to Constantinople. Leo (g. v.) himself ascended the throne in 717, and drove back the Arabs from Constantinople, but unhappily gave occasion, in 726, for that contest concerning the worship of images which rent the empire for more than a century. In 725, for that contest concerning the worship of images which rent the empire for more than a century. In 726, for that contest concerning the worship of images which rent the empire for more than a century. In 726, for that contest concerning the worship of images which rent the empire for more than a centur ing made an attempt to liberate himself from the influence of his mother and her paramour Stauratius, Irene barbarously caused her own son to be blinded (797). He died soon after this atrocity: and Irene, who had boldly conceived the design of marrying the Emperor Charlemagne, and thus uniting the east and west of Europe in one vast realm, excited the opposition which, is 802, placed her treasurer, Nicephorus, on the throne. Irene was banished to Lesbos, where she died in 803. Nicephorus, who fell in battle against the Bulgarians (811), was succeeded by his son Stauratius, who soon yielded the throne to his brother-in-law, Michael I., from whom it was taken by the Armenian general Leo whom it was taken by the Armenian general Leo V, a powerful ruler, who conquered the Bulgarians, but fall (820) in a conspiracy excited by his seal against image-worship. Michael II., the "Stammerer," was raised fell (\$20) in a conspiracy excited by his seal against image-worship. Michael II., the "Stammerer," was raised from a dungson to the throne, and ruled until \$20. In his reign, Crete and Sicily passed into the hands of the Arabs. Under the reign of his son, Theophilus, praised by the Byzantine historians for his love of justice (\$29-842). Theodors, widow of Theophilus and guardian of Michael III. (\$42-867), brought the controversy about images to a close at the Council of Nicca (\$42), when the worship of these was fully sanctioned and re-introduced. Theodors, having been banished to a convent by her son, the government was for some time held by Bardaa, uncle of Michael III., and after his assasination, by Basilius I., the "Macedonian," who caused Michael to be put to death, and afterwards ruled ably from \$67\$ to 886. But though on the whole successful against the Araba, the latter contrived to make themselves masters of Syracuse. His dynasty (the Macedonian) maintained itself on the Byzantine throne, with some few interruptions, until 1056. The reign of his son, Leo VI., the "Philosopher' (886-912), was not prosperous. The increase during the government of his son, Constantine VII., "Porphyrogenitus," who ruled mildly but feebly (912-959). Under his son, the dissolute Romanus II. (939-930), Crete was retaken from the Arabe by the vigor of his general, Nicephorus Phocas, who, on the death of the emperor. genitua," who ruled mildly but feebly (912-959). Unider his son, the dissolute Romanus II. (959-963), Crete was retaken from the Arabs by the vigor of his general, Nicephorus Phocas, who, on the death of the emperor, married his widow, Theophania. She, however, caused him to be murdered in 968, as she wished to marry John Tzimiskes, who ruled till 976, and, like his predecessor, was victorious against the Arabs and Bulgarians, and also the Russians, who about this time began to emerge from obscurity as an enemy of the Byzantine power. His successor, Rasilius II. (976-1025), the son of Romanus, conquered the Bulgarian kingdom, and attached it as a province to the empire, which it remained till 1186, when it again became independent. His brother, Constantine VIII. (1025-1028), did not resemble him. Romanus III. bett ascended the throne, but was assassinated by his wife Zoō, a profligate but crafty princess, who raised successively to the imperial dignity Michael IV. (1034), Michael V. (1041), and Constantine IX. (1042). Meanwhile, Russians and Arabs devastated the realm. In Asia, the Seijak Turks proved dangerous enemies; while in Lower lasy the Normans narrowed the Byzantine power to the possession of Otranto. After Constantine's death, in 1064, Michael VI., who was deposed by Isaac I., (Comnenus.) —With Isaac I., (Comnenus.) who same to the throne in 1067, the dynasty of the Comne-

nian emperors began. He retired to a monastery (1069), and was succeeded by Constantine X., whose widow, Eudocia, married Romanus IV., and raised him to the throne. Romanus was deposed in 1071 by Michael VII. (son of Constantine X.), who in his turn was dethroned by Nicephorus III. (1078), who reigned until 1081, when he was deposed by Alexius I., (Comenus, 9. v.) (1081-1118). This last reign was marked by the commencement of the Crusades. The successors of Alexius—his son, Karo-Johannes (1118-1143), and Manuel I. (1143-1180)—were able rulers, and victorious in their engagements with the Turks. Manuel's son, Alexius II., was murdered by his guardian, Andronicus (grandson of Alexius II.), who raised himself to the throne. He was the last prince of the Commenian dynasty, and fell in an insurrection excited by his own cruelty, 1185.
—After the first turbulent reign of Isaac II., who was blinded and deposed by his brother Alexius III., who took the surname of Commenus in 1195, the Crusaders restored Isaac to the throne (1233), and also crowned his son Alexius IV.; but the restless citizeus of Constantinople, elected Nicolas Kanabus, who took the title of Alexius V., and pursuing the usual bloody course, put his predecessor to death.—In 1204, the French and the Venetians (collectively named Latins) advanced on Constantinople, and captured the city, April 12, having made themselves masters of the European provinces. The whole was divided into four parts, of which the first, including the metropolis, fell to the lot of Baldwin, Count of Flanders, who was made emperor, and to whom the other participants in the expedition did featly for their respective shares. The Venetians obtained the coasts of the Adriatic and Ægean seas, a part of the Mores, and soveral islande; Bonifacius, Count of Monders, and soveral islande; Bonifacius, Count of Monders, and soveral islande; Bonifacius, Count of Monders, Philippopolis, and other places for French knights; while ane of the successors could strengthen the sinking empire. Baldwin nian emperors began. He retired to a monastery (1069), and was succeeded by Constantine X., whose widow, Eudocia, married Romanus IV., and raised him to the throne. Romanus was deposed in 1071 by Michael VII.

Greek'ess, n. A female Greek. (R.) Greek Fire, n. A composition of a highly combustibreek Fire, n. A composition of a highly combusti-ble nature, supposed to have been formed of maphtha, pitch, and sulphur. It is said to have been invented about 670, by Callinicius of Heliopolis, in the reign of Constantine III., and used with terrible effect against the fleet of the Saracens. It burst into a flame on ex-posure to the air, and burned under water. It was hurled upon the enemy from cross-bows and other en-gines of war. G. P. was used against the Crusaders at the slege of Acre under Richard I., and was a recog-nized means of defence before the invention of gun-powder.

reek'ish, a. Grecian; peculiar to Greece, or to the

Greek. Language and Literature. The car-liest inhabitants of Greece were the Pelasgi, who, accord-ing to Herodotus, spoke a barbarous or foreign tongue. They were silled to the Iramen tribes of the north of India; consequently, that element in the Greek lan-guage which exhibits an affinity for the Sanskrit, is the Pelasgic; and hence the strong resemblance in words and inflections, which is found to exist between the two languages. The Hellenes, or Greeks proper, subsequently migrated into the country, and the language of the abo-

riginal inhabitants came to be looked upon as barbarous. The Hellenes were an Ionian race, and their language is said to have had an affinity to the Persian. It is but right to state, however, that this account of the origin of the Greek language is not universally received, for the subject is so involved in doubt, that no certainty can be arrived at regarding it. The Greek is a branch of the so-called Indo-Germanic, or Aryan family of languages. It consists of three principal dialects, — the Æclic, Doric, and Ionic: to which, at a later period, was added the mixed Attic dialect; and besides these there were several minor dialects. The Doric was a rough, hard, broad dialect, with long a predominant over all theother vowels. It was spoken originally in the mountains of Thessaly, whence it travelled southward, and became the language of the greater part of the Peloponneus. It was purest in Mossenia, and softest in Syracuse and Agrigentum. Its centre was Sparts. It is found in the writings of Pindar, Theocritus, Bion, and Maschu. The Æolic was a more ancient dialect than the preceding, but was refined at an earlier period, and was less harsh than the Doric, atthough also broad and open. It was spoken north of the Isthmus of Corinth (with the exception of Megaris, Attica, and Dorie), in riginal inhabitants came to be looked upon as barbarous open. It was spoken north of the Isthmus of Corinth (with the exception of Megaris, Attica, and Doris), in the Æolic colonies of Asia Minor, and on some islands of the Ægean Sea. It contains some of the Pelasgic forms, and is to be found in the fragments of Sappho, Myrtis, and Alcæus. The Ionic is the softest and most musical of all the dialects. It abounds in vowels and diphthongs, and is partial to labials and linguals. It was the earliest cultivated of the dialects, and is that of Homer and other of the early authors, as Hesiod was the earliest cultivated of the dialects, and is that of Homer, and other of the early authors, as Hesiod, Herodotus, &c. It was spoken principally by the people of Attics and the Ionian colonies of Asia Minor. The Attics prang from the Ionic, from which at first it differed but little. It was developed principally after the Persian wars, and was brought to perfection by the poets, philosophers, and historians of Greece, who flourished after that time. It held a middle place between the hardness of Zeolic and Doric, and softness of the Ionic. It was harmonious and powerful in its expressions, concise and regwars, and was brought to perfection by the poets, philosophers, and historians of Greece, who flourished after
that time. It held a middle place between the hardness
of Æolic and Doric, and softness of the Ionic. It was harmonious and powerful in its expressions, concise and regular in its syntax. Æschylus, Sophocles, Euripides, Thucydides, Aristophanes, Plato, Demosthenes, and Iscorates,
have rendered it immortal. Grammarians afterwards
distinguished between the genuine Attic, as it exists in
these masters, and the Attic of common life, calling the
latter the common Greek, or Hellenic dialect; and even
the later Attic writers, posterior to the golden age of the
literature, were called Hellenes, or common Greek.

In his latter class are Aristotle, Theophrastus, Apollodorus,
Polyblus, Plutarch, and others, many of whom, however, wrote genuine Attic.—At what time this language
first began to be expressed in writing is a question of
much uncertainty. According to tradition, Cadmus the
Phosulcian introduced the alphabet into Greece about
1500 years B. O. To him sixteen of the letters of the
present alphabet are attributed; four, according to
Pliny, were introduced by Palamedes at the time of the
Trojan war, and four by Simoules of Ceos during the
Persian war. The ancient letters were all uncial, or
what we call capital; the present cursive or round letters occur first in inscriptions of the age Augustus, and
resemble the Coptic forms. The Greeks wrote originally
from right to left, afterwards alternately, the one line
from right to left, afterwards alternately, the one
line from right to left, afterwards alternately, the one
of civilization. It is rich in roots, flexible in the
formation of words, picturesque in its mode of expressing thought, highly plasticand euphonious; simple
and sublime in Homer, playful in Anacreon, majestic
in Æschylus and Pindar, noble in Sophocles, pathetic
in Euripides, elegant in Xenophon, subtile in the Sophiets, distinct in the Stoics, clear in Aristotle, and
fluent in lenic. It differs from the ancient Greek chiefly in the formation of the tenses, and in the termination of the nouns; but the difference between the two is not greater than between the Doric and the Attic dialects of ancient Greece. The tendency of late years has been to assimilate it more and more to the ancient tongue; and a good ancient Greek scholar will have little difficulty in making out a Greek newspaper of the present day.—The origin of Greek literature is lost in the darkness of antiquity. The earliest existing monuments of it carry us back to nearly 1000 years B. C., and even then we find the art of poetical composition existing in the highest perfection. The admirable structure and the wonderful anguage of the Homeric poems imply a long period of the art of poetical composition cannot make the wonderful language of the Homeric poems imply a long period of antecedent culture. Although both the Ilisd and Odysey display traces of the infancy of the nation, and manifest a spirit of simplicity peculiar to the childhood of

the human race, yet the class of poetry under which they fall appears in them at its full maturity; all the laws which reflection and experience can suggest for the epic form are observed with the most refined taste; all the meass are employed by which the general effect can be heightened; nowhere does the poetry bear the character of a first easy or an unsuccessful attempt at some higher portage and the state of the character of a first easy or an unsuccessful attempt at some higher portage and the state of the character of a first easy or an unsuccessful attempt at some higher portage and the state of the character of the cha

sitions that belong to this age were equally distinguished by their appropriate excellence. In history we have Thucydides, burn 471 B.C., whose work on the Peloponnesian war is not only the first specimen of what has been called philosophical history, but remains unsurpassed down to the present time. The historical works of Xenophon, born 447 B.C., though not equal to that of Thucydides in vigor of coloring and depth of reflection, are yet adorned with every grace of narrative and description. In philosophy, to which the teachings of Socrates, born 428 B.C., gave a great impulse, we have the writings of Plato, born 428 B.C., and his pupil Aristotle, born 384 B.C. Plato was endowed with a williant imagination, and loved to sour into the lughest regions of speculation; while Aristotle was a student and observer, agination, and loved to soar into the highest regions or speculation; while Aristotle was a student and observer, practical results being the object of his investigations, its never entered the world of ideas with Plato, but everything he wrote embodied the results of careful and extensive observations, or comparison of observations at this works embrace the subjects of logic, rhetoric, physical metaphysics, natural history, and politics. Plato practical results being the object of his investigations. His were entered the world of ideas with Plato, but everything he wrote embodied the results of careful and extensive observations, or comparison of observations. His works embrace the subjects of logic, rhetoric, physics, metaphysics, natural history, and politics. Piato founded the Academic school, whose point of reunion was the Academy, on the Cephissus, north of Athens. Aristotic established the Peripatetic school in the Lyceum, near the Iliseus, on the opposite side of the city. Public discussion was the general rule in the Gr. republic. Solon, Plisistratus, Militades, Aristides, Themistocies, and Pericles were orators as well as legislators, counsellors, and generals. Pericles was the first to cultivate the art, and to adorn his mind with the teachings of philosophy, and general literary culture. The first rhetorical school at Athens was opened by Georgias of Leontine. Other sophists and teachers of rhetoric were Protagoras, Prodicus, Hippias, &c. Among the Athenian orators whose works are extant, in whole or in part, are Antiphon, Andocides, Lysias, Iscorates, Lycurgus, Hyperides, Æschines, Demastes, Demasthenes, and Dinarchus. Mathematics was now cultivated, and geography served to illustrate history. Astronomy is indebted to the lonic school, arithmetic to the Italian, and geometry to the Academic school, for many discoveries. As mathematicians, Theodorus, of Cyrens, Meton, Euctemon, Archytas, of Tarentum, and Eudoxus, of Chidus, were celebrated. Geography was particularly enriched by voyages of discovery, which were occasioned by commerce. The study of nature was likewise pursued by the philosophers; and the healing art, hitherto practiced by the Æcleplades in the temples, was raised to a distinct science by Hippocrates. After the death of Alexander, although literature still continued to be cultivated in Greece, yet, till the Roman conquest, the principal seat of letters and science was Alexandria; and this period is called the Alexandrian age

Greece, chieny in the department of education, in which the publications have been innumerable. Works of distinguished merit have signalized the names of Tricoupi, the Rangabes, Sontsos, Asopios,—the History of Greek Literature, by the latter, challenging a fair comparison with similar works in other countries.

Free ley, Horacs, an American journalist and author, B. at Amherst, N. H., in 1811. About 1825, his parents having removed to Vermont, Horace, who had always been a lover of books, obtained employment as an apprentice in a printing-office, and in Aug., 1831, arrived at New York, where he secured occasional work as a journeyman printer in various offices. In 1834, in partnership with Messrs, Winchester and Gibbett, G. starter The New Yorker, a weekly literary journal, which, after several years' trial proving unprofitable, was abandoned, and in 1841 he commenced the publication of the New York Tribune, a journal which has been eminently successful. In 1848, G. was chosen to fill a vacancy in the

30th Congress, and served through the short time pre-ceding Gen. Taylor's inauguration; in 1851 he visited Europe, and was chosen chairman of one of the juries of the Great Exhibition in London, and afterward pub-Europe, and was chosen chairman of one of the juries of the Great Exhibition in London, and afterward published an account of his travels. G. was the author of a collection of addresses, essays, &c., published under the title of Hists toward Reforms, and of A History of the Struggle for Stavery Extension or Restriction in the Union cause during the Civil War, of which he wrote a history entitled The American Confict, published in 1864 and 1867. He afterward wrote his autobiography, under the title of Recollections of a Buny Life, which appeared in 1868. In 1872, G. was nominated by the Democratic party a candidate for the Presidency in opposition to Gen. Grant, but he failed to be elected. Died Nov. 29, in the same year.

Green's, in Colorado, a post-town, cap. of Weld co., on 3 R. R. lines, 52 m. N. E. of Denver. Pop. (1897) 2,700. Greeley. in Kansas, a post-village of Anderson co. Pop. (1895) 514.

Green's, one, m. The rose-campion.

Green, a. (comp. GREENER; super. GREENERST.) [A. S. grene; Low Ger., Dan., and Swed. grön; Du. groen; Ger. grön. The root is found in O. Ger. größn, A. N. greens, to become green.] Having the color of growing plants; being of the color of herbage and plants when growing; verdant; of a color between blue and yellow; smerald.—New; fresh; recent; vigorous; full of life; undecayed; as, a green old age.

"Our green youth copies what gray sinners act."—Dryden.—Unripe; immature; as, green fruit, green grees, &c.—Half raw; not thoroughly roosted.—Immature in age

-Unripe; immature; as, green fruit, green green, &c.—
Half raw; not thoroughly roasted.— Immature in age
or judgment; young; inexperienced; raw; awkward;
gauche; as, a green hand, a green youth.—Wan; of a
sickly, pale-green color; as, "the green-sickness." (Garth.)
—Unseasoned; not dry; possessing its natural juices;
as green timber. as, green timber.

as, green timber.

"Dry wood is more fragile than green."—Bacon.

"Dry wood is more fragile than green."—Bacon.

"It color of growing herbage or plants; a hue betwixt green and yellow.—A grassy plat or plain; a piece of ground covered with grass or herbage; as, a bowling-green. "O'er the smooth enamell'd green." (Millon.)—Fresh leaves, wreaths, or branches of trees or verdure; —generally in the plural.

"The Grant green, Leet. The proper to blad."—Therefore

The fragrant greens I seek, my brows to bind."-Drye

pl. (Chokery.) The leaves and stems of young plants, dressed and prepared for food; green vegetables; as, bacon and greens.
G. colors. Green, one of the prismatic colors, produced

bacoa and prepare.

G. colors. Green, one of the prismatic colors, produced by combination of blue and yellow rays, is very common in the vegetable kingdom, but very rare in the mineral. There is only one metal, copper, which affords in its combinations the various shades of green in general use. The other metals capable of producing this color are, chromium in its protoxide, pickel in its hydrated exide, as well as its salts, the seleniate, arseniate, and sulphate; and titanium in its prussiate. G. pigments are prepared also by the mixture of yellows and blues; as, for example, the green of Rimman and of Gellert, obtained by the mixture of cobait-blue and flowers of zinc: that of Barth, made with yellow lake, Prussian blue, and clay; but these paints seldom appear in the market, became the greens are generally extemporaneous preparations of the artists. Mosniain G. consists of the hydrate, oxide, or carbonate of copper, either factitious, or as found in nature. Brences or Brunssoick G. is a mixture of carbonate of copper with chalk or line, and sometimes a little magnesia or ammonia. It is improved by an admixture of white lead. It may be prepared by adding ammonia to a mixed solution of sulphate of copper, and alum. Frise G. is prepared with sulphate of copper, made by mixing a solution of acetate or sulphate of copper, with arsenite of potash. It is, in fact, Scheele's G. Sap G. is the inspissated juice of buckthorn-berries. These are allowed to ferment for 8 days in a tub, then put in a press, adding a little alum to the juice, and concentrated by gentie evaporation. It is lastly put up in pigr' bladders, where it becomes dry and hard. Schwerisyref C. see Schweinvur. Verona G. is merely a variety of the mineral called green earth.

Greens, in Historia, a township of Grant co.

mineral called green earth.

Green, in Illiaois, a fiourishing township of Woodbricounty.

Green, in Illiaois, a township of Grant co.

—A township of Hancock co.

—A township of Marshall co.

—A township of Moble co.

—A township of Noble co.

—A township of Noble co.

—A township of Majons, a township of Mecosta co.

—A township of Alpena co.

Green, in Missouri, a township of Platte co.

Green, in Osio, a township of Mahoning co.

—A township of Summit co.

—A township of Summit co.

Green, in Wisconsis, a S. county, bordering on Illinois; area, abt. 576 sg. miles. Risers. Pekatonica and Sugar rivers. Surface, bruken and hilly; solf, fertile. Miss. Lead and limestone. Cap. Monroe. Pop. (1885) 23,420.

Green hacks, s. A name which, from its color, was popularly given to the paper-money first issued by the United States Government in 1862.

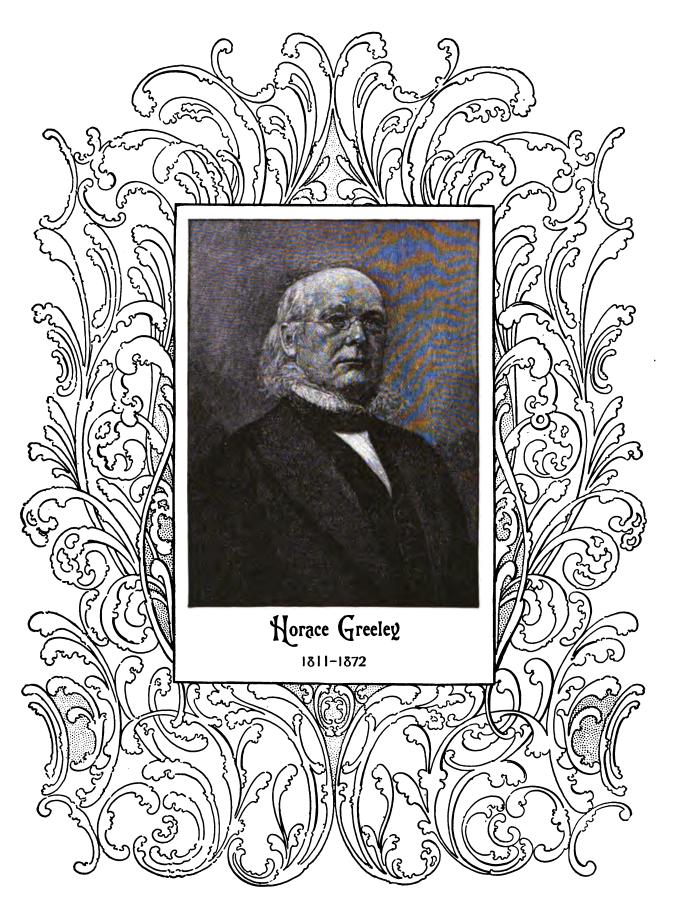
Green'backville, in Virginia, a post-town of Ac

comac county.

Green Hank, in Pransylvania, a P. O. of Lancaster co.

Green Bank, in New Jersey, a post-village of Burlington co., on the Mullica river, about 35 m. S. S. E. of Mt. Holly.

Green Bay, in Jose a post-township of Clarks county. Digitized by



Green Bay, in Alabama, a post-office of Covington co. Green Bay, in Michigan and Wisconsin, a considerable arm of Lake Michigan. It receives numerous rivers besides the surplus waters of Winnebago lake by the Fox river, and extends from Brown co., in Wisconsin, to Delta co., in Michigan. It is 100 miles long and averages 25 miles in width. Its depth is said to exceed

Green Bay, in Virginia, a P. O. of Prince Edward co. Green Bay, in Wisconsia, an important city, cap. of Brown co., at the mouth of Fox river, and at the S.W. extremity of Green bay, about 113 miles N. of Milwaukee; has very extensive manufa, including several breweries, saw mills which produce upwards of 150,000,000 feet of lumber yearly, cooperage works, flour and planing mills, cigar factories, etc. Being located on one of the best hariors of the Great Lakes, this city, enjoys a large and increasing shipping trade. Pop. (1895) 18,290.

(1895) 18,290.

Green'bone, s. (Ichth.) See Garrish.

Green'borough, in New York, a pust-village of Oswego co., about 170 miles W.N.W. of Albauy.

Green'-brier, s. (Bot.) See Smillay.

Greenbrier, in Ohio, a post-office of Mouroe co.

Greenbrier, in Pensylvania, a post-office of North

nbrier, in Tennessee, a post-village of Robe

sou co.

Greenbrier, in West Virginia, a S.E. co., hordering on Virginia; area, about 1,050 sq. miles. Rivers. Greenbrier river, and some smaller streams. Surface, diversified by mountains and valleys; soil, fertile. Cap. Lewis-

by mountains and valleys; soil, fertile. Cap. Lewisburg. Pop. (1890) 18,034.

Greenbrier Meuntain, in West Virginia, a spur of the Alleghenies, in Greenbriar and Pocalioutus cos. Height, over 2,000 feet.

Greenbrier River, in West Virginia, rises in the N. part of Pocahontas co., and, flowing a general S.W. course through Greenbrier co., enters the Kanawha river, about 35 miles above Fayetteville. The mount is 1,333 ft., and the source about 1,500 ft. above sea level.

1333 ft., and the source about 1,500 ft. above sea level.

Green'-broom, Green weed, a. (Bot.) The Genista factoria. See Griera.

Green'bunk, in Rew York, a township of Westchester co., on the Hudson river, about 130 miles S. of Albany.

Green'bunk, in Georgia, a post-office of Walker co.

Greenbunk, in Ilisois, a post-village and township of Warren co., 37 miles N.W. of Springfield.

Greenbunk, in Ilisois, a village of Warren co., about 10 miles from Des Moines.

Greenbunk, in Maise, a post-town of Penobscot co. Pop. (187) about 570.

Greenbunk, in Maise, a post-town of Penobscot co. Greenbunk, in Machigan, a township of Clinton co.

Greenbunk, in Maise, a post-town of Penobscot co. Greenbunk, in Machigan, a township of Clinton co.

Greenbunk, in Maise, a post-town of Penobscot co. Fost (187) about 570. is a branch of that of Albany. Pop. (1897) about 8,000. Hudson river, opposite and pranch of that of Albany. Pop. (1897) about 8,000.

ireem bunsh, in Ohio, a village of Brown co., about 90 miles S.S.W. of Columbus.

mnies S.S.w. of Columbus.

A post-village of Preble co., 20 miles S. W. of Dayton.

Greenbush, in Wiscossia, a post-village of Sheboygan co., about 2 miles E. of Fond du Lac.

Green Camp, in Ohio, a post-village and township of

marion co.

Green'castle, a fort and harbor of Ireland on the
coat of Donegal, Ulster, about 4 miles N.E. of Moville.

It is a considerable fishing station.

Greeneatle, in Indiana, a city, cap. of Putnam co., on 3 railroad lines, 32 miles W.S.W. of Indianapolia. Seat of De Panw University. Has extensive manuf. of Seat of De Panw University. Has extensive manuf. of lightning-rods, carriages, pumps, lumber, &c., there are stone quarries near by; shipments are largely grain and live stock. Pop. (1835) 4.390.

Greencastle, in fosco, a post-office in Jasper co.

—A township of Marshall co.

Greencastle, in Missouri, a post-town of Sullivan co., about 16 miles N. E. of Milan. The rallroad station is Carta, on the Q. O. & K. C. R. B.

Greencastle, in Ohio, a post-office of Fairfield co.

Greencastle, in Passeylvania, a post-borough of Franklin co., 11 miles S.W. of Chambersburg. Pop. (1897) about 1,850.

Green Cave Springs, in Florida, a post-town, cap. of Clay co. Pop. (1897) about 1,200.

Green Greek, in Ohio, enters the Sandusky river in Sandusky co.

Sandusky co.

A township of Sandusky co.

—A township of Sandinsky co.

Green Creek, in New Jersey, a P. O. of Cape May co.

Green Creek, in New Jersey, a P. O. of Cape May co.

Green Greep, a. A crop of green vegotables, such as
artificial grasses, mangold-wurzel, turnips, etc.

Green Galle, in Ilissois, a village of Marion co., about
82 miles E. of St. Louis, Mo.

Greendalle, in Penangivania, a P. O. of Armstrong co.

Greendalle, in Penangivania, a P. O. of Armstrong co.

Greendalle, in Penangivania, a P. O. of Armstrong co.

Greendalle, in Penangivania, a P. O. of Armstrong co.

Greendalle, in Penangivania, it is one of the
state generally level; soil, fertile. It is one of the
richest and most populous counties in the state. Cap.

Entaw Em. (1801) 52 007

cowjec, generally level; soul, ferfile. It is one of the richest and most populous counties in the state. Cop. Eutaw. Pop. (1890) 22,007.

Freeme, NATHANIEL, an American revolutionary general, born at Potowhommet, Warwick co., B. I., in 1742. His father was a preacher in the Society of Friends. Young G's school-education was of the simplest and most limited above the both but to the countied the state of the simplest and most limited character; but by his own industry he soon acquired a tolerable knowledge of the principal branches of an Englsh education, including history and mathematics. He made some progress in the study of law; he also early evinced a decided predilection for books treating on the art of war. On the commencement of the troubles between the colonies and Great Britain, he volunteered as a private (1774); but the following year he was chosen, by the Assembly of Rhode Island, gen-eral of the contingent furnished by that colony to the army near Boston. He was made major-general in the Continental army in 1776, and accompanied Washington Continental army in 1776, and accompanied Washington on his brilliant expedition into New Jersey near the close of the same year. He performed a prominent part in the disastrous battle of Germantown (1777) on which occasion his courage and skill did much toward retrieving the reputation of the American arms. In 1778 he was appointed quartermaster-general, and for more than two years he fulfilled the duties of that position with faithfulness and ability. After the defeat of Gen. Gates (1780) at the battle of Camden, S. C., G. was appointed to the

GREE

appointed to the southern army, which he found demoralized, and in a state of utdestitution. His presence, His presence, however, soon restored the confidence of the troops. Through his skilful strategy, even his reverse produced the fruits of victory. In March, 1781, he was defeated by Lord



Fig. 1199 .- NATHANIEL GREENS.

feated by Lord Cornwallis in the hard-fought battle of Guilford Court Cornwallis in the hard-fought battle of Guilford Court House, but the English general derived no permanent adjantages from this success. Cornwallis having retreated into Virginia, G. defeated, after a severe action (September, 1781), the forces of Col. Stewart at Entaw Springs, and thereby put an end to the British power in South Carolina. This was the last tattle in which Gen. G. was engaged, although he held his command till the end of the war. He died from the effect of a sunstroke at Mulberry Grove on the Savannah River, in 1786. He is admitted by universal consent to have been, among the American generals, second only to Washington in military talents, and in the important services which he rendered to his country. which he rendered to his country.

Greene, Gronge Washington, grandson of the above, a writer and historian, born in Rhode Island, 1800. His best known works are; Historical Studies (1860); Biographical Sketches (1860); Historical View of the American Revolution (1865); Life of Nathaniel Greene (1867); History of Rhode Island (1871). Was U. S. Consul at Rome (1837-45); professor of History at Cornell University (1872). Died in 1883.

Greene, in Arkansas, a N.N.E. co, bordering on Missouri; area, about 591 sq. m. Rivers. Cache, St. Francis, and Anguille rivers. Surface, generally level; soil, fertile. Cap. Paragould. Pop. (1897) about 15,000.

Greene, in Georgia, a N.E. central co.; area, about 361 sq. m. Rivers. Oconee, Ogrechee, and Appalachee rivers. Surface, hilly; soil, not very fertile. Cap. Greensborough. Pop. (1890) 17,061.

Greene, in Ilinois river, and Macoupin and Apple creeks. Surface, generally level; soil, fertile. Capital, Carrollton. Pop. (1890) 23,791.

Greene, in Isdiana, a S.W. co.; area, about 540 sq. m. Rivers. West Fork of White River, and some smaller streams. Surface, diversified; soil, fertile. Mis. Iron ore, and bituminous coal in abundance. Cap. Bloomfield. Pop. (1890) 24,379.

A post-township of Jay co.

A township of Madison co.

A township of Revenuel smaller streams. Surface, undulating; soil, fertile. Cap. Jefferson. Pop. (1896) 16,299.

Greenee, in Kentucky, a central co.; area, abt, 275 sq. m. Greeme, GEORGE WASHINGTON, grandson of the above a writer and historian, born in Rhode Island, 1800. Hi

16,299.

Greene, in Kontsoly, a central co.; area, abt, 275 sq. m. Rieers. Green river and Barren Fork, Russell's, Robinson's, and Meadow creeks. Surface, undulating; soil, fertile. Cap. Greenaburg. Pop. (1890) 1,463.

Greene, in Maiss, a post-town of Androscoggin co., on Androscoggin river, abt. 41 m. N. by E. of Portland. Pop. (1897) about 900.

Greene, in Mississippi, an S.E. co., bordering on Alabama; area, about 820 sq. m. Rieers. Chickamswha and Leaf rivers. Surface, level; soil, not very fertile. Cap. Leakesville. Pop. (1890) 3,900.

Greene, in Missouri, a S. W. co.; area, about 688 sq. m. Rieers. Niangua, Pomme de Terre, James and Sac rivers, and Finley creek. Surface, generally level; soil, fertile. Miss. Lead and limestone. Cap. Springfield. Pop. (1897) about 52,000. Miss. Lead an about 52,000.

about 52,000.

A village of Bollinger co.

Greene, in New Jersey, a township of Sussex co.

Greene, in New York, an S.E. co.; area, about 660 sq.

m. River. Hudson and Schoharie rivers, and Catakill
and other smaller crocks. Eurjace, broken and mountainous, the Catakill mountains traversing its whole
length; soil, fertile in the valleys. Cop. Catakill. Pop.
(1890) 31.598.

A post-village and township of Chenango co., on the Chenango river, about 56 miles S.S.E. of Syracuse. Pop. (1897) about 1,170.

Pop. (1897) about 1,170.

#reeme, in North Carolina, an E. central co.; area, abt.

### Streams. Surface, level; soil, fertile. Cap. Snow Hill.

Pop. (1890) 10,039.

#### Pop. (1890) 10,039.

#### Pop. (1890) 10,039.

Greene, in Ohio, a S.W. co.; area, about 416 sq. m. Bicers. Mad and Little Mismi rivers, and Crear's and Massey's creeks. Surface, level; soil, very fertile. Cop. Xenia. Pop. (1897) about 30,000.

—A township of Ashland co.

A township of Clark co. A township of Harrison co.

—A township of Harrison co.

—A township of Hocking co.

—A village of Licking co.

—A township of Monroe co.

—A township of Rose co.

—A township of Shelby co.

—A township of Trumbull co.

—A township of Trumbull co.

—A township of Wayne co.

Greeme, in Pennsylvania, a S.W. co., bordering on W. Virginia; area, about 640 eq. m. Effects. Monngahela river, and Wheeling, Dunkard's and Ten Mile creeks. Surface, broken and hilly; soil, fertile. Miss. Bituminous coal in abundance. Cap. Waynesburg. Pop. (1890) 28,935. 28.935.

28,935.

—A township of Beaver co.

—A township of Erie co.

—A township of Tanklin co.

—A township of Franklin co.

—A township of Greene co.

—A township of Inancaster co.

—A township of Indiana co.

—A post-village of Lancaster co.

—A township of Mercer co.

—Greeme, in Rode Island, a post-office of Kent co.

Greeme, in Tensessee, an E. co., bordering on North
Carolins; area, about 588 sq. m. Riners. French, Broad,
and Nolachucky rivers. Eurface, much diversified; soft,
fertile. Miss. Iron in abundance. Cop. Greenville. Pop.
(1890) 28,614.

Greene, in Virginia, a N. central co.; area, about 200

(1890) 28,614.

Greene, in Virginia, a N. central co.; area, about 200 sq. m. Rivers. Rapidau river and other smaller streams. Surface, diversified; sod, fertile. County-town, Stanards-ville. Pop. (1890) 5,622.

Green'-earth, m. (Mim.) Same as SELADONITE (q.v.).

Green'-eyed (-id), a. Having green eyes;—hence, jealous, suspicious.

"Beware, my lord, of jealous; it is the green-eyed monter."

Green'field, in Arkanea, a village of Craighead co, about 60 miles E. by N. of Batesville.

Greenfield, or Greenfield Hill, in Connecticut, a village of Fairfield co, about 56 miles N.E. of New See FAIRFIELD. York.

Sylings of Fairfield.

Greenfield, in Georgia, a village of Colquitt co.

Greenfield, in Hissois, a city of Greene co., on C., B.

& Q. R. B., 30 miles S. of Jacksonville; in a farming
and grazing region. Pop. (1897) about 1,460.

—A village of Grundy co.

Greenfield, in Indiana, a city, cap. of Hancock co., on
the P., C., C. & St. L. R. R., 21 miles E. of Indianapolis;
has rolling mill and other manuf., and a good local
trade. Pop. (1897) about 4,500.

—A township of Lagrange co.

Greenfield, in Indiana, post-township of Adair co.

—A township of Jones co.

—A township of Orange co.

Greenfield, in Iosea, a post-township of Adair co.

—A township of Jones co.

—A township of Warren co.

Greenfield, in Massack, as township of Elk co.

Greenfield, in Massack, as township of Penobscot co.

Greenfield, in Massack, as post-town and township, cap, of Franklin co., between the Green and Connecticut rivers, about 100 m. W.N.W. of Boston. The village is well laid out and contains some handsome and substantial public buildings. Massaf, Cassimeres, tools, &c. Pop. (1885) 6,229.

Greenfield, in Missigns, a post-township of Wayne co.

Greenfield, in Missigns, a city, cap. of Dade co., on the W. fork of the Sac river, about 24 miles W.N.W. of Springfield. Pop. (1887) about 1,000.

Greenfield, in Newada, an unimportant village of Esmeralds co.

Greenfield, in New Hampshire, a post-township of

Greenfield, in New Hampshire, a post-township of Hillsborough co. Pop. (1890) 607. Greenfield, in New York, a township of Saratoga co.

A post-office of Ulster co.

| reemfield, in Ohio, a township of Fairfield co.

-A township of Gallia co. Gr

—A township of Gallia co.

—An important manufacturing town of Highland co., on

B. & O. and Ohio So. R. Rs., 24 miles W. of Chillicothe.

—Pop. (187) about 2,840.

—A township of Huron co.

Gircenfield, in Ремьяуісаніа, a post-township of Eric

A township of Lackawanna co.

CO.

A township of Lackawanna co.

A village of Mercer co, about 5 miles N.E. of West Middlesex.

A borough of Washington co.

Greenfield, in Tensesce, a post-village of Weakley co. Pop. (1897) about 960.

Greenfield, in Virgunia, a post-village of Nelson co., about 90 miles W. N. W. of Richmond.

Greenfield, in Wicconsin, a township of Lacrosse co.

A township of Milwaukee co.

A township of Murroe co.

A township of Sauk co.

Greenfield ('en' fre, in New York, a post-village of Saratoga co., about 37 miles N. by W. of Albany.

Greenfield Landing, in Missouri, a village of Mississippi co. sissipni co

land, where it is also called the Green Linnet, and Green Grosbeak. It imitates the songs of other birds.

Green Fire, n. (Chem.) Combustion attended with a green flame. The following compound will burn with a beautiful green light: 10 grains chlorate of baryta, mixed with 10 grs. of intrate of baryta in a mortar, and then with 12 grs. of sulphur on paper. The compound should not be kept, as it is liable to spontaneous combustion.

bustion.

Green'ford, or Green Village, in Ohio, a post-village of Mahoning county, about 158 miles N.E. of Columbia

Green'gage, n. A choice variety of plum, having a green pulp in its ripe state.

Green Gar'den, in Illinois, a post-township of Will

Green Gar'den, in Pennsylvania, a post-office of

Green'-grocer, s. A vender of green vegetables and fruits.

and fruits.

Green Grove, in Kentucky, a P. O. of Cumberland co.
Green Grove, in Penna, a P. O. of Lackawanna co.
Green'-band, n. One who is raw and inexperienced;
a green-horn; ns, he is a green-hand at the work.
Green Ha'ven, in New York, a P. O. of Dutches co.
Green Heart, n. (Bot.) See NECTANDRA.
Green Hill, in Georgia, a post-office of Stewart co.
Green Hill, in Missouri, a village of Montgomery co.
Green Hill, in North Carolina, a P. O. of Rutherford
Co.

Green Hill, in Ohio, a post-office of Columbiana co. Green Hill, in Tennessee, a post-office of Wilson co. Green Hill, in West Virginia, a P. O. of Wetzel co. Green hood, n. A state of greenness or immaturity.

Green Hood, n. A state of greenness or immaturity.

Green'-horn, n. A raw, inexperienced person; one who is new to the world and its ways.—A newly-arrived immigrant in the U. States. (Vulgar.)

Green'-house, n. (Hort.) A building appropriated to the cultivation of such exotic plants as do not require much artificial heat, but cannot endure the open air, at least in the colder part of the year. As a green-house does not require artificial heat during summer, the roof is sometimes made capable of being then removed; more generally, many of the plants are carried out into the open garden. Air is freely admitted into the G.-H. in fine weather, even in winter, during the warmest part of the day, care being taken that the plants are not exposed to frost, nor to ungenial and chilling winds. G.-H. are sometimes appropriated chiefly to particular genera of plants, under such names as Heathery, Camellia-house, &c. According to the present use of the term, a G.-H. differs from a conservatory only in the plants being in pots, which are very generally placed on the shelves of stages, having a slope not very different from that of the roof.

roof.

Green ing, s. A sort of green apple.

Green ish, a. Somewhat green; having a tings or tint of green; a. "greenish locks."—Sprace.

Green ish, a. Somewhat green; having a tings or tint of green; a. "greenish locks."—Sprace.

Green ish ness, s. State or quality of being greenish. Green isl'amd, a small island of British N. Americs, in Hudson's Strait, abt. 100 m. N.W. of Cape Chudleigh.

Green isl'amd, an island of Lower Canada, in the St. Lawrence River, abt. 116 m. below Quebec.

Green isl'amd, an island of Jamaica, W. Indies, abt. 8 m. 8.W. of Lucas.

8 m. 8.W. of Lucea. reem Isl'and, in Alaska, a small island in Princ

William Sound.

William Sound.

Green Isl'and, in loses, a post-office of Jackson co.

Green Kay. See Cayo Verde.

Green Lake, in Minnesots, a post-office of Kandiyohi

CO.

Green Lake, in Wisconsis, a lake in Green Lake co.
It covers an area of 16 sq. m.

—A central county; area, about 360 sq. m. Ricers. Fox, Grand, and White rivers, besides Green and Pocawa lakes. Surface, undulating; soil, very fertile. Cop. Dartford. Pop. (1893) 15,839.

—A post-village and flourishing township of Green Lake.

co.

Green Isand, an extensive country of N.E. America, to the N. of Davis's Straits: It is the most northern land of the western hemisphere. On the W. it is bounded by Davis's Straits and Baffin's Bay; on the N. by some unknown ocean, or by the north pole; on the E. by the Atlantic Ocean.—Gr. Dr. Dr. Ocean; and on the S.E. by the Atlantic Ocean.—Gr. Dr. Dr. Ocean; and on the S.E. by the Atlantic Ocean.—Gr. Dr. Ocean; and on the S.E. by the Atlantic Ocean.—Gr. Dr. Ocean; and on the S.E. by the Atlantic Ocean.—Gr. Dr. Ocean; and divides it into K. and W. Greenland. The coasts are surrounded by many thousand islands of different sizes, on which the inhabitants frequently fix their residence, on account of their good situation for see-game. In the inlets and bays which intersect the coast, immense masses of ice are accumulated during a series of years, which, being loosened during the heat of summer, lose their points of support from the shore, and being set adrigh by the currents, embarrass the navigation of the polar seas, and become the terror of the mariner. These masses of ice are formed both of fresh and salt water, and sometimes rise more than 500 feet above the surface of the water. Cimate. Owing to its northern position, G. is exposed to all the rigors of the forcen sone. During summer, the heat, particularly in the islets, is very great; insomuch that, in the month of July, Fabrenheit's thermometer sometimes rises to 840 in the shade. Zoll. The animals which are most abundant are white harrs, reindeer, doer resembling wolves. Green'land, an extensive country of N.E. America, to in the shade. Zool. The animals which are most abunin the shade. Zoll. The animals which are most abundant are white hares, reindeer, dogs resembling wolves, Arctic foxes, and white bears, which are very fierce and mischlevous. Ravens are pleutiful, and esgles of a very large size, falcons, with other birds of prey. The seas abound in whales, seals of different kinds, sea-cows,

sword-fish, porpoises, halibut, turbot, cod, haddock, with various other sorts of white fish. Inkab. The Greenlanders, or Esquimaux, of both sexes are frequently shert, but often of full stature, and well proportioned, fat, and plump. They seem allied to the Mongolian race, and are often impoverished, depending on hunting and fishing for their subsistence. In their houses and manner of living they have the general habits of savages. In the 8, they grow a little corn, some potatoes and kitchen herbs. Fop., including Danes (1897) 9,750. Lat. between 59° 40° and 78° N.; Lon. between 20° and 76° W.—G. was first discovered by a Norwegian, between the 8th and 9th century. A colony was established, which continued to increase and thrive; and in a short time the country contained 12 parishes, 190 villages, 1 bishop's see, and 2 convents, under the jurisdiction of the archibishop of Drontheim. A colony had also been bishop's see, and 2 convents, under the jurisdiction of the archbishop of Drontheim. A colony had also been settled in Western G., which maintained a regular intercourse with Europe, and increased to four parishes containing 100 villages. The first-named colony was called the "Eastern," though both are now known to have been on the west coast. During the fifteenth century these colonies were depopulated by a plague called the "black death," together with the hostile attacks of the natives and a visit from a marauding fleet, said to have been British. Davis re-discovered the country in 1387 and the Danes re-established communication with the lost colonies. The commerce of G. is principally carried on with Denmark, to which it belongs and conthe lost colonies. The commerce of G. is principally carried on with Denmark, to which it belongs, and consists mostly of seal and whale oils, kryolite, and eiderdown. The recent explorations in G. of Nordenskjöld, Greely, Naissen, Peary, and others prove that the whole interior of G. is an icy desert, with no open water, and with elevations reaching 7,000 feet above the sea. See Abgule Charles, in West Virginia, a P.O. of Grant co. Green'landite, n. (Mis.) A black, brittle mineral, containing the columbate and tantalate of iros and manganes. Sp. gr. 54-65.

Green Lead Ore, n. (Mis.) Same as Pyromorphite (g. v.).

GREE

PHITE (q. v.). | reen' leaf, in *Minnesola*, a post-township of Meeker

PHITE (q. v.).

Green leaf, in Minnesota, a post-township of Meeker Go.

Green ly, adv. With a green or greenish color; newly; freshly; immaturely.

—a. Of a green color.

Green Mounts, in Pransylvania, a P. O. of Rockingham co.

Green Mountsin, in Virginia, a P. O. of Rockingham co.

Green Mountains, in the S. part of Schuyikill co.

Green Mountains, a considerable mountain range commencing in Hartford co., Connecticut, and extending N. through Massachusetts and Vermont into Lower Canada. Length, abt. 240 m. Their greatest elevation is in Vermont, where Mount Mansfield, or North Peak, rises to a height of 4,389 ft. Conneil's Peak, Shrowsbury Mountain, Mansfield, South Peak, Killington Peak, and some others, reach abt. 4,000 ft. The G. M. are the northern portion of the Appalachian chain, but they neither posses in so marked a degree the features of uniformity of elevation and parallelism of its ridges that characterizes the same chain further S., nor have they the abruptness and precipitous outlines of the granite summits of the White Mountains of New Hampshire. Its geological formation are the metamorphic slates, gnelss, quarts rock, limestone, &c., of the Laurentian epoch, the general range of which is abt. N. 15° E., with a prevailing dip of 30° to 55°. These give a smooth outline to the surface of the hills; and though the soil they produce is not generally fertile, the slopes are covered on the disappearance of the snow in spring with fine pastures of rich green grass, which may nave given to the mountains their name, though this is commonly retures of rich green grass, which may have given to the mountains their name, though this is commonly referred to the growth of evergreen forest-trees, as the hemlock, balsam, fir, spruce, pine, cedar, &c., which abound upon the poorest land and along the margin of the attention. the streams.

Quality of being green; viridity Green'ness. recent meas, a. Quanty of being green; viridity; verdancy; as, the greenness of a meadow.—Immaturity; unripeness; as, the greenness of fruit. "This prince's errors were excused by the greenness of his youth."—(Sidney.)—Freshness; vigor; newness.
"The picture of a man in the greenness and vivacity of his youth."

Green Oak, in *Indiana*, a post-office of Fulton co. Green Oak, in *Michigan*, a post-township of Living.

ston co. ireem'oek, a town and sea-port of Renfrewshire, Scot-land, on the Frith of Clyde, 19 m. N.W. of Glasgow. Manuf. Candles, soap, pottery, glass, sugar-refining, rope-making, canvas, &c. G. has a spacious and commodious harbor, and iron shipbuilding is largely carried on. Pop. (1885) 64,388.

Preen ock, in Arkansas, a village of Crittenden co., on the Mississippi River, abt. 135 m. E.N.E. of Little Rock.

Rock.

Green'ockite, n. (Min.) Sulphuret of cadmium.
Crystals hexagonal. Color various shades of yellow.
Nearly transparent. Sp. gr. 4.8. Comp. Sulphur 22-3,
cadmium 77-7. Occurs at Bishoptown, Scotland, and the
Ueberoth zinc-mine near Friedensville. Pa.
Greenore's, a promontory of Ireland, in the co. of Wexford, at the entrance of Wexford harbor.
Greenore, a promontory and light-house of Ireland,
on the coast of co. Louth, abt. 2 m. S.E. of Carlingford.
Green'ough, Horaro, an American sculptor, was a

on the coast of co. Louth, and 2 m. S.E. of Carlingford.

#reem'ough, HOARTIO, an American sculptor, was a
native of Boston, U. S. He was born in 1863, and after
completing his education, went to study sculpture at
Rome, where his first commission was from Feninger
Cooper, for whom he executed his Chanting Cheruba, the
first original group from the chisel of an American

sculptor. He afterward visited Paris, and then settled at Florence. He executed, under a government camission, a colossal statue of Washington, and a largeroup entitled *The Rescue.* He also made many portratbusts, among them one of Largerstand parish

group entitled The Rescus. He also made many portra-busts, among them one of Lafayette, and numeroz monuments. Died in 1852. Green ovite, s. (Mis.) A variety of Titanite (q.t.), of a red or rose-red color from the presence of manganes. Green Palain, in Virginia, a P. O. of Green ville co. Green Palain, in New York, a former post-village of Kings co., on Long Island, just N. of Williamsbergh; now the 17th Ward of Brooklyn and part of Greater New York. New York

Green Pond, in South Carolina, a post-village of Colleton co

Green port, in New York, a township of Columbia of A post-village and port of entry of Suffolk county, of Long Island, about 95 m. E. by N. of New York VIII. The village is well built, upon one of the best barbon of the coast, and commands a considerable trade. Pg. (1897) about 2,400.

(1897) about 2,400.

Green Prairie, in Missesota, a P. O. of Morriso ca

Green Ridge, in Missesota, a post-office of Pettis on.

Green Ridge, in New York, a P. O. of Richmond on

Green River, in Itaho, Wyoming and Itah, rices in

Oneida co. in the former State, and flowing SE into

Utah, it crosses the N.E. corner of Green River co, and

enters Wyoming; thence into Utah again, it turns to

the S.E. and S., and traversing Wassatch, San Pete, and

Beaver cos., joins the Grand river in Iron co., to form

the Colorado river, of which it is the largest branch.

Green River, in Illinois, enters Bock river in Henry

co.

Green River, in Ittisous, enters Mock river in near co.

—A post-village of Henry co., about 70 m. N.W. of Peoria. Green River, in Kentacky, rises in Lincoln co. and flowing a general S.W., W., and N. course through (asey, Adair, Greene, Hart, Edmondson, Butler, Oki, Muhlenburg, McLean, and Webster cos., enters the Ohio river in Henderson co. Length, about 300 m. It passes the Mammouth Cave in Edmondson co., and receives the Big Barren river in Butler co. At Telè's Bend, on this river, a smart action of several hours took place, July 4, 1863, between a body of Confederate raiders under Morgan, the famous cavalry leader, and about 200 Michigan troops under Col. Moore, in which the former were repulsed with a loss of more than 200 killed and wounded. Moore, being intrenched, lost only 6 killrd and 23 wounded.

Green River, in New York, a P. O. of Columbia co. Green River, in Yermoni and Massachusetts, rises in Windham co., of the former State, and flowing S. internally on the content of the co.

—A post-office of Windham co.

Green River, in Wyoming, a post-village, cap. of

Green River, in Wyoning, a post-village, cap. of Sweetwater co.

Green'-room, a. In a theatre, the retiring room allotted to the company of performers.

Green'samd, s. (Geol.) The name given to certain deposits, generally of the cretaceous period, and deriving its name from the presence of green particles of silicate of iron. They contain also soda, potash, and small quantities of phosphate of lime. It is commonly called mard, and is used extensively as a fertilizer.

Greens'borough, in Alabama, a post-village, cap. of Hale co., on Southern R.R., 50 m. W.N.W. of Selma. Seat of Southern University (Methodist). Pop. (18%) about 1,800.

almost 1.800.

Greensborough, in Arkansas, a post-office of Craig-

head co.

the Greensborough, in Georgia, a city, cap. of Greene y rethe co., on Ga. R.R., 84 m. W. of Augusta. Pop. (1897) 1,436.

Greensborough, in Indiana, a post-village and the complete of the complet

roline co., about 60 m. E. of Annapolia. Pop. 302. censborough, in Mississippi, a village of Webster Gr

Greensborough, in North Carolina, a thriving city, Greensborough, in North Carolisa, a thriving city, cap. of Guilford co., on Southern R.R., 48 m. 8W. of Dauville, Va. Has large iron and steel works; fron ore abundant in vicinity. Pop. (1897) about 4,500.

Greensborough, in Pensylvania, a post-torough of Greene co., on the Monongahela river, about 20 m. 8E of Waynesburg. Pop. (1897) about 500.

Greensborough, in Vermont, a post-township of Orleans co. Pop. (1890) 918.

Greensburg, in Indiana, a city. cap. of Decaur co. on C., C., C. & St. L. R.R., 47 m. S.E. of Indianapolis Pop. (1897) about 4,000.

Greensburg, in Indiana, a conjugate on C., C. & St. L. R.R., 47 m. S.E. of Indianapolis Pop. (1897) about 4,000.

Greensburg, in Kentucky, a post village, cap. of Greensburg, in Louisiana, a post-village, cap. of St. Helena parish, near Tickiaw river, about 40 m. N.E. of Baton Rouge.

Baton Rouge.

Greensburg, in Missouri, a pust-village and township of Knox co., about 10 m. N. of Edina.

Greensburg, in New Jersey, a former name of Witsurria, a post-office of Mercer co.

Greensburg, in Oido, a township of Putnam co.

—A village of Summit co.

—A post-village of Trumbull co., about 185 m. N.E of Columbus.

Columbus, in Pennsylvania, a post-borough, cap of Westmoreland co., on Penns. R.R., 31 m. E. of Pitubur, In a coal-mining, coke, and natural gas region; has important local manufactures and a good general trads. Pop. (1897) about 5,000.



Greens'burg, in W. Virginia, a village of Berkeley co. Greensburg Cross Roads, in Ohio, a village of

Greensburg Cross Roads, in Ohio, a village of Sandusky co.
Green'shamk, n. (Zoll.) See Totanus.
Green-sick mean, n. (Puth.) See Unionoms.
Green'stall, n. A greengroor's stall for the retailing of fresh vegetables, fruit, &c.
Green'stome, n. (Min.) A variety of trap-rock, composed of feldspar and hornblende, and having generally a greenish color, hence its name. It has a more or less comment structure—the community systals in or less compact structure—the component crystals in or less compact structure—the component crystals in one specimen being scarcely discernible with a pocket lens, while in another they form a course aggregated, and specimens exhibiting all the intermediate stages may be found. In the finest they are not so small and compact as in basalt. Its crystalline structure separates greenstone equally from the earthy tufas and the glassy pitchstones. It may become purplyritic from a portion of the feldspar forming into larger distinct crystals. In mathering, the distinguishing greenstone segments.

of the feldspar forming into larger distinct crystals. In weathering, the disintegrating greenstone assumes a dark-brown color, and exfoliates round limited centers, giving the rock an appearance as if it were composed of a number of large boulders.

Green's Cormers, in New York, a village of Oneida co., about 19 m. N. of Utica.

Green's Farmas in Consecticut, a village of Fairfield co., about 54 m. N.K. of New York.

Green's Fork, in Indiana, a township of Randolph co.—A post-office of Wayne co.

Green's Fork, in Indiana, a township of Randolph co.—Creen's Land'ing, in Maine, a P. O. of Hancock co.

Green's postd, an island and village of Newfoundland, in Bonavista bay, about 30 m. N.W. of Bonavista.

Greens'sport, in Alabama, a post-village of St. Clair co., on the Coosa river, about 120 m. N. of Montgomery.

Green Spring, in Del., a post-town of New Castle co.

Green Spring, in Del., a post-village of Seneca co.

Green Spring, in West Virginia, a post-office of Hampshire co.

Green Spring Furnace, in Maryland, a post-office of Washington co.

of Washington co.

Green Sul'phur Springs, in West Virgisia, a
post-office of Summers co.

Green'sward, n. Turi covered with green grass.

Green'sward, n. Indiana, a post-town of Howard co.,
about 56 m. N. by E. of Indianapolis.

Greentewn, in Ohio, a post-village of Stark co., about
10 m. N. of Cauton.

10 m. N. of Cauton.

Green Tree, in New Jersey, a village of Burlington co, about 12 m. E. of Camden.

Green Tree, in Penseylerski, a P. O. of Allegheny co. Green'mp, in Ilisiosia, a poet-office and township of Cumberland co., on Embarras river, about 110 m. E.S.E. of Springfield. Pop. of village (1897) 858.

Green'mp, in Keniscky, an extreme N.E. co., bordering on Ohio; area, about 352 sq. m. Rivers. Ohio and Little Sandy rivera, and Tygart's creek. Surface, broken, soil, lertile. Min. Iron and coal in abundance. Cap. Greenup. Pop. (1899) 11,911.

—A post-village, capital of the above co., on the Ohio river, about 131 m. E. N.E. of Frankfort. Pop. (1897) abt. 700.

Green'vale, in Illinois, a post-village of Jo Daviess co., about 22 m. N.W. of Freeport.

Greenwale, in Insec, a post-office of Dallas co.

Greenvale, in Ilinois, a post-village of Jo Daviess on, about 22 m. N.W. of Freeport.

Greenvale, in Inea, a post-office of Dallas co.

Greenvale, in Inea, a post-office of Dallas co.

Greenvale, in New York, a village of Queens co.

Green Village, in New Jersey, a P. O. of Morris co.

Green Village, in Pensayleonia, a post-village of Franklin co., about 40 m. S.W. of Harrisburg.

Greenville, in Alabama, a city, capital of Butler co., on L. & N. B.R., 44 m. S.W. of Montgomery. Seat of overal educational institutions. Pop. (1897) abt. 3,000.

Greenville, in Arkunsus, a township of Clarke co.

—A village of Washington co.

Greenville, in Consecticut, a post-office of Plumas co.

Greenville, in Consecticut, a post-office of Plumas co.

Greenville, in Consecticut, a post-village of New London co., on the Quinnebaug river, about 2 m. N.E. of Norwich Landing. Pop. (1897) about 1,500.

Greenville, in Georgia, a post-village, capital of Merriwether co., about 108 m. W. of Milledgeville. The vicinity is noted for its medical springs.

Greenville, in Ilinois, a post-village, capital of Bond co., about 46 m. E. of Alton. Pop. (1890) 1,868.

—A township of Bureau co.

Greenville, in Meisse, a post-town, cap. of Muhlenberg co., about 15 miles northwest of New Albany.

Greenville, in Meisse, a post-town of Plecataquis co., about 80 m. N. by E. of Augusta. Pop. (1894) 781.

Greenville, in Meisse, a post-town of Plecataquis co., about 80 m. N. by E. of Augusta. Pop. (1894) 3,113.

Greenville, in Michigon, a city of Montcalin county, on Flat river and 2 railroxis, 24 m. N. E. of Grand Rapids. Has important manuf. Pop. (1894) 3,113.

Rapida. Has important manuf. Pop. (1894) 3,113.

Greenville, in Mississippi, an important shipping town, cap. of Washington co., on the Mississipping river, 100 m. N. W. of Jackson. Pop. (1890) 6,658.

Greenwille, in Missouri, a village of Clay co.

—A put-tillage, cap. of Wayne co., on St. Francis river, about 130 m. S. E. of Jefferson City.

Greenwille, in North Carolisa. a post-village, cap. of Pitt county, on Tar river, about 100 m. E. by S. of Raleigh. Pop. (1890) 1,337.

Greenwille, in Now Jersey, a former post-village of Hudson county. Now part of Jersey City.

—A village of Sussex co., about 7 m. S. W. of Newton.

Greenwille, in New York, a post-town of Greene county, about 24 miles S. S. W. of Albany. Pop. (1890) 1,351.

GREE

—A village of Stark county, about 6 miles west of Massilion.

Green ville, in Pennsylvania, a village of Clarion co., about 8 m. S. E. of Clarion.

—A village of Indiana co. See Penn Run.

—A post-borough of Mercer co., on Shenango creek, about 25 m. S. W. of Meadwille. It was formerly called West Greenville. Pop. (1897) about 4,000.

—A village of Montgomery co.

—A township of Somerset co.

Greenville, in Rhode Island, a post-village of Providence co., about 12 m. N. W. of Providence.

Greenville, in S. Carolina, a N. W. co., bordering on N. Carolina; area, about 716 sq. m. Eisers. Ennoree, Tiger, Saluda, and Reedy rivers. Surface, diversified, the Blue Ridge extending along the N. W. border; soil, fertile. Cap. Greenville. Pop. (1890) 44,310.

—A city, cap. of Greenville co., on Reedy river, about 80 m. N. W. of Columbia. Pop. (1890) about 11,000.

Greenwille, in Tennessee, a post-village, cap of Greene co., about 250 m. E. of Nashville. Also spelled GREENE-VILLE.

co., about 250 m. E. of Nashville. Also spelled GREENE-VILLE
Green wille, in Taxas, a post-town, cap. of Hunt co., about 250 m. N. N. E. of Austin. Pop. (1890) 4,330.

—A village of Polk co., about 15 m. N. of Livingston.
Green wille, in Virgisia, a S. E. co., bordering on N. Carolina: area, about 325 sq. m. Bisers. Nottoway and Meherrin rivers. Surface, level; soil, moderately fertile. Cap. Emporia. Pop. (1890) 8,230.

—A post-village of Augusta co., on the South river, about 120 m. W. N. W. of Richmond.
Green wille, in Wisconsin, a post-township of Outagamie county.

mie county.

ireen Vit'riol, s. (Mis.) Same as MELANTERIT

mie county.

Green Vit'riel, a. (Min.) Same as Melanterit' (q. e.).

Green Wit'riel, a. (Min.) Same as Melanterit' (q. e.).

Green wich (grin'idge), a borough of the city of London, Englaud, on the right bank of the Thames, 6 m. S. E. of London bridge. G. contains a magnificent hospital for invalid seamen, founded in 1696, and built under the superintendence of Sir Chris. Wren. The Royal Observatory, erected by Charles II., is under the charge of the Astronomer Royal, a position that has been filled by Flamsted, Halley, Bradley, Bliss, Maskelyne, Pond, Airy, etc. The longitude of all English charts and maps is reckned from this observatory, and the captains of ships take their time, as given at 1 P. M. It is also from G. that the longitudes in this work have been calculated. Pop. (1895) 87,750.

Green'wich, a seaport town on the N. coast of Prince Edward Island, British N. America; Lat. 46° 22° N, Lon. 62° 47° W.

Greenwwich, in Connecticut, a post-township of Fairfield co., on Long Island Sound, about 31 m. N.E. of New York; pop. (1890) 10,131.—Putnam's Hill, in W. Greenwich, near Horse Neck, is celebrated as the scone of General Israel Putnam's daring exploit during the War of Independence.

Green wich, in Massachusetta, a post-town of Hampshire co., on Swift river, about 80 m. W. of Boston. Pop. (1895) 528.

Green wich, in New Jersey, a post-village and township of Cumberland co., on Delaware bay, about 6 m.

Pop. (1896) 526.

Green wich, in New Jersey, a post-village and township of Cumberland co., on Delaware bay, about 6 m. W.S.W. of Bridgeton.

—A township of Gloucester co.

—A township of Warren co.

Greenwich, in New York, a post-village and township of Washington co., on the Hudson river, about 36 m. N.E. of Albany. Pop. of village (1890) 1,663.

Green wich, in Noio, a township of Huron co.

—A post-office of Huron co.

Greenwich, in Personalization, a township of Barks co.

—A post-ome of Huron or Greenwich, in Pennsylvania, a township of Berks co. Greenwich Village, in Mussachusetts, a post-village of Hampshire co., about 76 m. W. of Boston. Green'wood, a. Belonging or relating to a green wood; hence, arboraceous; rural; bucolic. "Among wild herbs under the greenwood shade."—Pairfox.

wood; hence, aronacents; hira; outone.

"Among wild herbs under the greenscood shade."—Pairfas.

"A. A wood when green, as in summer.

Green wood, in Arkusaca, a post-town, capital of Sebastian co., about 18 m. S.E. of Fort Smith.

Green wood, in California, a post-town of Sussex co.

Green wood, in Planacer, a post-town of Sussex co.

Green wood, in Plorida, a post-office of Jackson co.

Green wood, in Illinoia, a post-town of Johnson co., about 10 m. S.E. of Indianapolis. Pop. (1890) 862.

Green wood, in Indiana, a post-town of Johnson co., about 10 m. S.E. of Indianapolis. Pop. (1890) 862.

Green wood, in Kassaa, a S.E. central co.; area, about 1,155 sq. m. Rivers. Verdigris river, and numerous smaller streams. Surface, undulating. Soil, fertile.

Green wood, in Louisiana, a post-town of Caddo parish, about 350 m. N.W. of New Orleans.

Green wood, in Maise, a post-town of Oxford co.

parisn, about 30 m. N. w. of New Orleans.

Greenwood, in Maise, a post-town of Oxford co.

Greenwood, in Massachusetts, a P. O. of Baltimore co.

Greenwood, in Massachusetts, a P. O. of Middlessx co.

Greenwood, in Michigun, a post-office of Ogemaw co.

—A township of Oceana co.

—A township of Clare co.

-A village of Sussex co., about 7 m. S. W. of Newton.

Greenville, in New York, a post-town of Green county, about 24 miles 8. S. W. of Albany. Pop. (1890)
1.351.

A township of Orange co.

Greenville, in Ohio, a city, cap. of Darke co., on 3 milroads, 36 m. N. W. of Dayton. The village is built Greenwood, in Missouri, a post-town of Jackson co. upon the site of a fort of that name, erected in 1793 by Greenwood, in Nebraska, a post-office of Cass co.

Gen. Wayne, who also in this vicinity concluded a treaty Greenwood, in New York, a post-township of Steubea of peace with the Indians. Pop. (1890) 5,437.

A village of Stark county, about 6 miles west of Mas-Greenwood, in Pransplanta, a post-township of

Green wood, in Panagleania, a post-township of Columbia co.

—A village of Bradford co.

—A township of Orawford co.

—A township of Juniata co.

—A township of Perry co.

Green wood, in S. Carolina, a post-village of Abbeville co., about 85 m. W. by N. of Columbia. Pop. (1897) about 1,480.

Green wood, in Scath Dahala a village of Charles Cimens wood, in Scath Dahala a village of Charles Cimens wood, in Scath Dahala a village of Charles

Greenwood, in South Dakota, a village of Charles

Greenwood, in Tennessee, a post-office of Wilson co. Greenwood, in West Virginia, a post-office of Dodd-

Greenwood, in West Virginia, a post-office of Dodd-ridge co.

Greenwood, in Wisconsia, a township of Vernon co.

Greenwood Cemetery, in New York. This, the principal necropolis of New York city and neighborhood, on Long Island, is in East Brooklyn, E. of Gowanus bay. It covers an area of 475 acres, occupies a site of the most picturesque beauty, and is laid out so handsomely with a view to fineness of natural effect as to make this cemetery one almost without a rival in the world. From its heights the waters of New York Bay may be seen on the one hand, and the broad expanse of the Atlantic on the other. There are 20 miles of roadway and more than 25 miles of foot-paths. Its monuments are numerous and costly. The main gateway is adorned with four magnificent sculptures, in alto relievo, representing four scenes in the resurrection. The number of interments up to 1897 exceeds 300,000.

Green'wood Irom Works, to New York, a village of Orange co.

Green'wood Iron Works, to New 1072, a vimage of Orange co.
Greent ville, in Ohio, a post-office of Knox co.
Greent, v. a. (imp. and pp. Gererte; pp. Gererine).
[A.S. gretan; D. greten; Pris. greetjan; Ger. grüssen; Low Sax griten, to greet.] To address with salutations, or expressions of good wishes; to salute in kindness or respect; to hall; to congratulate; to send kind wishes to; to meet and address with kindness or good-will.

"Metals the manuse of London computer to great you." — Baks.

"My lord, the mayor of London comes to greet you." - Shake To address in any manner; to accost.

" Now, Thomas Mowbray, . . . m ark my greeting well." — Shak v. n. To meet and salute.

e, . . . our eyes unhappy ! never grested more." — Pops.

Greet'er, n. One who greets.
Greet'ing, n. Salutation at meeting; compliment addressed from one absent; expression of good-will, kind-

ness, or joy. nos where no kindness is.

"Nor greatings where no kindness is." — Wordsneville.

Grega'rious, a. [Lat. gregarius—grez, gregis, a flock or herd; probably allied to Sanek. granth, to Join or put together.] Going in flocks or herds; living in numbers; not habitually solitary.

Grega'riously, adv. In a gregarious manner; in a flock, herd, or company.

Grega'riousness, n. State or quality of being gregarious.

Gregs, in Indiana, a township of Morgan county.

ty. Gregg, in Pennsylvania, a township of Centre coun-

Greggs'port, in Nebraska, a township of Otos county.

Greggs ville, in W. Virginia, a post-office of Ohlo co.

Grego, Griego, n. [Sp. Griego.] A short mantle

or cloak with a hood attached, worn in Greece and the

Fregorian, a. [Fr. Grégories, from Lat. Gregorius.] Denoting what belongs to Gregory; as, the Gregorian calendar. Grego'rian, a.

Denoting what belongs to Gregory; as, the Gregorian calendar.

G. Calendar. (Chron.) See Calendar.

It canto firmo; Fr. plean chant; Ger. choru! Eng. plain chant.]

(Mus.) The name given to certain choral melodious introduced into the service of the early Christian Church by Pope Gregory the Great, and still forming the basis of cathedral music. By the Gregorian tones, or modes (toni, modi) of Gregory, must be understood a certain melodious formula, made out of the union of a perfect fifth and a perfect fourth, or their inversion, to give the church-song greater variety. All the old writers agree as to the diatonic genus of the Gregorian tones, but they do not all agree as to the number of the tones; common the charles of the Gregorian tones may be explained thus: As there are seven notes from a to g, there should be at least seven different modes, or tone-systems, varying from each other according to the position of the semitones; but as the final or key-note of each mode might be the first note, or might be in the middle, the same scale could therefore, as it were, be viewed from two sides, which gave rise to the fourteen systems of lones. It was, however, found thus two of those were at variance with a fundamental rule of church-song—vis., that every mode or scale must possess a perfect fifth or perfect fourth; and that the modes containing a false fifth from b natural to f natural, or a false fourth from f to b, could not be used, and on account of the dissonant character of these intervals must be rejected. This reduced the number of the tones to of the disconant character of these intervals must be rejected. This reduced the number of the tones to twelve. It was further found, that, as four of the twelve were merely transpositions of some of the others, there were really only eight, and that they were in every respect sufficient for all the purposes of church-song. The eight Gregorian tones, as they are handed down to us, were in time fixed by a royal mandate of Charles the Great—octo toni sufficers videntur. The different charac-

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ter of the Gregorian tones depends entirely on the places of the semitones. Several of the tones have various endings, some as many as four, while the second, fifth, and sixth tones have each only one ending.

G. telesope. (Optics.) The first and most common form of the reflecting telescope, invented by James Gregory, an English professor of mathematics in the University of St. Andrew's, 1663.

G. year. (Chron.) See Calendar.

Gregory In. (Popl.) surnamed the Great, was B. of a noble family at Rome, about the year 544. He discovered such abilities as a senator, that the Emperor Justinus appointed him prefect of Rome, after which hembraced the monastic life in a society founded by himself. Pope Pelagius II. sent him as unucle to Constantinople, and on his return made him apostolical secretary. He was elected successor to that pontiff in 560. Pope G. was plous and charitable, had lofty notions of the papal authority, was a reformer of the clerical discipline, and after his death was canonized. He is, however, accused, but on slight and doubtful evidence, of burning a multitude of the works of ancient authors, leat the attention to heathen literature should supersede the monkish and ecclesiastical studies of the age. His works are comprised in 4 vols. D. 604.

GREGORY II., (Sr.,) succeeded Constantine in the pontificate, 715, and D. 731.

GREGORY II., a native of Syria, succeeded to Gregory II., and D. 741.—He sent legates to Charles Martel to demand succor against the Lombards, which embasy is considered to be the origin of the apostolical nuncios in France.

GREGORY IV., ROMBA, SUCCEEDED AND STACE STACES AND STAC

is considered to be the origin of the apostolical nuncies in France.

Gregory IV., a Roman, succeeded to Valentine in 828, and was greatily esteemed for his learning and piety. D. 844. Gregory V., a German, and a kinsman of the Emperor Otho, succeeded to John XV. 996. An anti-pope, named John XVIII., was set up against him by Crescentius, a consul of Rome, but was expelled by the emperor. D. 999. Gregory VI., a Roman, succeeded to John XIX., who finding the lands and revenues of his clutch greatly diminished by usurpations, and the roads infested by robbers, acted with such vigor that a powerful party was raised against him by those who had been accustomed to live by plunder. At a council, held at Sutri in 1046, Gregory abdicated the pontificate.

Gregory VII., Hilderand, son of a carpenter, was a native of Soano, Tuscany. He was the friend and counsellor of Leo IX. and the four succeeding popes, and on the death of Alexander II. was elected to succeed him, 1073. He obtained confirmation in his elec-

counsellor of Leo IX. and the four succeeding popes, and on the death of Alexander II. was elected to succeed him, 1073. He obtained confirmation in his election from the Emperor Henry IV., and immediately applied himself zealously to reform two of the grossest evils of the Church, — simony and the licentiousness of the clergy. In his view, however, marriage, no less than concubinage, was a sin in them. He menaced the emperor and the king of France, the latter without effect. In 1074 he assembled a council, by which it was forbidden the prelates to receive investure of a layman; and this was the first step in the quarriel with the emperor, which lasted so many years. Henry, disregarding the papal authority, was summoned to Rome; but he held a diet at Worms, and pronounced the deposition of the emperor and the election of another, Rodolph of Suabia. Henry now promised submission; and in the early winter of 1077 went with his wife and child to Italy. The pope was at the castle of Carnossa, and there, after keeping the poultent king of Germany three days waiting at the gate, he received and gave him absolution. The terms imposed on him were intolerable, and he soon broke them, made war on Rodolph, and defeated him, set up a rival pope in Guibert, archolishop of Ravenna, with the title of Clement III, and after several unsuccessful attempts entered Rome in 1084, he himself crowned emperor by his own pope, and or Ravenna, with the title of Clement III., and atter several unsuccessful attempts entered Rome in 1084, had himself crowned emperor by his own pope, and besieged G. in San Angelo. The pope was delivered by Guiscard, and retiring to Salerno, b. there in 1085.— Whatever may be said of the power in itself, or of the length to which it has at times extended, the occasion Whatever may be said of the power in itself, or of the length to which it has at times extended, the occasion and the object of its exercise in the hands of G. were always such as to command the sympathy of the philosophical student of the history of the Middle Ages By his firm and unbending efforts to suppress the unchristian vices which deformed society, and to restrain the tyranny which oppressed the subject as much as it enslaved the Church, he taught his age "that there was a being on earth whose special duty it was to defend the defenceless, to succor the succoriess, to afford a refuge to the widow and orphan, and to be the guardian of the poor." Dean Milman sums up his history of G. as of one who is to be contemplated not merely with awe, but in some respects, and with some great drawbacks, as a benefactor of mankind.

GERGORY VIII., B. at Benevento, succeeded Urban III., 1187, and D. the same year, after having exhorted the Christian princes to undertake a new crusade. He is not to be confounded with the anti-pope Bourdin, who assumed the same name.

SERGORY IXI., (POPE.) Ucolino, was a native of Campania, and a near relative of Innucent III. He became a bishon of Oetia and cardinul and in 1277 succeeded.

is most IX., (POPL.) Usotino, was a native of Campania, and a near rolative of Innecent III. He became a bishop of Ostia, and cardinal, and in 1227 succeeded Honorius III. His coronation surpassed in magnificence any which had preceded it, and the ceremony lasted three days. The principal events of his pontificate were the various incidents of his contest with the great Emperor Frederick II., whom he repeatedly excommunicated, absolving his subjects from their allegiance, and procelaiming a crussele against him. In 1229, G. levied a tithe on all movables in England towards the expenses

of his war with Frederick. He established, a few years later, the inquisition at Toulouse and Carcassonne, excited, by his haughty demeauor, a revolt at Rome in 1234, and was driven from the city, to which he did not return for three years. St. Anthony of Padua, St. Dominic, and St. Elizabeth were canonized by G., who b. in 1241, at a very advanced age.

12500ar X., of the illustrious tamily of Visconti, was elected pope in 1271, after an interregnum of two years, at which time he was in the Holy Land. He assembled a council at Lyoras, to promote a union between the East-

at which tithe he was in the Holy Land. He assembled a council at Lyons, to promote a union between the Eastern and Western churches, and other objects. D. 1276. GREGORY XI., (Peres Roges,) a native of Limousin, in France, was a nephew of Clement VI., and son of the count of Beaufort. He was elevated to the pontificate in 1370, after the death of Urban V., was a patron of Christendom, and endeavored to reconcile the princes of Christendom, and to reform the religious societies. He transferred the papel see from Aviguon to Rome, where he died, 1378.

transferred the papel see from Aviguon to Rome, where he died, 1378.

GREGORY XII., (ANGELO CORARIEO.) a native of Venice, was raised to the pontificate in 1406, during the schism in the Rast, Benedict XIII. being the other pope. Both were deposed by a council held at Piss, and Alexander V. elected in their stead. G. submitted, and laid aside the pontifical dignity. D. 1417.

GREGORY XIII., BONCOMPAGNI, was native of Bologna, and successied Pope Pius V. in 1572. He was deeply versed in the canon and civil law, and had distinguished himself at the council of Trent. He ornamented Rome with many fine buildings and fountains; but his pontificate is chiefly memorable for the reformation of the calendar, which took place under his auspices, and bore his name. D. 1585.

GREGORY XIV., (NICHOLAS SPONDRATE,) succeeded Urban

incate is cinely memorate for the reformation of the calendar, which took place under his auspices, and bore his name. D. 1885.

Gregory XIV., (Nicholas Syondare.) succeeded Urban VII. in 1550. He was the son of a senator of Milan, and involved himself in an unsuccestly war against Henry IV. of France. D. in 1891.

Gregory XV., (Alessandre Ludovico,) was a native of Bologna, and descended from an ancient family. He succeeded Paul V. in 1621, and was the founder of the College of the Propagenda. It was this Pope who, in 1622, canonized Ignatius Loyola, Francis Xavier, and Philip de Neri. He was author of several works, one of which is entitled Epistola ad Regem Persarus, Shah Abbas, cum notes Hegalsoni, 8vo., 1627. D. 1623.

Gregory XVI., Mauro Capellari, a. at Belluno in 1765, and succeeded Pius VIII. 1831. His pontificate was a period of no ordinary interest and difficulty in the history of the Church, and in the relations of the Vatican with the temporal powers of Christendom. Simple in his habits, though narrow in his ideas and timid in his manners, he nevertheless displayed great energy in conducting the affairs of the Church. D. 1848, and was succeeded by Plus IX.

Gregory, bishep of Neo-Cessarsa, in the 3d century, was surnamed Thaumatusous, or the Wonder-worker, on account of the miracles which he is said to have performed. The Church flourished under his care until the Decian persecution in 250, when he thought it prudent to retire for a time. He was a pupil of the celebrated Origen, and appears to have been a man of learning. D. about 265.

Gregory, James, a Scottish mathematician and philosopher, a at Aberdeen, 1638. At the age of 29 he became,

Origen, and appears to have been a man of learning. D. about 295.

Gregory, James, a Scottish mathematician and philosopher, B. at Aberdeen, 1638. At the age of 29 he became professor of mathematics in St. Andrew's: from which he was transferred to the same chair in Edinburgh, 1674. Ile died at the early age of 36 (1675,) having given the most brilliant promise as well as great performance. We owe him one form of the reflecting telescope: and in analytic power he sometimes rivaled Newton. His memoirs are very numerous, all bespeaking talents and originality of the first order.

GREGORY, David, nephew of the preceding, B. at Aberdeen, 1691; at the age of 23 he succeeded his uncle in the metropolitan chair. David was an elegant mathematician and a good astronomer. He became Savilian professor at Oxford, and was one of the first who comprehended and taught the philosophy of Newton. He died in 1708.

GREGORY, John, a physician and miscellaneous writer, grandson of James G., B. in 1724, at Aberdeen; studied to the light of the contraction of the product of the properties of the product of

REGORY, John, a physician and miscellaneous writer; grandson of Janes G., B. in 1724, at Aberdeen; studied at Edinburgh and Leyden; became professor of physic at Edinburgh; and was appointed first physician to the king; of Scotland. His works are, A Comparative View of the State and Facilities of Man with those of the Animal World; Observations on the Duties and Offices of a Physician; Elements of the Practice of Physic; and A Futher's Legacy to his Daughters. Died 1773.

cian; Elements of the Practice of Physic; and A Pather's Legacy to his Daughters. Died 1773.

Gregory (St.), commonly called Gregory of Tours, was B. in 544, in Auvergne. He was chosen bishop of Tours in 543, and D. 595. He was author of a History of the Franks, and is the most ancient of French historians. Gregory Masi'smem (St.), a father of the Church, bishop of Constantinople, eminent for his piety, eloquence, and learning; B. in 326, near Nazianaus, in Cappadocia, of which place his father, a convert from heathenism, was bishop. He received an excellent education, which he improved at Athens, where he formed an acquaintance with St. Basil. On his return home he was ordained; hesitated long between the contemplative and the active life; adhered to the Nicene doctrine, and endeavored to keep together its persecuted adherents; assisted his father in his pastoral duties, and at length became minister to a small congregation of the Nicene Christians at Constantinople. Distinguishing himself greatly by his fervent eloquence, and no less by his wisdom and moderation, he was made bishop of Constantinople by Theodosius in 330. After filling this high and difficult post for one year, he resigned it, and returned to his native place, where he b. in 339. He excelled all

his contemporaries in pulpit elequence; and his style has been compared to that of the orators of ancient Greece. Many works of G. N. are extant, and consist of orations, letters, and poems. Ullman's interesting monogram on this eminent preacher has been translated to the present of the contemp. into English.

into English.

Jeegory of Nyssa (St.), the younger brother of St.

Basil, was ordained bishop of Nyssa in 372. The zeal he
displayed against the Arians excited the resentment of
the Emperor Valena, who belonged to that sect, and he
was banished; but on the accession of Gratian he was
restored to his see. He was present at the consoil of
Constantinople in 381, and at another in 394, and b. soon
afterwards. afterwards.

Gre'gree, n. A talisman, charm, or fetish, used by some African tribes.

African tribes.

Greifenberg, (grif'en-bairg.) a town of Prusia, prov. Pomerania, on the Rega, 40 m. N.E. of Stettin. It is celebrated for its linen manufactures.

Greifenbargen, a town of Pomerania, Prussia, on the Oder, 12 m. b.E. of Stettin. Manuf. Woollen cloths and leather.

Greifswalde, (grife's-cal'dy.) a city and port of Pomerania, Prussia, capital of the circle of Straisund, on the Rick, 9 m. from the Baltic and 16 m. S.E. of Straisund. Manuf. Tobacco, salt, oil, grain-brandy. G. contains a celebrated university founded 1456, a large public library, and a botanical garden.

Greig, (grey.) in New York, a post-township of Lewis co.

regiment have aways used searches to form a called the grenadier company.

—a. (Mil.) Composed of grenadiers: relating to great-diers; as, the grenadier company of a twattation.

Gren'addine, n. A thin silken fabric used for ladier

dresses, &c.

Gren'adimes, a cluster of small islands between 8t.
Vincent and Grenada, two of the Antilles, exterding from
Lat. 12° 30′ to 13° N., and consisting of Bequia, Carriacoa,
Union, and other small islands. They belong to Grest

Lat. 12°30′ to 13°N, and consisting of Bequia, Carriacon. Union, and other small islands. They belong to Grest Britain.

Grema'de, n. (Mil.) See Grenare.

Grema'de, n. (Mil.) Same as Standolitz, q. v.

Gremelle', an ancient burg between Paris and Auteul, subsequently a faubourg of Paris, and now an integral part of the city. G. is particularly noted for its celebrated Artesian well, 1,704 feet deep, which supplies all the upper portion of Paris with water.

Grema'dele, Lat. Gratianopolis.] a fortified town of France, dept. leère, at the confluence of the river leève with the Drac, 300 m. S. 6. of Paris. Maway', Glova, cotton articles, hemp, and various sorts of liquora. G. contains a university, a very celebrated artillery-echod, a school of surgery and midwifery, and an academy of arts and sciences.

Grema'dile, Groors, an English statesman, z. 1712. He entered parliament in 1741, and retained a seat in the Lower House for 29 years. After filling subordinary political positions, he was appointed, in 1762, Serretary of State, and before the close of the same year, First Lord of the Admiralty. In the year following, he became Chancellor of the Exchequer and First Lord of the Treasury; but in 1765 he resigned the premiership, and D. 1770. G. was an eloquent speaker, and a man of consummate business ability, although he is credited with the authorship of the impolitic Stamp Act, which prepared the way for the severance of the Americas colonies from the mother country.

Grema'ville, a N.E. co. of prov. of Ontario, bordering on New York; area, about 421 sq. m. Rivers. St. Lawrrece, Rideau, and Nation rivers. Surface, diversified; selfertile. Out. Prescott.



rem'ville, a vill of prov. of Quebec, co. of Two Mountains, on the Ottawa River, abt. 60 m. W. of Montreal. remville. See Graffull.
The French name for a sandstone or a grit.

irem. See Graville.

ires. The French name for a sandstone or a grit. Thus the new red sandstone is called le nouveau gris rouge; the grès of Fontainebleau is also a well-known member of the tertiary grès.

iresh'amm, Stra Thomas, founder of the Royal Exchange of London, and the Gresham Lectures, E. in London 1519, was the son of Sir Richard Gresham, merchant and lord mayor of that city, and acquired universal fame as a merchant for his knowledge, sound judgment, and integrity. Besides his munificent endowments in the interest of commerce and the arts, he served the state as ambassador, and contributed greatly to placing the financial affairs of England upon a sound basis, being in constant intercourse and correspondence with Sir W. Cecil. He was greatly houred by Queen Elizabeth. Died in 1597. See Gresham's Law, in Section II.

iresh' wille, in Pransylvania, a P. O. of Berks co.

pressed: (gris-sel'.) Jean Bartiste Louis, a French poet and dramatiat, s. 1709. For a long time he excited the admiration of Parisian circles, wrote some elegant poeus, became a member of the Academy, and was the

poems, became a member of the Academy, and was the companion of the wits and literati of the French capital

companion of the wits and literati of the French capital; but at length he renounced his favorite pursuits, and withdrew from the gay world, to enjoy the tranquillity of retirement. D. 1777. His literary fame rests principally on his Fert Fert, his Chartreus, and Le McChant.

Sremso'rial, a. [From Lat. gradi, gressus, to go.]

[Zool.] Applied to the feet of birds which have three toes forward, two of which are connected, and one behind.

Bret'ma-Greem, a village of Scotland, in Dumfriesshire, 27 m. S.E. of Dumfries, on the high-road between London and Edinburgh, celebrated for the irregular marriages formerly contracted there. They originated in the greater laxity admitted by the law of Scotland than by that of Engiand, on the subject of marriage. In Scotland, a marriage may be contracted by a mutual London and Edinburgh, celebrated for the irregular marriages formerly contracted there. They originated in the greater laxity admitted by the law of Scotland than by that of England, on the sulject of marriage. In Scotland, a marriage may be contracted by a mutual declaration to that effect by the two parties in the presence of wincesses, a mode which is much more simple and expeditious than that of England; and hence it was largely taken advantage of by runaway couples from England; the rule being, that a marriage is valid in England if contracted according to the law of the place in which it was solemnized. G-O- being the most convenient place on Scotch ground for parties from England, the marriages usually took place there; but they were also celebrated at Springfield, Annan, Coldstream, and other places along the border. At O-O- and the other places there were usually one or more persons who took upon themselves the duties of the priest, and in whose presence the declaration was made. The marriage service of the Church of England was sometimes read, in order to please the parties. The practice is said to have been begun at G-O- rather more than a century ago, by a person named Paisley, a tobacconist. Afterwards it was carried on by various individuals, each inn, in fact, having its rival priest, besides various others, who carried on the business on their own account. Latterly, the best-known of these worthies was a blackamith, though he is said to have had a formidable rival in a person who was employed in breaking stones on the rousiside, and who in this way had the advantage of getting the first word of the parties in passing. Though sometimes large sums were received, the effect of competition had been to reduce the fee, in some cases, allow as half a crown. The marriages effected in this way were at one time estimated as high as 500 a year. The practice, however, has virtually been put a stop to by 19 2 20 Vict. c. 96, which declares that no valid marriage can be contracted in Scotland, unless one of t

strong and enastic. and found in America.
irew some, Grue/some, a. [Scot.] Forbidding;
awful; ghastly; frightful.

"Bank also it was a grussome sight."—Douglas.

"Bech, airs, it was a grassome sight."—Dougses.
Grey, a. Same as Gran, q. v.
Grey Friars. See Franciscans.
Grey, Charles, second Earl, an English statesman, B.
at faileden, near Alnwick, Northumberland, 1764, became in 1786 a member of parliament, and in 1792 was
one of the founders and most active members of the
"Society of the Friends of the People." In 1797 he
brought forward a motion for parliamentary reform, for

which he continued to labor strenuously, although he was, for many years, unsuccessful in carrying the object of his wishes. When Lord Grenville, in 1806, came into office, G., as Lord Howick, (from the elevation of his father to the peesage,) became First Lord of the Admiralty, and, as one of the leaders of the House of Commons, carried the Act for the abolition of the slave-trade. In the following year, the cabinet was broken up, and he, in the same year, succeeded to the title, by the death of his father. In the House of Lords he became one of the leaders of the opposition. For many years he remained out of office; but in 1830 he was called upon by William IV. to form a new cabinet, after the fall of the Wellington administration. He accordingly became prime minister, and announced "peace, retrenchment, and reform" as the objects of his policy. In 1831 the Reform Bill was introduced by Lord John Russell into the House of Commons; but in the following year the ministers resigned, on account of a notion of Lord Lyndhurst. They were restored to power, however, and in the same year the bill was passed. In the succeeding year Earl Grey resigned, and, after about a couple of years, retired from public life. D. 1845. Grey, Lady Jang, a noble English lady whose accomplishments and misfortunes have rendered her an aspecial object of interest, was the daughter of Henry Grey, marquis of Dorset (afterwards duke of Suffolk), by the Lady Frances, daughter of Charles Brandon, duke of Suffolk, and Mary, younger sister of Henry VIII. She which he continued to labor strenuously, although he

GREY



Fig. 1200. — LADY JANE GREY. (After Holbein.)

Fig. 1200.—LADY JANE GREY. (After Hoibein.)
was R. in 1837, at Bradgate, her father's seet in Lelcestershire; and early in life gave proofs of talents of a superior order. She wrote an incomparable hand, played well on different instruments, and acquired a knowledge of the Greek, Hebrew, and Latin, as well as of the French and Italian languages. Roger Ascham has given a beautiful and affective narrative of his interview with her at Bradgate, where he found her reading Plato's Fhaedo in Greek, while the family were amusing themselves in the park. In 1851 her father was created duke of Suffolk; and at this time Lady Jane Grey was much at court, where the ambitious duke of Northumberland projected a marriage between her and his son, Lord Guilford Dudley, which took place at the end of May, 1853. Soon after this, Edward VI. died, having been prevailed upon, in his last illness, to settle the crown upon the Lady Jane, who rejuctantly accepted it, and was proclaimed with great pomp. This gleam of royalty, however, was of short duration; for the pageant reign lasted but nine days. The kingdom was disastised, and the nobility indignant at the presumption of Northumberland, so that Mary soon overcame herenemies, and was not backward in taking ample revenge. The duke of Northumberland was beheaded, and Lady Jane and her husband were arraigned, convicted of treason, and sent to the Tower. After being confined some time, the council resolved to put these innocent victims of a parent's unprincipled ambition to death. Lord Guilford suffered first, and as he passed her window his lady gave him her last adieu. Immediately afterwards she was executed on the same scaffold, suffering with calmess and resignation, Feb. 12, 1554. Grey, a W. central co. of prov of Ontario, bordering on Georgian Bay. Area, abt. 2,321 sq. m. Rivers. Saugeen

fering with calmness and resignation, Feb. 12, 1554.

Grey, a W. central co. of prov. of Ontario, bordering on Georgian Bay. Area, abt. 2,321 sq. m. Rivers. Saugeen and Maitland rivers. Surfuce, diversified; soil, moderately fertile. Cap. Owen Sound. Pop. abt. 60,000.

Grey hound, n. [A. S. grighted.] (Zoil.) A species of dog. Cante gratise, used for the chase, which appears to have been known even in the most remote ages of antiquity, as it is represented on some of the oldest of Egyptian monuments. Its first portraiture that can be relied on is in a painting on one of the tombs of the fourth dynasty of Egypt, which must be upwards of 4,000 years old. The cultivated English greyhound, according to Blaine's Encyclopedia of Rural Sports, exhibits a model of elegance, and a combination of symmetrical proportions probably unrivalled by any other animal but the race-bores; and the perfection of the mechanism for speedy progression is apparent throughout its structure. As the greyhound hunts by sight

rather than by smell, its eyes are placed more conspicu-ously forward than in other dogs. The head is beauti-fully shaped, and slender in proportion, its muzzle is long and pointed; the ears droop at the points; the back is broad and muscular; the body being lank, and very much contracted in its lower parts. The legs



Fig. 1201. - GREYHOUND.

Fig. 1201. — GRETHOUND.

are long and muscular, while the chest is capacious and deep, with the tail slender and curved upwards at the end. The Irish greyhound, or wolf-dog, is a variety of this animal; it is stronger and larger, but it is not so fit for hunting-purpose, as it lacks the speed and keen eyesight of the true greyhound. The Italian greyhound is a went a much smaller variety than the English, and is a very delicate animal. From its diminutive form and tender constitution, it is more fit for the duties of a lap-dog than for those of the chase.

Grey'stenes, a promontory and fishing-village of Ireland, co. of Wicklow, Leinster, abt. 3 m. S.E. of Bray.

Grice, Grise, n. [Swed. and Irel. gris, a little pig; Gr. choiros, a young swine.] A little pig.

Gride'die, n. [W. griedel, from grediaw, to heat, to scorch, to parch.] A circular plate of iron, or a broad and shallow pan, for baking cakes over a fire. (Somewritten girdle.)

(Mining.) A large wire sieve, used instead of a hurdle, for silting and sorting copper ore as it rises from the mine.

mine.

Gride, v. a. [A. S. grädan, to cry. See CRY.] To cut with a harsh, grating sound.

"The griding sword... passed through him." — Milton.

—n. A cutting or scraping with a harsh, grating sound.

Grid'elin, Griz'elin, n. [Fr. griz de lin, flax-gray.]

A color mixed of white and red; as, "the bloomy gride-lin."— Dryden.

lin." — Dryden.

Gridiron, (gridi-ern.) n. [Swed. & Goth. gridda, to bake, and iron.] A grated utensil used in kitchens for broiling fiesh, fish, &c., over the fire.

(Naut.) A frame upon which a ship rests at low water, or in dry-dock, for survey and repairs to her

bottom

bottom.

Gridiron-pendulum. See PENDULUM.

Grid'ley, in Illinois, a post-township of McLean co.;
pop. abt. 1,200.

Grief, (grif), n. [D. grief; Fr. grief, from greer; It.
gravare, to oppress, from Lat. gravis, heavy.—See
GRAVE.] The pain of mind produced by loss, misfortune, injury, or evils of any kind; sorrow; regret; the
pain of mind occasioned by our own misconduct; sorrow
or lamentation for the loss of friends; sadness.

"In all the silent mealiness of grief,"—Goldsmith.

Cause of surpow, that which efficient toughts, grienance.

e of sorrow; that which afflicts; trouble; grievance;

affliction.

'The glory dies not, and the grisf is past."—Sir Egerton Brydges.

affliction.

"The giory dies not, and the grief is past."—Sir Egerton Brydges.

—Physical pain, hurt, or disease. (R.)

—Misfortune; mishap; calamity; want of success; as, all who engaged in the affair came to grief.

Grieffiel, a. Full of grief, woe, or sorrow.

Grieffiels, a. Free from grief.

Griefgo, n. Same as Grego, q. v.

Grief'er, in Indiana, a township of Warrick co.; pop. abt. 738.

Grif'er's Point, in Pennsylvania, a P. O. of Perry co.

Gries'bach, Johann Jakob, an eminent German critic, B. in Hesse-Darmstadt, 1746, celebrated for his attainments in theological, biblical, and ecclesiastical literature, especially for his edition of the Greek gospole, with a critical history of the printed text, and examination of the various readings. D., professor of divnity at the university of Jena, 1812.

Grievance, (grivana,) n. [O. Fr. greenee.] That which causes grief or unesalness; that which burdens, oppresses, or injures—implying a sense of wrong done; hardship: injustice; trouble.

—Grief; affliction; sorrow.

Grieve, (grier) v. a. [D. grieven; Fr. gréver, to oppress; Lat. gravare, from gravis.] To cause grief to; to give pain of mind to; to afflict; to wound the feelings of; to inflict pain on; to make sorrowful; to excite regret in; to try to hurt.

"Grieven, if aught inanimate ever grieves.
Over the unreturning brave."—Byros.

"Grissing, if aught inanimate e'er grisses, Over the unreturning brave,"—Byron.

ourn; to lament; to sorrow over; as, he grieves his ill luck

v. s. To feel grief, or pain of mind and heart; to lament; to sorrow; to mourn; to be in affliction;—often before at or for. "Do you not priese at this?" Shale.

Grieve, (,rec.), s. [Gael. graf.] In Scotland, a land-steward; the bailiff of a manor; a ground-reeve; the factor of an estate.

Grimaldi, (gre-mal'dee.) the name of an illustrious

factor of an estate.

Griev'er, n. The person who, or thing which, grieves.

Griev'engly, adv. In sorrow; sorrowfully.

Griev'ous, a. Causing grief; heavy; oppressive; burdensome; afflictive; painful; distressing; hard to be borne; as, a grievous misfortune. — Atroclous; offensive; tending to irritate or make angry; flagitious; hurtful, believes, and province offense. hurtful; heinous; as, a griceous offence.

"It was a griceous fault,
And griceously bath Coser answer'd it."—Shake

—Exhibiting sorrow; expressing great grief or affliction. ' He sent grievous complaints to the parlia Griev'ously, adv. In a grievous, calamitous, or heinous manner.

Griev'ousness, n. State or quality of being grievous

sersevousmess, n. State or quality of being grievous; oppressiveness; pain; affliction; calamity; distress.

Enormity; atrociousness.

Griffin, Griffon, Gryph'on, n. [Fr. griffon; Lat. gryps, gryphis, also gryphus, from Gr. grypos, having a crooked nose or beak.] A fabulous animal, supposed to be generated between a lion and an eagle. It is represented with

posed to be generated between a non and an eagle. It is represented with four legs, wings, and a beak, the up-per part resembling an eagle, and the lower having the characteristics of a lion. This imaginary animal was supposed to watch over gold-mines and all hidden treasures, and was consecrated to the sun, whose chariot some of the ancient painters represent as drawn by griffins. Spanheim states that both the charlots of Nemesis and Jupiter were likewise provided with similar steeds. The griffin is found on many old medals; and it seems to have been a principal ornament of Grecian



architecture.

(Her.) The G, is the symbol of strength, swiftness, courage, and vigilance; and it thus finds a place on many escutcheons. It is usually biasoned rampant, although escutcheons. It is usually biasoned rampant, although occasionally represent is thought to be its proper position. The G. mentioned sometimes in Scripture was a species of engle, called by the Latina ossifyraga, or esprey. (Zodl.) A name applied by Cuvier to the genus Granches, q. v., and by Linneus to the condor, Vultur graphus.—See CONDOS.

gryphus. — See CONDOR. Griffin, in Georgia, an important city, cap. of Spalding co., ou 2 railroads, 43 m. S. of Atlanta. Pop. (1897) about 5,190.

about 5,190, Griff fin, in Texas, a post-village of Cherokee co., about 17 m. N. by E. of Rusk.

Griff fin, Gerald, an Irish novelist, born at Limerick, 1803. The Collegians, the most successful of his novels, contains pictures of Irish life unsurpassed in truthfulness. Died 1840.

driff fin Cove, a village and harbor of prov. of Quebec, co. of Gaspé, about 7 m. N. N. W. of Cape Razier; Lat. 48° 55′ N., Lon. 64° 23′ W.

Griffin's Corners, in New York, a post-office of Deliware co.
Griffin's Mills, in New York, a post-village of Eric co., on Cazenove creek, about 15 m. S. E. of Buffalo.
Griffinwille, in Nowa, a post-office of Appanoses co.
Griffithswille, in W. Virginia, a P. O. of Lincoln co.
Grigg, w. [L. Ger. kricks, a little duck.] The sand-esl-moor-land; heath. (Prov. Eng.)—A merry creature.
(Supposed to be a corruption of Greek, from the Latin saying, Greeculus festivus—"as merry as a Greek.")
Grigg's Corners, in Ohio, a P. O. of Ashtabula co.
Griggs's Corners, in Ohio, a P. O. of Ashtabula co.
Griggs's Corners, in Ohio, a P. O. of Ashtabula co.
Griggs's Corners, in New Jersey, a post-village of Somerset co., about 9 m. S. of Somerville.
Griggs'ville, in Illiana, a city of Pike co., on Wabsal R. R., 32 m. W. of Jacksonville. Pop. (1897) abt. 1,560.
Grigman, Françoise Marguerre de Sevient, (Courress Dr.) (green'yang) an accomplished French lady, p. 1648, was the daughter of the celebrated Madame de Sévigné, and author of a Résumé of the system of Fénélon. D. 1706. — The small town of Grigman, of which her busband was the seigneur, and where she died, is in the dep. of the Drome, 16 m. S.W. of Montélimard.
Grigo'ta. See Tabasco.

Grilo'ta. See TABASO.
Grill, v. a. [Fr. griller—grille, a grate, cont. from Lat.
craticula, dim. of crates, a grate.] To broil, as on a grate or gridiron.

'A sumptuous supper of a spatchcock, orilled bones, an To torment, as if by broiling: to roast, as with batter.

Grillade', n. [Fr., from griller. See Grill.] Act or art of grilling; also, anything broiled on the gridiron; as a grillade of chicken.

Grillage, (grill'dj.) n. [Fr., from grille, a grating.]

A framework of timber bulks and cross-beams, used in the construction of user &c. on marshy grounds.

the construction of piers, &c., on marshy grounds.
Grille, n. [Fr.] A grating; a lattice-work opening in a

gate, &c. Grilse, n. A salmon of the second year.

Grim, a. [A.S. and Dan., grim, ugly, savage; Swed. grymm, horrid; It. grima, old, wrinkled.] Fierce; ferocious; of forbidding aspect; furious; frightful; ghastly;

cious; of forbidding aspect; furious; frightful; ghastly; hideous; ugly; surly; sour-looking; as, grim death.

"The whirlwind... hush'd in grim repose."—Gray.

Grimmace, (gri-mdx'), n. [Fr.; Ger.; grimasse, distortion of the face, from grimm.] A distortion of the countenance, whether proceeding from habit, affectation, or insolence; a smirk.

"Demure looks... set off with odd devotional grimaces."—South.

—An air of affectation.

"Vice in a vizard, to avoid grimace." — Granville.

Crabbed look.

Grimaldi, (gre-mal'dee.) the name of an illustrious family of Genoa, distinguished as partisans of the Guelphs, the principal members of which were:—RANKER GRIMALDI, a mayal commander, served as admiral of France in 1314. ANTONIO GRIMALDI, also a mayal com-France in 1314. ANYONG GRIMALD, also a usual com-mander and admiral, at length defeated by the combined fleets of Catalonia and Venice, under Pisani, in 1853. Giovanni Grimado, renowned for a great victory over the Venetian admiral, Nicolo Trevisani, in May, 1431. DOMENICO GRIMALDI, cardinal-archbishop, and vice-lega-to Avignon, distinguished at the battle of Lepanto, 1671; D. 1592. GERONINO GRIMALDI, papal nuncio to Germany and France, and a distinguished philanthropist, 1597-

Grimal'kin, n. [A corruption of gray malkin, a gray old witch supposed to resemble an old cat.] An old cat " Grimalkin, domestic vermin's everlasting foe." - Philips.

Grime, n. [Icel. grima; Swed. grum, grounds, drega.]
Foul matter; dirt; sullying blackness not easily
cleansed; smut; sootiness.
—e. a. To dirt; to ingrain deeply with foul or sooty matter.

—v. a. To dirt; to ingrain deeply with rout or sooty matter. Grimes, in Texas, an E. central co.; area, abt. 750 sq. m. Rivers. Brazos and Navasito or Navisota rivers, and Spring Creek. Surface, principally rolling prairie; soit, very fertile. Cap. Anderson. Grima'ly, adv. Fiercely; feroclously; with a look of sternness or grimness; sourly; sullenly.

"The augurs . . . look grimly." - She

"The sagurs... look grienty." — Shake.

Girimmen, Jacon Ludwig, a distinguished German philologist, R. at Hanau, in Hesse-Cassel, 1785. He was educated at the university of Marturg, and in 1806 spent some months at Paris as assistant to Savigny. Three years later he was appointed librarian to Jerome Bonaparte, king of Westphalia, and had leisure for his favorite studies in early German literature. On the overthrow of the new kingdom of Westphalia, in 1813, he was made secretary of legation, under the restored electorate, and in that capacity was present at the Congress of Vienna. He held the office of sub-librarian to the elector from 1816 till 1829, his younger brother, Wilhelm, being also employed in the library. In the latter year he became first librarian to the university of Göttingen, which post, with a professorship, he held till 1837. In that year he was dismissed, as was also his brother from his similar office, for protesting against the violation of the constitution of the king of Hanover. In 1841 they both settled at Berlin, as professors in the university, and members of the Academy of Sciences. Among the principal works of this great scholar are Deutsche Gyramatik. Deutsche Mythologic, and Geschichte der Deutsches Sprache. The great Deutsches Wörterbuch, the joint production of the two inseparable brothers, and perhaps their most important work, was left unfinished by them. but is in course of completion on their and perhaps their most important work, was left un-finished by them, but is in course of completion on their plan, and from their materials. The well-known Kindernd Haus-Mürchen was also their joint work. Jacob D

1863.
Grimama, Friedrich Malchior, Baron Dr., counsellor of state of the Russian empire, and a man of letters, B. in 1723, at Ratislon. Going to Paris, he became principal secretary to the Duke of Orleans, and acquainted with secretary to the Duke of Orleans, and acquainted with Rousseau and other Parisian philosophers; an account of whose writings, friendships, disputes, &c., has been preserved in his Correspondence, which extraordinary medley, after a lapse of 30 years, was published in 16 vols. A supplement to this is the Correspondence inédit de Grisma et Diderot, (Paris, 1829.) It contains a complete history of French literature from 1753 to 1790, and is remarkable for its brilliancy and piquant criticism. In 1776 G. was appointed envoy from the Duke of Sax-Gotha to the French court. On the revolution breaking out he retired to the court of Gutha where he found a out, he retired to the court of Gotha, where he found a safe asylum. In 1795, the empress of Russia made him her minister plenipotentiary to the states of Lower Saxony; and he was confirmed in that post by Paul I., and retained it till ill health obliged him to relinquish it. He then returned to Gotha, where he D., 1807.

Grim'ma, a walled town of Prussia, in Saxony, on the Mulde, 18 m. S.E. of Leipsic. Manuf. Cloths, woollens, and finnels. Pop. 6,500.
Grim'ness, n. Quality of being grim; flerceness or sternness of look; crabbedness.
Grims'by, (Great,) a senport-town of England, in Lincolnshire, on the Humber, 15 m. S.E. of Hull; pop. 20, 244.

Lincolnshire, on the Humber, 15 m. S.E. of Hull; pop. 20,244.

Grimm'by, a vill. of prov. of Ontario, co. of Lincoln.

Grimm'ville, in Penssylvania, a post-office of Berks co.

Grimm'yi. on ity; foul; smutty: containing grime.

Grim, v. n. [A. S. grinnian; It. digrignare, from Lat. ringor, rictus.] To set the teeth together and withdraw the lips; or to open the mouth, and part the lips from the teeth, so as to show them in anger, pain, or mirth.

—To fix or set the teeth, as in anguish.

—n. Act of closing the teeth, and showing them, or of opening the lips and exposing the teeth.

"All nature wears one universal gria." Fielding.

"All nature wears one universal grin." - Fielding.

v. a. To express by grinning.

" Grinn'd horribly a ghastly smile." - Milton.

Grind, (grind,), a. (imp. and pp. GROUND.) [A.S. grindan, to bruise; Goth. grind, small; Swed. & Goth. gryn, corn slightly bruised; allied to Ger. trennen, to separate, to rend.] To break and reduce to fine particles or powder by friction; to triturate; to break and reduce to small pieces by the teeth.

"Though the mills of God grind slowly, yet they grind exosing small." — Longfellow.

-To sharpen by rubbing or friction; to polish by attri-tion, as glass; to rub, as one against another; as, to grand the teeth.

Against a stump his task the measter origin." To harass; to oppress; to cause trouble or affliction to; to make exorbitant or unjust demands upon.

"Laws grind the poor, and rich men rule the law." —Ge To read up for honors; to prepare for examination; to go through the curriculum of study; as, he is grissing for his degree. (Used at the English universities.) v. n. To perform the operation of grinding; moved, or rubbed together, as in a mill.

"Smeary foam works o'er my grinding jaws." -

To be ground, triturated, or pulverised, by friction; as, this coffee grinds fine. — To be polished or made smooth tims conce greats and.— To be pointed or made amount by friction; to be sharpened by grinding; as, this are grinds badly.—To drudge; to perform incessant and distasteful labor.

Grind'ed, old pp. of GRIND. Ground.
Grind'er, s. One who grinds, or the instrument used
in grinding.—A tooth that grinds or chews food; a in grinding.—A tooth molar; a double tooth.

"The back-teeth, which we call the molar teeth, or gwi

pl. The teeth in general; as, "whetted grinders."

Grind'ery, s. In England, the name given to sho-makers' materials generally.

Grindery worshouse, in England, a shop where shoe-makers' materials (grindery) are kept for sale. (The equivalent American term is finding-store.)

Grind'ing-frame, s. A frame used in cotton-spin-ture.

Grind'ingly, adv. In a grinding manner. Grind'ing-slip, n. A hone; a sharpening-stone for knives

Grin'dle Creek, in N. Carolina, enters Tar Biver in Pitt co.

Grind'let, n. A small drain or outlet.

Fitto.

Grimd'1et, n. A small drain or outlet.

Grimd'1et, n. A small drain or outlet.

Grimd'3etome, n. A flat circular stone, made to revolve upon an axis, and used for grinding steel, glam, other stones, &c. They are made of sandstone, or sandstone grit, of various degrees of coarseness, according to the purpose for which they are to be used. It has been found that a disc of soft iron, revolving with great repidity, will easily cut the hardest steel. In like manner, silicious minerals, such as agate, onyx, chaicedony, jasper, &c., may be rapidly cut to any shape by means of large grindstones revolving very rapidly.

To hold one's some to the grindstone, to keep one down, or in a state of durance or servitude.

Grim'mell, in lowe, a fine manuf, city, of Poweshiek co., 55 m. N. E. of Des Moines, at Junction of C., E. I. & P. and Ia. Central R. Rs.; partially destroyed by a tornado in June, 1832. Pop. (1895) 3,232.

Grim'mell Lamd. A mountainous tract of polar land on the west side of Kennedy channel, which separates it from Greenland, and extending from Jones' Sound to Lat. 20° 30' N. It was discovered by Dr. Hayes, of Kane's expedition, in 1854, and named after Henry Grinnell, of New York, the patron of the expedition. It was thoroughly explored by Greely in 1882. It is covered with ice caps N. and S., between which lie valleys free from snow in summer, and which support herds of musk ox and other Arctic animals.

Grim'mer, s. One who grins.

Grim'mer, s. One who grins.

Grim'mingily, ade. In a grinning manner; with a grinning laugh.

Grip, n [Dan. grab. See Grips.] A gripe; a grasp; s holding fast; force or power exerted in grasping; as. strong grip. — A peculiar method of clasping the hand, practised by members of secret societies for the purpos of recognizing brethern; as, the Freemason's grip. — A handle; that by which anything is grasped; as, the prip

of recognizing brethren; as, the Freemason's grip. — A handle; that by which anything is grasped; as, the grip

handle; that by which anything is grouped, where of an axe.

—v. a. To grasp; to lay hold of firmly; to seize; to gripe; as, to grip a person by the arm.

Gripp, n. [D. groep.] A small gulley, ditch, or furrow.

Grippe, v. a. [A. 8. gripan; D. grippen; Ger. greifen; Icel. gripa, to seize; Sansk. grabh, to seize. See Graspts and Grasp.] To seize or grasp with the hand; to catch with the hand, and clasp firmly with the fingers; to hold fast; to grip; to squeeze; to clutch.

"He...doth gripe the hearer's wrist."—Shake.

"He ... doth gripe the hears's wrist."—Saek.
-To embrace closely; to seize, or hold fast greedily or covetously; as, a "griping hold." Dryden. — To piach; to press; to straiten; to distress; as, gripping poverty.—
To give pain to the bowels, as if by spasms or contrac-

tion.

v. n. To seize or catch by pinching; to exact mose,
by harshness or meanness; as, a griping usurer.—To
feel colicky pains; as, "the gripings of a hungry belly."

Letz.

(Naut.) To bring up into the wind;—said of a ship.
Gripe, n. Grasp; seizure; fast hold with the hand or
paw, or with the arms; grip; clutch.

"They put a barren s eptre in my grts

A handle; that on which the grasp is laid; as, the grips of a cutlass. — Oppression; crushing power; pinching penury or distress; cruel affliction; exaction. Canst thou . . . endure the bitter gripes of smarting poverty?

pl. (Med.) Pinching pain in the bowels; colic; belly

ache ache.
(Naut.) The lower part of the knee of the basd that
connects with the foremost end of a ship's keel; the
forefoot.—The compass of a vessel's stern under water.
(pt.) The assemblage of ropes, tackle, &c., fastesings
ship's boats to ring-bolts on deck. Gripe'ful, a. Having a tendency to gr Grip'er, n. One who gripes; an oppres an extertioner. Having a tendency to gripe.

Grip'er, a. One who gripes, as opposed an extortioner.

Grip'imgly, adv. In a griping manner.—With a colicky pain in the bowels.

Grippe, (grip,) a. [Fr.] The influenza.

Grisse, a. Same as GRICS, q. v.

Grisse, d. Same as GRICS, q. v.

Grisse dia, (grir'el-dis.) (Lit.) The name of the heroing of a popular tale of the Middle Ages, originally apparently Italian, but which was subsequently adopted by various other nations. She was, originally, a poor charcoal-burner, whom the Marquis Walter de Saluzzo took to wife, and then put her humility and obedience to the hardest tests; but she having victoriously surmounted them, a reconciliation took place. As a tale, said to have an historical foundation, we first meet with it in Boccaccio's Decameron (z. 10). It was translated into Latin by Petrarch in 1373, and in the 15th century it was well known in Germany. It was dramatized in Latin by Petrarch in 1373, and in the 16th century it was well known in Germany. It was dramatized in Paris in 1393, in England in 1599, and in Germany, by Hans Sachs, in 1546.

Griscous, a. Of a mottled gray or grissled color.

Griscotte, (pre-set), n. [Fr.: Sp. griseta, from Fr. gris, gray, from young women of the working-classes wearing groups of gray staff.] In Paris and American Sachs.

gray, from young women of the working-classes wearing gowns of gray stuff.] In France, a young woman whoearns her own livelihood by daily labor, but who conducts her own household, and lives independently.

Griss, (gröze.) Giulla, the eminent Italian vocalist, upon whom her contemporaries conferred the proud title of "Queen of Song," was born in 1812. Her father (Garcia) was an officer of engineers in the army of Napoleon I., and her annt the once famous cantartice Josephine Grassini. Giulia was educated in a convent at Girizia, and it is said that the success on the operatic stage of an elder sister, who died early, induced her to choose the same profession, although at the time her voice gave little promise. She made her dibût at Bologna in a contraito part, appeared in Romeo & Giultus at Florence and at Milan, and made her first appearance in Paris and London in 1834, as Ninetta in La Gazza Ladra, where she achieved a decided success. Every part which she assumed afterwards steadily increased part which she assumed afterwards steadily increas her reputation, which may be said to have been compart which she assumed afterwards steadily increased her reputation, which may be said to have been established by her impersonation of the Queen in Semiramide, and of Donna Anna in Don Gimenni. Her fame reached its climax in her readition of the rôles of Norma and Lucrezia Borgia, in which characters her singing and dramatic acting have never been surpassed. Marksme G. was twice married: on the second occasion to the unrivalled tenor Signor Mannet Marquis de Candia) by whom she had a family. This gifted lady D. in 1870. Grisfkin, m. The spine or vertebrae of a pig; as, a roasted grizkin of pork.

Grisle'a, n. (Bot.) A genus of plants, order Lythracese.

roasted grassin of pors.

Grisle'a, n. (Bot.) A genus of plants, order Lythracee.

The flowers of G. tomentusa are employed in India, mixed with Morinda, for dysing, under the name of Dhace.

Grisled. a. See GRIEZIED.

Grislimens, n. State or quality of being grisly or

Grisley, a. [A. 8. grislic, from agrisan, to dread; Ger grisslich, horrible, ghastly.] Frightful; horrible; ghast ly; terrible.

"Thus the griely spectre spoke again."—Dryden.

Gris'ly Bear, n. See Gaiszlf.

Grisenes, (gree'nay.) a headland of France, dep. Pas-de-Calais, situate Lat. 50° 52' N., Lon. 1° 23' E. There is a light-house.

Calla, Stute Lat. 50° N., 100. 102 M. Infer is a light-house.

Grifson, a. [Fr., from griz, gray.] (Zoz.) The Glutton, genus Guo., q.v.

Grisons, (gree'zong.) [Ger. Graubänden.] The most S.E. of the cantons of the Swiss Confederation, bounded on the E. by the Tyrol, N.W. by St. Gall, Glarus, and Urt, S. by Ticino, and S.E. by Lombardy. Area, 2,960 sq. m. Prod. Fruit, corn, hemp, and flax, but cattle are the prime source of wealth to the majority of the inhabitants. Manuf. Cotton and domestic fabrics. The canton is divided into five great valleys, and is mountainous throughout, being intersected by various lofty ranges of the Alps. Iron, lead, and sinc are known to exist, but the mines are not worked. Php. 101,000.

Griss, n. [A. S., from grindan, to grind.] As much grain as is carried to the mill at one time, or the meal it produces.

Get eries to the mill to have plenty in store." Tueser's Bushendry.

Get grist to the mill to have plenty in store." Tu

-Provision ; profit ; gain.

" Form must fail if matter brings no grist."-Swift.

Gristle, (grisi), n. [A.S.; allied to Lat. cartilago, a cartilago.] (Anat.) A cartilago; a smooth, solid, elastic substance in animal bodies.—See Cartilage.

Gris'tly, a. Cartilaginous; consisting of, or resembling

Grist'-smill, m. A mill for grinding grain; especially, a mill for grinding grists, or portions of grain brought by different customers.

Grist'-weld, in Connectical, a post-town of New London co. about 45 m. E. S. E. of Hartford. Pop. (1890) 3,113.

Grist'-weld, in Iowa, a post-town of Cross co., on C., B. & Q. and C., R. L. & P. R. Ra, 97 m. S. W. of Des Moines.

Descriptions:

& Q. sud C., R. L. & P. R. Ra, 97 m. S. W. of Des Moines. Pop. (1886) 937.

Gris'weld, in Michigen, a P. O. of Kent co.

Gris'weld, in New York, a post-village of Oregon co.

Gris'weld, in New York, a P. O. of Chantauqua co.

Gris'weld, in North Dukota, a P. O. of Lamoure co.

Gris'weld wille, in Georgia, a post-office of Jones co.

Gris'weld wille, in Massachusetts, a post-village of

Franklin co. Franklin co.

Frankin co.

Grita, n. [A. 8. great, sand. dust; Ger. grice, grave); grüise,
grita, groats. See Grind.] The coarse part of mesi.—

sand or gravel; rough, hard particles.

Obstructing grit and restive mart." - Page

A substance or structure suitable for grinding well; as, a hone of good grit.—(pl.) Oats hulled, husked, or coarsely ground.—Spirit; courage; firmness of mind or resolution; pluck; spunk; as, he's got real grit about him. (U.S. Colloq.)

(Geol.) A hard, silicious sandstone; as, milistone grit.

(Sometimes called grittone, and gritrock.)
v. n. To give forth a grinding sound, as of sand under

The sanded floor that grits beneath the tread." -v. a. To grind; to grate; as, to grit the teeth. (Used colloquially.)

.—e. a. To grina; to grate; as, to grat the teeth. (Used colloquially.)

Grita (Lan), (la gro'ta.) a town of Venezuela, dep. of Zulia, in the prov., and abt. 66 m. S.W. of the city of Merida.

Grit'sineas, n. Quality of containing grit, or consisting of grit, sand, or small, hard, rough particles of stone.

Grit'sy, a. Containing or consisting of sand or grit; characterized by hard particles.—Resolute; courageous; steadfast; plucky; as, a gritty bet. (U. S. colloq.)

Grizzielin, a. Same as Gridziin, q. v.

Grizziel, (griz'd, n. [Fr., Span., and Pg. griz, gray.]

Gray; a mixture of white and black; a gray color.

'His hair just grizzied as if in green old age."—Dryden and Lee.

Grizziely bear. (Zool.) See Brar.

Grizziely bear. (Zool.) See Brar.

Grizziely Flats, in California, a post-office of El Dorado co., abt. 20 m. Sk. of Placerville.

Groan, (gron,) v. v. [A. S. granian, gruson; W. gruso, a na contiller and man a manufacture of the post-office of El Dorado co., abt. 20 m. Sk. of Placerville.

Dorado co., abt. 20 m. S.E. of Placerville.

Groam, (groin,) v. a. (A. S. granian, grunan; W. grun,
a rumbling sound, a murmur; grunan, to make a droning noise; formed from the sound.] To utter a mournful voice, as in pain or sorrow; to moan; to sigh heavily;
to breathe with a deep murmuring sound; to complain of oppression.

"Repenting and growing for angulah of spirit."-Wied. v. 13.

To seek after seriously, as with groams.

A deep mournful sound, uttered in pain, sorrow, or anguish; any low, rumbling sound; sometimes, a deeptoned cry of derision, — in this sense opposed to cheer; as, his speech was interrupted by groams from his auditory.

"Where hopeless anguish pour'd his Great, (gravet,) n. [D. groot; L. Ger. grot, great.] Formerly, an English coin of copper or brass, as distinguished from the small copper coin, of which there were five in the groat;—in the modern sense, an English money of account, equal to four pence, or 8 cents;—hence, a proverbial name for a small sum.

much his inferior, and without a great to her fortur Groats, (grawts,) n. pl. [See GRIT.] Wheat or oats in shulled state.

hulled state.

Enden groats. (Orm.) Crushed oaten groats.

Groveer, n. [0. Fr. grossier, from gros, gross, great.]

Originally, one who sold goods in the gross or by wholesale; in modern acceptation, a merchant or tradesman
who deals in tea, coffee, sugar, spices, liquors, fruits, &c.

Groveery, n. The articles or commodities sold by grocers; applied in the singular in England, in the plural
in the U. States.— In the U. States, a grocer's store.

Or England

cers; applied in the singular in England, in the plural in the U. States. — In the U. States, a grocer's store. (In England, grocer's, shop, or, colloquially, the grocer's, of Frod'me, a city and port of European Russia, chief town of the govt. of Grodno, in Lithuania, 90 m. S. W. of Wilna, on the right bank of the river Niemen. Manuf. Cloth, silk, gold and silver ware. Fop. 19,800.

Groce'beck, in Ohio, a post-office of Hamilton co.

Groce'beck, in Ohio, a post-office of Hamilton co.

Groce' Beck, in Panaylvania, a P.O. of Lancaster co.

Grog, a. [The English Admiral Vernon, after the reduction of Porto Belio, 1739, introduced the use of rum and water among his ships' crews. In bad weather he was in the habit of walking the deck in a rough grogram clock, and thence had obtained the nickname of Old Grog in the service. This is believed to be the origin of the term grog, applied originally to rum and water.] A mixture of spirits and water, taken cold without sugar. (The term hot grog is sometimes applied to rum-oussch)

water. J A mixture of spirits and water, taken cold without sugar. (The term hot grog is sometimes applied to rum-punch.)
Grog'sblossom, n. A rubescence found on the noses or faces of men who indulge in ardent liquors to excess.
Grog'gery, n. A grog-shop; a tavent where spirits are sold.

Grog'giness, n. State or condition of being groggy or obtuscated with liquor.

(Manege.) A stiffness in a horse's foot which causes a

hobbling motion of the leg.

Grouggy, a. Tipsy; fuddled; intoxicated with liquor
(Vulgar.)

—Blown: tottering with weakness in a fight; aa, a groggy

puglist.
(Mange.) Moving in a jerky, hobbling manner, owing
to a tenderness or stiffness in the foot; — said of a horse.
Grog/rams, Grog/rams, s. (O. Fr. grosgrams, grogram; It. grossagrama, coarse grain.) A kind of stuff
made of silk and mohair, and having a coarse grain or
taxture.

adam in her gregra m gown."-

Grog-shop, n. A groggery; a store, shop, or tavern where spirituous liquors are sold by retail.
Groin, s. [Icel. grein, a branch; Swed. & Goth. gren, a branch, from grend, to divide, to separate.] The part of the human body where there is a division or separation between the belly and thighs in front.

Groin, v. a. (Arch.) To form into groins; to embellish with groins.
"The hand...that greined the aisles of Christian Rome."

(Arch.) The angle formed by an intersection of vaults (a a, Fig. 1203) Most of the vaulted ceilings of the Middle Ages were groined, and therefore called groined cellings. During the early therefore called groined ceilings. During the early part of the Norman style the groins were left purposely plain, but afterwards they were invariably covered with ribs.

(Coast-Engineering.) In England, a frame of woodwork, constructed across a beach, between high-and low-water mark, perpendicular to the general line of it, either to retain the shingle already accumulated, to recover it when



Fig. 1208. -A GROINED VAULT.

lated, to recover it when leat, to recover it when leat, or to accumulate more at any particular point; also to break and check the action of the waves. The component parts of a G. are piles, planking, land-tics, land-tice bars, blocks, tail-piles, krys, and screw-boits. The length of a G. depends on the extent and the requisite strength of its component parts, and on the nature of the beach on which it is to be constructed. (Sometimes written groups.)

the beach on which it is to be constituted written groupse.

Groined, a. (Arch.) Having an angular curve made by the intersection of simple vaults crossing each other; as, a groined celling.

Groin'et, n. See Grommer.

Groin'et, R. See Grommer.

Groin'et, R. (Nast.) A ring or loop made at the end of a piece of rope by intersplicing the

made at the end of a piece of rope by intersplicing the strands.

(Ordinance.) See GRUMMET.

Gree Mingem, a fortified city and sea-port of Holland, cap. of the province of the same name, on the liume, 87 m. N.E. of Amsterdam. Manuf. Paper, butter; and it has also ship-building docks, and a large trade in cattle. The university, founded in 1614, endowed with the revenues of sundry abbeys, has maintained a very high character for the grade of scholarship imparted. Pop. 37,634. — The province of G., situated in the N.E. of Holland, is bounded N. by the German Ocean, E. by Hanover, and S. and W. by Drenthe and Friesland. Area, 886 sq. m. Its chief wealth lies in its pastures. Pop. 229,018.

Gree Mingemist, n. (Eccl. Hist.) One of a subdivision

Gro'mingemist, s. (Eccl. Hist.) One of a subdivision of the sect of Anabaptists, formed at Grüningen, Hol-

Groom, n. [Belg. grom, a boy; Ir. graiméir, a groom; Armor. grom, a curb.] A man or boy who has the charge of horses; one who takes care of horses or the stable. "Many a squire attends, and many a greem." — Feirfax.

In England, the term applied to several officers of the royal household, in the Lord Chamberlain's department; as, Grooms of the Chamber, Grooms-in-waiting, Groom of the Biole (keeper of the robes), &c. See Groom-

PORTER. v.~a. To tend, feed, and take care of, as a groom does

Groom, s. [A.S. and Goth. guma, a man; W. gur, a man. The W. r seems to have been adouted into the man. The W.r seems to have been adopted into the A.S. gassac, as it does not appear in any other of the Teutonic forms.] A man recently married; or one who is accompanying his intended spouse in order to be mar-"The bridge are waked, their grooms are dressed."—Druden

ried; a bridegroom.

"The brideg are wated, their grooms are dressed."—Drydon.

Groom'-porter, n. In England, a former officer of the royal household, in the Lord Steward's department, who succeeded to the place of Master of the litevels, and superintended all sports, &c.

Grooms, in New York, a post-office of Saratoga co.; formerly Groom's Conness.

Grooms'man, n. A bridegroom's attendant, or "best-man," at his nuptulas; — correlative to bridesmaid.

Grooms'port, a fishing-village and coast-guard station of Ireland, co. of Down, Ulster, abt. 3 m. N.W. of Donaghadee; pop. abt. 568. Memorable as the lauding-place of the Duke of Schomberg's army in 1690.

Grooms'wille, in Indiana, a P. O. of Tipton co.

Groop'er, n. (Zoil.) See Groupers.

Groot, n. [Ger.] A small coin, current in N. Germany, equal to abt. 1 cent.

Groows, n. [A.S. graf, graf; D. graf; Ger. grab; Dan. grav; Icel, groff, a grave. The A.S. is from grafan, to grave. See Grave.] A channel, hollow, or furrow cut by a groove; a channel in the edge of a moulding, stile, or rail; a sunken rectangular channel. — Usually employed to connect two pieces of wood together, the piece not grooved having on its edge a tongue, or projection, whose section corresponds to and fits the groove. (Mining.) In some parts of England, the term given to a shaft or excavation.

(Mil.) In rifled fire-arms, two or more furrows, cut in a spiral direction in the interior of the barrel. The parts of the barrel between the grooves are called lands.

-c. a. To cut a clasmel with an edged tool; to furrow.

parts of the barrel between the grooves are called lands.
e. a. To cut a channel with an edged tool; to furrow.
"Of the box every joint was well grooved." — Swift.

A miner. (Used in some of the English.

Groov'er, n. A miner. (Used in some of the English mining districts.)
Groov'ing, n. A groove, or collection of furrowed cuttings.

Groe'ver's, in Georgia, a small village of Effingham

county. County.

Grope, r n. [A. 8. gropins, gropen; closely allied to gripe and grasp.] To feel along, as with the hands; to Digitized by search or attempt to find in the dark, or after the manner of a blind person, by feeling;—hence to seek blindly in intellectual darkness, without a guide or certain means of knowledge.

Generation, n. [Eng. gross, and Lat. facere, to make.] Act of making gross, solid, or thick.

(Box.) The swelling of the ovary of plants after fermination.

"O truth divine! enlightened by thy ray,
I grope and guess no more, but see my way."— Arbuthaot.
a. To search by feeling in the dark; as, we were obmed to arope our way.— To sound; to scrutinize; to v. a.

liged to grope our way. — To sound; to scrutinize; to examine insinuatingly.

"Felix gropeth him, thinking to have a bribe." — Acts. xxiv. (Gense. Test.)

Grop'er, n. One who gropes, searches, or feels his win the dark.

in the dark.

Grop'ingly, adv. In a groping manner.

Grop'ingle, n. (Min.) A hydrous silicate of alumina, containing small quantities of oxide of iron, magnesia, lime, soda, and potash. Color, red; sp. gr. 273. Occurs at Gropptorp, Sweden.

Groro'ilite, n. [From groros, a French town, and Gr. lithos, stone.] (Min.) A brownish-black variety of Wan g. v.

lithos, stone.] (Min.) A Drownian-Diack variety of WAD, q. v.
Gros, (grô.) [Fr.] Thick; heavy; strong;— used in many compound words applying to silken fabrics; as, Gros de Naples.
Gros, Antoine Jean, Baron, a distinguished French painter, professor of painting at the Ecole Royale des Beaux Arts, s. at Paris, 1771. His pencil was chiefly devoted to the illustration of subjects from the history of France during the career of Napoleon; and his picof France during the career of Napoleon; and his pic-tures, though coarse, are conspicuous for vigor and fa-cility of execution. D. 1835. lros beak, n. (Zoöl.) See Grossbark. lros chem, (groshn.) n. [Ger.] A allver current coin of Prussis of 30 to the thaler, or equivalent to 2 cents

and a fraction American.

From, a. [Fr. gros; It. grosso; Sp. grueso; Gr. gross L. Lat. grossus, corrupted from Lat. crassus, dense, fla Huge; great; excessively large: — in applica mimals. thick.]

'The grows and choughs . . . show scarce so gross as beetles.' Thick; huge; corpulent; dense; without tenuity; as a gross material.

" A gross fat man ? - Aye, fat as butter." - 5

-Coarse; rough; crude; inelegant; opposed to delicate as, a gross sculpture. (Wotlow.)—Stupid; dull; obtuse without sensibility or quickness of perception. "Tail of her of things that no gross ear can hear."—Mileon.

"Tell of her of things that no gross ear can hear." — Milton.

—Vulgar; obscene; indelicate; impure; as, gross sensuality, a gross expression. — Great; palpable; as, a gross mistake, a gross breach of decorum. — Whole; total; entire. — as opposed to a sum or quantity consisting of several parts or amounts; as, gross proceeds.

Gross adventure. (Marit. Law.) The contract of bottomy. See Borrower. — Gross average. (Mar. Law.) That kind of average which falls on the gross interests involved, or, in other words, the entire value of ship, freight, and cargo; — in contradistinction to particular average. (It is more frequently termed generul average.)

Gross, n. The bulk; the mass; the main body; the major, chief, or principal part; as "the gross of the people." — Burke.

"In the gross and scope of mine opinion." — Shake.

' In the gross and scope of mine opinion." - She

-The number of 12 dozen, or 12 times 12; as, a gross of

In gross, in the gross, in the bulk; all parts taken to-In gross, in the gross, in the bulk; all parts taken together; the aum-total, or the whole undivided; as, a shipment in the gross.—Advonson in gross. (Law.) A personal advonson, or one not manorial.—A great gross, 12 gross, or 144 dosen.—By the gross, taken in the lump, or by the quantity. "He hath ribbons... the by the gross." (Shake.)—Gross vosight. (Com.) The weight of goods or merchandise with that of the dust or dross, or of the cask, package, &c., in which they may be contained. After deducting an allowance for tare and tret (and, sometimes, draft), the remaining weight is termed met.

rossa les, n. pl. (Bot.) An alliance of plants, sub-class Epigynous Exogens. Diag. Dichlamydeous poly-petalous flowers, numerous minute seeds, and a small

class Epigynous Erogens.

petalous flowers, numerous minute seeds, and a small petalous flowers, numerous minute seeds, and a small embryo lying in a large quantity of albumen. It is divided into 4 orders, viz., GROSSULARIACES, ESCALLONIACES, Phase Petalous, Petalous of birds, family Pringitude. There are a great variety of birds, family Pringitude. There are a great variety of birds, family Pringitudes of the Finch kind. They are distinguished by a strong and their general appearance is very similar to birds of the Finch kind. They are distinguished by a strong and thick bill, by means of which they are enabled to break the stones of cherries and other fruit with the greatest facility. In general which they are enabled to break the stones of cherries and other fruit with the greatest facility. In general they are a shy, solitary race, chiefly residing at a distance from the abodes of man. Their feet have three toes before and one behind; and their food generally consists of fruits and seeds. Among the American species are the Evening G. Hesperiphona Vespertina, and the Pine G., Pinicola Cunadensis. The varieties in the color of this bird are white, yellowish-gray, and gray; the wings and tail are often white, and the plumage generally partakes of that color. The nest which the female builds is one of the prettiest kind, being colored and decorated with all kinds of brilliantly tinted mosses, and lined inside with down and feathers. The eggs are and lined inside with down and feathers. The eggs are of a bluish-green color, with brown spots. The bird is generally about seven inches long; it has no song worthy of notice

Grosse Pointe, in Michigan, a township of Wayne

Gronnetete Bayou, in Louisiana, a small river of Point Coupee parish.

ross'-headed, a. Obtuse; stupid; chuckle-headed;

Gra having a thick skull.

tilization. **Gross'ly**, adv. In a gross manner; coarsely; bulkily; without delicacy; as, grossly abused. **Gross'mess**, n. State or quality of being gross; thickness; coarseness; corpulence; enormity. **Gross'sular**, a. [From Lat. grosslate, a small fig.]

Grossullar, a. [From Lat. grassulus, a small fig.]
Pertaining to, or resembling a gooseberry.
Grossullar faces, grossul-div-cai'se-c, n. pl. [Lat. grossula, a gooseberry.] (Bot.) An order of plants, alliance Grossules. Diao. Pulpy fruit and parietal placents.— They consist of shrubs, natives of the temperate regions of Europe, Asia, and North America. Some of the apocies have spines and prickles. The leaves are alternate, lobed, and radiate-veined. The flowers are axillary, racemose, perfect, or rarely unisexual; with superior calyx 4-5-lobed; five minute petals inserted on the calyx; five stamens alternate with the petala, and inserted in the same manner: and an inferior 1-

on the calyx; five stamens alternate with the petals, and inserted in the same manner; and an inferior l-celled ovary, with two parietal placentas. The fruit is pulpy, with numerous seeds. There are but two genera and 96 species. Some are showy garden-plants; but they are mostly remarkable for their agreeable acid fruits, known as gooseberries, and red, white, and black currants, belonging to the genus Risss, q. v. Gross'sullarite, n. (Ain.) The time-dissain agarnet. It is a silicate of alumina and lime. Comp. Silica 40-1, alumina 227, lime 37-2. Some lime is often replaced by protoxide of iron. Color white, but varying to brown, yellow, and green, from the presence of iron manganese and rarely chromium. Sp. gr. 34-376. Clunamon stone (q. v.) is included in this variety. The original Gincluded a green variety from Siberia, and was named from Grosswalria, the botanical name for the gooseberry. Grosswalria, the botanical name for the gooseberry. Grosswalria, the botanical name for the gooseberry. Grosswalria, the botanical name for the gooseberry.

Proces' wardin, Groce' wardein, [Magyar, Nagy-Varad.] a fortified city of Austria, in Hungary, 135 m E. of Buda. Manuf. Linens, woollens, and cutlery. Pop 24.200.

A grotto. See GROTTO. Grot n

e in eool gret." — Lord Men

"Here in eool gret." — Lord Mornington.

Birate, George, D.C.L., P.R.S., an eminent English historian and essayist, is the son of a London banker, and was B. in 1794. He was educated at the Charterhouse, and devoted his adolescent years to banking and mercantile pursuits, passing his leisure in unremitting study of classical literature. While contributing important articles to the Reviews on political and poetical subjects, G. was busily engaged on his great work The History of Greece, the first vol. of which appeared in 1846, and the last in 1856. This work at once placed the author in the first rank of historians, and was followed, in 1865, by his Plato and the other Companions of Socrates. D. 1871.

Birochem Quee, (pro-Usk.) a. [Fr. from grotte, a grotto;

ry survives. B. 1011.
Fr. from grotte, a grotto;
It. grottesca; Sp. grotesca.] Wildly formed; whimsical;
extravagant; ludicrous; of irregular forms and proportions; odd; antic.

(Fine Arts.) A term applied to capricious ornaments which as a whole have no type in nature; consisting of figures, and make leaves, flowers, fruits, and the like, all connected together. This light, fantastic, and often very beautiful style was much in favor during the Re-



Fig. 1204. - GROTESQUE.

It was so called in the 13th cent., from its naissance. having been rediscovered in the excavations made in the Baths of Titus and other ancient Roman buildings, the Italian word grotto applying to any subterranean chamber.

rotesquely, (gro-tisk'le,) adv. In a grotesque or Grotesque'mess, n. State or quality of being gro-

Grotesque mess, n. State or quality of being grotesque. Grothite, n. (Min.) A titanite-like mineral from Plauen Grund, near Dresden. — See Titanite. Grotthite, n. (Min.) A titanite-like mineral from Plauen Grund, near Dresden. — See Titanite. Grotthite, on Groot, (Hoso,) an eminent scholar and statesman, was B. at Delft, in Holland, in 1583. He was descended from a noble family, received an excellence education, and gave early manifestations of surprising talents. In 1599 he commenced his career as advocate; and he was successively appointed historiographer, advocate-general of Holland and Zealand, a member of the states-general and envoy to England. Hitherto his life had been marked by splendor, but now it began to be clouded by the part which he took in the Arminian controversy. In 1613 he became syndic, or pensionary, of Rotterdam, and declaring himself on the side of Barneveldt, he supported him and the cause of the Arminians by his pen and influence. But he narrowly escaped the fate of Barneveldt, who suffered on the scaffold, and received sentence of imprisonment for life in the fortress received sentence of imprisonment for life in the fortres received sentence of imprisonment for life in the fortress of Læwestein. From this, however, at the expiration of 18 months, which he had employed in writing his celebrated Treatise on the Truth of the Christian Religion, he succeeded in escaping. This was effected by the management of his wife, who contrived to have him carried out of the castle in a chest that had been used for the conveyance of books and linen. G. at first sought an asylum in France; and it was during his residence there that he composed his great work, De Jure Belli et Pacis. After an absence of 12 years, he returned to his native country, relying on the favor of Frederic Henry, prince of Orange, who had written him a sympathizing letter. But by the influence of his enemies he was condemned to perpetual banishment. He passed the remnant of his life in the diplomatic service of Sweden, and D. at Rostock, in 1645. With the talents of the meet able states tock, in 1645. With the talents of the most able statesman, G. united deep and extensive learning. He was a profound theologian, a distinguished scholar, an acute philosopher, a learned jurist, and an erudite historian. Among his works not mentioned above may be noticed De Antiquitate Respublics Batarics; a History of the Goths, &c.

Goths, &c.

Gro'tom, in Connecticut, a post-township of New Leedon co, on the Thames River and Long Island Sonad,
opposite New London. There still may be seen Fort
Griswold, memorable for the massacre of an American
garrison by the British in 1781. The British having captured the fort after a desperate resistance, Col. Ledyard,
the American commander, surrendered to the officer of
the detachment, and was immediately killed with his
own sword, most of his men being also butchered. A
granite monument, to commemorate that event, was
erected in G. in 1830.

Grotom, in Massachusetts, a post-village and township

GFOtom, in Massachusetts, a post-village and township of Middlesex co., on the Nashua and Squannacook rivers, abt. 35 m. N.N.W. of Boston. GFOtom, in New Hompshire, a post-township of Graftes

Groton, in New York, a post-village and township of Tompkins oo., about 12 m. N.E. of Ithaca. Pop. (1891)

Tompkins co., about 12 m. N.E. of Ithaca. Pop. (1880) 1,280.

Grotom, in Ohio, a township of Eric co.

Grotom, in South Dakota, a post-village and township of Brown co., on the C., M. & St. Paul and the C. & N. W.

R. Ra., 32 m. E., of Aberdeen. Is in a wheat growing region and has roller flour mills. Pop. of village (1885) 601.

Grotom, in Vormont, a post-township of Caledonia co.

Grotom Cemtre, in Connecticut, a village of New London. On the Thames river, opposite New London.

Grotom Jumetiom. in Manuchusetts, a village of Middlesex co., about 30 m. N. W. of Bostom.

Grotom Jumetiom. N. W. of Fermo. Manus'. Licorica, and refined sugar. Pop. 4,860.

Grot'to, n.; pl. Grotrom. [Fr. grette; It. grotte; Sp. grute; A. S. grut; probably from Lat. crypto. Gr. kvppli, a cave, a vault, from Gr. krypti, to conceal.] A concealed or covered passage or cavity; a natural cave or rent in the earth; an artificial or ornamental cave for coolness or delectation.—See Cave.

Grot'to-work, a. Ornamental work or shell-work in a garden. in imitation of a grotto.

Grout'an-lode, n. (Mining.) In Cornwall, Eng., any tin lode which abounds with rough gravel or sand.

Grouehy, Emmanuel. (groot'sh.) Manguis Da, a marshal of France, and a scion of a noble Norman family, B. at Paris, 17:6. He is known as a brave and successful soldier in the wars of Napoleon, but chiefly memorable for the fatuity which seemed to rule his conduct at the battle of Waterloo. With 35,000 men and formidable artillery under his orders, he remained immovable, either by the prayers or threats of the other generals, in a position which could only be justified by the strict letter. artillery under his orders, he remained immovable, either by the prayers or threats of the other generals, in a po-sition which could only be justified by the strict letter of his instructions. It is not certain that he intended to betray the cause of Napoleon, but his culpable inde-cision certainly contributed to the disaster which befell the French arms. He was twice afterwards summoned before a council of war, but each time escaped judgment in consequence of the court's declaring itself incomptent. G. was included in the special amnesty of 1819, and restored to his military rank on the accession of Louis Philippe. D. 1847.

Ground, n. [A. S., Ger., Dan., and Swed. grand; D. grond; Fris. grand, grond; O. Sax. grand; Irel. grann; Gael. grann; Goth. grandu; Esthon. I rand. Root, Sansk. gred, to go.] The earth, considered as experificially extended; the surface of land or upper part of the earth, without reference to the materials.

"Man to till the grand new was."—#files. the French arms. He was twice afterwards summoned

"Man to till the ground none was." — Miles Region; territory; land; estate; possession. "Where'er we tread, 't is haunted, boly ground."

Basis; foundation; that which supports anything; bence, fundamental cause; primary reason or original principles; first principles; premise; dictum; originating force or agency.

"To the solid ground Of nature trusts the Mind that builds for aye." — Word Field or place of action; as, a battle-ground, a cricket-

ground.

A viscous preparation spread over the surface of a metal
plate previous to etching, in order to prevent the nitric
action or esting except where an opening is punctured

acid from eating except where an opening is punctured by a needle.

(Mus.) A composition in which the base consists of a few measures constantly repeated;—the plain song. (Painting.) The first layer of color on which the fig-ures or other objects are painted; as, blue on a white ground.—The term is also applied to the different dis-tances in a picture, as fore-ground, middle-ground, back-

(Sculp.) The surface from which the figures rise in

(Arch.) The face of the scenery or country round s

(Arch.) The need the scenary of wants of building.

pl. Pieces of wood fixed to walls and partitions, with their surfaces flush with the plaster, to which the facings or fluishings are attached.

pl. The bottom of liquors; dregs; less; sediment; as,

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To gain ground, to advance; to progress onward; to Ground'-robin, n. (Zoil.) See Pipilo. proceed forward; ss, an army gains ground, a rumor Ground'-room, n. A lower room in a building gains ground. (Used in a sense which implies advantage Ground'seel, n. [A. S. grundsodige.] (Bol.) or success.) — To get ground, to gather ground, to gain Senseto. ground. (R.)
"If they get ground and 'vantage of the king." — Shake.

To give ground, to recede; to draw back; — hence, to yield opportunity or advantage.

To lose ground, to retire; to withdraw from a position taken and held; to retreat;—hence, to decline in profit, steem, or credit; to lose advantage.

"At length the left wing of the Arcadians began to loss ground.

To stand ground (with the reciprocal pronoun,) to hold firmly to a thing, place, or position; not to give way, or withdraw.

He will stand his ground against all attacks." -r. a. To lay, set, or fix on the ground. — To found; to rest or base, as on a foundation, cause, reason, or principle; to fix or establish firmly.

ded upon the principles of nature an

-To instruct in elements, rudiments, or first principles

to instruct in elements, rudinents, or first principles; as, he is well grounded in the classics.

-r. a. To run aground or ashore; to strike the bottom and remain stationary or fixed, as a ship.

"She grounded on a spit in bare three fathoms." — Howard.

"She grounded on a spit in here three fathoms." — Howard.
Ground'age, n. Dues paid by a ship for the room it occupies while in port or harbor.
Ground'ang'ling, n. (Sports.) The practice of angling for fish with a weight placed over the hook, instead of using a float on the surface of the water.
Ground'ansh, n. A shoot or aspling cut from an ashtree.

id-ask the Trojan threw." — Dryden.

"A lance of tough ground-as use Troins threw."— Dryagen.

Ground'-bailiff, n. (Mining.) The overseer or superintendent of a mine.

Ground'-bait, n. (Sports.) In angling, balls made
of greaves, bran, broiled grain, &c., mixed up with clay
and thrown into the water, by which the fish are brought
together upon those spots which the angler selects for
his snow."

Ground'-bass, n. (Mus.) A bass of a very few bars continually repeated:—a fundamental or radical bass

Ground'-cherry, s. (Bot.) See Physalis.
Ground'edly, adv. Upon firm principles; in a grounded or established manner.
Ground'-floor, s. The lower story of a house, or that which is on a level, or thereabouts, with the ground outside.

**Ground'-form**, n. (Gram.) The basis of a grammatical word to which the adjuncts are added in declen-

matical word to which the adjuncts are added in declen-sion and conjugation.

Ground'-gru, n. See Ground-tor.

Ground'-heemlock, n. (Bot.) See Taxus.

Ground'-hee, n. Ice formed under peculiar circum-stances at the bottom of running water. M. Arago attributes the formation of G. I. to three circumstances:

1. In a body of water in motion, the temperature of which is below 39° Fahr. (under which water becomes used faults lighter by a further distinction of temperature.) specifically lighter by a further diminution of temperature), the eddles of the current throw down the coldesi specincary righter by a results and an arrange of the current throw down the coldest parts which in still water would remain at the surface, so that the whole stream from the surface to the bottom acquires the same temperature through this mechanical action; 2. The aptitude for the formation of crystals on the surface at the bottom: 3. Less impediate at the bottom: 3. Less impediates at the surface.

action; 2 The aptitude for the formation of crystals on the stones and aspertites at the bottom; 3. Less impediment to the formation of crystals at the bottom, in consequence of the comparatively greater stillness of the water. (Sometimes termed ground-gru.)

Ground-lyu, n. (Bot.) See Nepta.

Ground-lyun, n. (Bot.) A joint for fitting certain surfaces by rubbing them with fine-grained emeryand oil.

Ground-losts, n. (Building.) A joist belonging to the basement or ground-floor of a house.

the busement or ground-floor of a house.

Ground/less. a. Wanting ground, basis, or foundation: not authorized or authenticated; false; as, a ground/lessly, adv. In a groundless manner.

Ground/lessly, adv. It as groundless manner.

Ground/lessly, adv. State or quality of being groundless, or without cause or foundation.

The notorious falsehood and groundlessness of his

Ground'-line, n. (Math.) In geometry, the line intersecting the horizontal or vertical planes.

Ground'ling, n. A spectator placed in the pit of a theatre, which was formerly on the ground, without having even flooring or seats.

Ground'-liverwort, n. (Bot.) See Pelligera.

Ground'-mould, n. (Civil Engineering.) A mould whereby the surface of the ground is wrought to any desired form.

desired form.

desired form.

Ground:-mest, n. A nest made in the ground.

Ground:-mut, n. (Bot.) See Arachis.

Ground:-pime, n. (Bot.) See Lycopolium.

Ground:-pime, n. (Arch.) The surface design of the divisions or compartments of a building.

Ground:-piam, n. (Arch.) The surface design of the divisions or compartments of a building.

Ground:-piame, n. The horizontal plane of projection employed in perspective drawing.

Ground:-piate, n. (Arch.) See Ground-sill.

Ground:-piate, n. (Arch.) See Ground-sill.

Ground:-piate, n. (Arch.) See Bround is rected or placed.

(Arch.) The ichnography or plan representing the horizontal section of the lower story of a building.

Ground:-remt, n. (Law.) Rent paid for the privilege of building on another man's ground; rent paid for the use of ground.

SERECO.

Groundsel-tree, n. (Bot.) See BACCHARIS.

Ground'sail, n. [Eng. ground, and A. S. sylla, a seat.] (Arch.) The piece of timber which forms the lower part of a timber building, into which the upright posts or principal timbers frame ; - sometimes termed

pround-plate.

Fround'squirrel, n. (Zoil.) See Strippe-squirrel.

Fround'swell, n. An undulation of the ocean caused
by the continuance of a heavy gale of wind. G. are
rapidly transmitted through the water, sometimes to
great distances, and even in direct opposition to the
wind, until they break against a shore, or gradually subside in consequence of the friction of the water. They
indicate, by the direction of their movement, the quarter
in which a storm hear regard; and occasionally the storm hear regard. in which a storm has raged; and occasionally they are observed to come from various points of the compass at one and the same time.

one and the same time.

Ground'table Stones, n. pl. (Masonry.) The projecting course of stones in a wall, above the pinth.

Ground'tackle, (4al', n. (Naut.) The name applied on shipboard to all the ropes, &c., connected with anchors, bunys, or other mooring apparatus.

Ground'tier, (4êr., n. (Naut.) The tier of casks in a ship's hold which lie first above the keel. — The lowest tier or range of boxes in a theatre.

Ground'waws, n. nl. (Naut.) Layer pieces or balks.

in a snips note which he has above the above the lowest tier or range of boxes in a theatre.

Ground'-ways, s. pl. (Naul.) Large pieces or balks of timber laid across a ship or dock, and upon which the blocks are placed.

Ground'-work, n. The work which serves as the

basis, foundation, or support of anything.—The fundamentals; the essential part.—First principle; primary cause; original reason.

mentals: the essential part. — First principle; primary cause; original reason.

(\*\*Printing\*\*) That color part on which the figures or images are drawn. See Ground.

\*\*Ground.\*\*(ground.\*\*) That color part on which the figures or images are drawn. See Ground.

\*\*Ground.\*\*(ground.\*\*) Ground.\*\*(ground.\*\*) Ground.\*\*(ground.\*\*) A cluster; It. ground. or things; a number collected with order, form, or arrangement; as, a ground of children, a ground. of islands, &c. — An assemblage of figures or objects in a certain form, or order of relation, or connected by some common individuality or characteristic; as, a ground of animals, a ground forcks.

(\*\*Puinting.\*\*) An assemblage of objects, whose lighted parts form a luminous mass, and thin-shaded parts a mass of obscurity; the word is also used to denote any adjoining cluster of figures, animals, fruits, flowers, &c. In speaking also of objects of different sorts, it is usual to say that one object ground with another. Lights in groups should, as well as shadows, be connected together, or the necessary repose will be wanting.

groups should, as well as shadows, be connected together or the necessary repose will be wanting.

(Sculp.) A design containing two or more figures.

(Mus.) A number of notes linked together at the steems of the

semblage. Group'ing, я.

semblage.

#roup'ing, n. (Painting.) The art or act of combining or joining objects in a picture for the satisfaction of the eye, and also for its repose; and although a picture may consist of different groups, yet these sets of objects, managed by the chiaroscure, should all tend to unity, and one only should predominate.

Grouse, n. (Zoil.) The common name of the Tetrao-nide, a family of the order Rasores, comprising galli-naceous birds which have the nasal fosses filled and covnaced with feathers, tarsi densely feathered, toes usually naked and pectinated along their edges. Some of the Tetraonidæ are polygamous, and this is the case with all, or almost all, the species of the genus Tetrao, while those of Lagopus, so nearly allied to them, pair.—The genus Tetrao contains the largest birds of the family, exceeded in this respect by always no they collisies the second of the secon genus Tetrao contains the largest birds of the family, exceeded in this respect by almost no other gallinaceous birds. They have a full figure, with much muscular power; the tail is longer than in most of the family, is composed of broad feathers, and generally rounded. The females differ very considerably in plumage from the males, which are often resplendent in black, brown, green, and blue. The species are natives of the northern and temperate parts of Europe, Asia, and America,—the regions in which the Tetraonide in general are most abundant, although some of the family are found in warmer and more southern countries.—The largest species of Tetrao and of all the Galline is the European Wood G., called also Cock of the Wood, and in Scotland Capercallisic (Tetrao wrogallus), a magnificent bird, 2 ft. Capercalizie (Tetrao urogallus), a magnificent bird, 2 ft 9 inches in length, nearly 4 feet in extended breadth

and weighing from 8 to 14 pounds. Next to it comes the Black G., BlackGame, Heath-cock or Black - cock (Tetrao tetrix), another European species. The male is 2 feet in length, and the expansion of his wings 2 feet 9 inches. The prevailing color of its plu-mage is black, richly glossed with blue on the neck, back, and rump; the rest of the body be-ing dull black. The bill is dark; the eyes deep blue; below each eye is a spot of dirty white, and eyebrows formed of a naked space of bright



Pig. 1205. - BLACK GROUSE, (Tatrao tetriz.)

scarlet. The lesser wing-coverts are dusky brown; the greater white, which extend to the ridge of the wing, forming a spot of that color on the shoulder when the wing is closed; the quills are brown, the lower parts and tips of the secondaries white, forming a lar of white across the wing; the tail is black, changing to deep violet, and when spread out, the feathers form a curve on each side; the under tail-coverts are pure white; the legs and thighs dark brown, mottled with white; the feet brown. Like the former species, these birds are common in Russia, Siberia, and other northern countries, chiefly in wooded and mountainous situations.—The Plunated G., or Prairie-chicken (Tetrao cupido) of our Western prairies, is, in twoice, manners, and peculiarity of plumage, the most invoice, manners, and peculiarity of plumage, the most invoice, manners, and peculiarity of plumage, the most invoice, manners, and peculiarity of plumage, the most invoice that inhabit the territory of the U. States. Though an inhabitant of different and very distant districts of N. America, this rare bird is extremely particular in selecting his place of residence, pitching only upon those tracts whose features and productions correspond with his modes of life, and avoiding immense intermediate regions that he never visits. Open dry plains, thinly interstructed with those tracts whose features and productions correspond with his modes of life, and avoiding immense intermediate regions that he never visits. Open dry plains, thinly interspersed with trees, or partially overgrown with shrub-oak, are his favorite haunts: their predilection for such situations being, according to the opinion of Wilson, to be best accounted for by considering the following facts and circumstances: —First, their mode of light is generally direct, and laborious, and ill calculated for the labyrinth of a high and thick forest, crowded and intersected with trunks and arms of trees, that require continual evolution of wing, or sudden turnings, to which they are by no means accustomed. Recondly, their known dislike of ponds, marshes, or watery places, which they avoid on all occasions, drinking but seldom, and it is believed, never from such places. The last, and probably the strongest inducement to their preferring these plains, is the small acorn of the shrub-oak, the strawberries, huckleberries, and partridge-berries with which they abound, and which constitute the principal part of the food of these birds. These brushy thickets also afford them excellent shelter, being almost imponentalle to dogs or birds of prey. The Pinnated G. is 19 inches long, Zi inches in extent, and weighs about 3 rounds. The service of the country of the provides and anord time excerner snetter, being almost impenerable to dogs or birds of prey. The Pinnated G. is 19 inches long, 27 inches in extent, and weighs about 3 pounds; the neck is furnished with supplemental wings, each composed of 18 feathers, 5 of

which are black, and about 3 inches long; the rest shorter, also black, streaked laterally with brown, and of unequal lengths; the head is slightly



with brown, and or unequal lengths; the head is slightly created; over the eye is an elegant semicircular comb of rich orange, which the bird has the power of raising or relaxing; under the neck-wings are two loose, pendulous, and wrinkled skins, extending along the side of the neck for two-thirds of its length, each of which, when inflated with air, resembles, in bulk, color, and surface, a middle-sized orange; chin, cream-colorsed; under the eye runs a dark streak of brown; whole upper parts mottled transversely with black, reddish-rown, and white; tall short, very much rounded, and of a plain brownish soot color; throat elegantly marked with touches of reddish-brown, white, and black; lower part of the breast and belly, pale brown, marked transversely with white; legs covered to the toes with hairy down of a dirty drab color; feat dull vellow; toes pectinated; vent whitish; belly, pale brown, marked transversely with white; legs covered to the toes with hairy down of a dirty drab color; feet dull yellow; toes pectinated; vent whitish; bill brownish horn-color; eye reddish-hazel. The female is considerably less; of a lighter color; destitute of the neck-wings, the naked yellow skin on the neck, and the semicircular comb of yellow over the eye. The season for pairing is in March, and the breeding time is continued through April and May. Then the male G. distinguishes himself by a peculiar sound. When he utters it, the parts about the throat are sensibly inflated and swelled. It may be heard on a still morning for three or more miles. This noise is a sort of ventriloquism; it does not strike the ear of a bystander with much force, but impresses him with the idea, though produced within a few rods of him, of a voice a mile or two distant. This note is highly characteristic. Though very peculiar, it is termed tooting, from its resemblance to the blowing of a conch or horn from a remote quarter. The female makes her nest on the ground, in recesses very rarely discovered by man; and she usually lays from ten to twelve brownish-colored eggs, much resembling those of a guinea-hen. When hatched, the-brood bling those of a guinea-hen. When hatched, the brood is protected by her alone. Surrounded by her young, the mother bird exceedingly resembles a domestic hen with her chickens. When at such times they are surwith her chickens. When at such times they are surprised, the dam utters a cry of alarm; and while the little ones are hurrying to a place of safety, their anxious parent begulies the spectator by drooping and flutering her wings, limping along the path, rolling over in the dirt, and other pretences of inability to walk or fly.—The Ruffled G., or Partridge (Bonasa usabilus) of the Eastern U. States and westward, has for its favorite places of resort high mountains, covered with the balsam-pine, hemlock, and such like evergreens. Unlike the pinnated G. it always prefers the woods; is seldom or never found in open plains; but loves the pine-sheltered declivities of mountains near streams of water. The manners of the Ruffled G. are solitary; they pine-sheltered occlivities of mountains near streams of water. The manners of the Ruffied G. are solitary; they are seldom found in coveys of more than four or five together, and more usually in pairs, or singly. They leave their sequestered haunts in the woods early in the morning, and seek the path—or road to pick up

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gravel, and glean among the droppings of the horses. They generally move along with great stateliness. The drumming, as it is usually called, of Ruffled G, is another singularity of this species. This is performed artisming, as it is usually called, of Kulmad G, is another singularity of this species. This is performed by the male alone. In walking through solitary woods, frequented by these birds, a stranger is surprised by suddenly hearing a kind of thumping very similar to that produced by striking two full-grown ox-bladders together, but much louder: the strokes at first are slow and distinct, but gradually increase in rapidity, till they run into each other, resembling the rumbling sound of very distant thunder, dying away gradually on the ear. This drumming, repeated after a few minutes, pause, is the call of the cock to his favorite femsile. It is produced in the following manner: the bird, standing on an old prostrate log, lowers his wings, erects his expanded tail, contracts his throat, elevates the two tufts of feathers on the neck, and inflates his whole body, something in the manner of the turkey-cock, strutting and wheeling about with great stateliness. After a few manoeuvres of this kind he begins to strike with his stiffened wings in short and quick strokes, which become more and more rapid until they run into each other, as has been already described. This is most com-

quail, it is open above, and is usu-



Fig. 1207. - THE RUFFLED GROUSE.

ally composed of (Sonasa umbellus.)

dry leaves and grass. The eggs are from nine to fifteen in number, of dry leaves and grass. The eggs are from nine to fifteen in number, of a brownish-white, without any spots, and nearly as large as those of a pullet. The young leave the nest as soon as hatched, and are directed by the cluck of the mother, very much in the manner of the common hen. On heir g surprised, she exhibits all the distress and affection atte manources of the quali, and of most other birds, to lead one away from the spot. They have been often taken young, and tamed, so as to associate with the fowls; and their eggs have frequently been hatched under the common hen; but these rarely survive until full grown. They are exceedingly fond of the seeds of grapes; occasionally eat ants, chestnuts, blackberries, and various vegetables. Formerly they were numerous in the immediate vicinity of Philadelphia; but as the wools were cleared and popuration increased, they retreated into the interior. At present there are very few to be found within several miles of the city, and those only singly, in the most solitary and retired woody recesses. The Ruffied G is in best order for the table in September and October. At this season they feed chiefly on whortleberries, and the little arounatic partridge-berries; the last of which give their fiesh a peculiar delicate flavor. With the former our mountains are literally covered from August to November; and these constitute, at that season, the greater part of their food. During the deep snows of winter they have recourse to the buds of alder, and the tender buds of the laurel. The interesting facts contained in the foregoing account are derived from the inimitable American Ornithology, by Alex. Wilson.

oy Alex. Wilson.

Grouse, in Orson, a post-village of Union co., about
40 m. S. E. of Walla Walla, Wash.

Groust, n. [A. S. grud, meal of wheat or barley; Garl.
gruid, lees, dregs, grounds; D. greys, dregs, fragments
of stone.] Course meal; pollard.

(King Restinant)

"King Hardicoute, 'midst Danes and Saxons stout. Carous'd in nut-brown ale, and din'd on grout."-- Kina

Carous'd in nut-brown als, and din'd on grout."—Ring.

-Lees: sediments: dregs; grounds. — A kind of thick ale.

(Building.) Mortar reduced to a state of fluidity by
the addition of water; also, a mixture of plaster (or
fine stuff), or putty (or coarse stuff), used to finish off the
best cellings, and sometimes for setting walls, when
such finish is required.

-v a. To fill up, as the joints or spaces between stones,
with coarse mortar.

v a. To nit up, as a with coarse mortar.

with coarse mortar.

Grout'ing., The process of applying grout to walls or ceilings; also, the grout so applied.

Grout's Corners, in Massochwetts, the former name of Miller's Corners, in Massochwetts, the former name of Miller's Corners, irritable; peevish; surly; sulky; sullen. (Used colloquially.)

Grout, n. [A. S. graf, graf, See Gnavz.] A recess or glade in the interior of a thick wood; a small wood or cluster of trees, with a shaded avenue, or a wood impervious to the rays of the sun; a wood of small extent; something resembling a wood, or trees in a wood.— G. have, among almost all nations, been associated with religious rites, being chosen as suitable places for them, have, among almost all nations, been associated with religious rites, being chosen as suitable places for them, or even planted in order to this use. The pleasantness of groves may have had something to do with this, but probably far less than the sentiments of awe and solemity naturally excited by the gloom of deep forests.

Grown over, covered with a growth.

—v. a. To cause to grow; to produce; to raise; as crops of cereals are grown.

Grown over, covered with a growth or order, overed with a growth.

—v. a. To cause to grow; to produce; to raise; as crops of cereals are grown.

Grown over, covered with a growth.

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Grown over, covered with a growth.

—v. a. To cause to grow; to produce; to raise; as crops of cereals are grown.

fice and other religious rites, that the planting of a G. became itself an act of religion, like the erection of an altar or the building of a temple. Thus, "Abraham planted a grove in Beer-shebs, and called there on the name of the Lord, the everlasting God." (Gen. xxi. 33.) Afterwards, however, the Jews were forbidden to plant groves near the altar of the Lord (Deut. xvi. 21, 22), because of their association with idolatry, and with the cruel and abominable rites of the nations of Canaan, and of the neighbors of the Jews.

The weeker, n. One who grows; that which increases; who raises, cultivates, or produces; as, a cotton-grawling in the quicklest grower, n. Une who grows; that which increases; who raises, cultivates, or produces; as, a cotton-grawling in the quicklest grower, n. Une who grows; that which increases; who raises, cultivates, or produces; as, a cotton-grawling in the quicklest grower, n. It is the quicklest grower any time of growing.

It is the quicklest grower any time of growing, v.m. In grollen, to roar, from rollen, to trundle; Flem. grollen, to roar, from rollen, to trundle; Flem. grollen, to roar, from rollen, to any gray skin to Gr. growing, the first of the ration of the land of the produces; as, a cotton-grawling who raises, cultivates, or produces; as, a cotton-grawling who raises, cultivates, or produces; as, a cotton-grawling who raises, cultivates, or produces; as, a cotton-grawling that which increases; as, a cotton-grawling who raises, cultivates, or produces; as, a cotton-grawling who raises, cultivates, and the pr

Frove, in lowe, a township of Adair co. -A township of Davis co.

—A township of Pottawattomie co.

Grove, in New York, a township of Allegany co.

Grove, in North Carolina, a post-office of Chatham co. A township of Harnett co

Grove, in North Carolina, a post-office of Chatham co.

—A township of Harnett co.

Grove, in Ohio, a post-village of Geauga co.

Grove, in Pennsylvania, a township of Cameron co.

Grove, in Washington, a post-office of Mason co.

Grove, in Washington, a post-office of Mason co.

Grove City, in Minoso, a post-village of Doddridge co.

Grove City, in Minoson, a post-village of Christian co.

Grove City, in Ohio, a post-office of Franklin co.

Grove City, in Oregon, a P. O. of Mallieur co.

Grove City, in Oregon, a P. O. of Mallieur co.

Grove City, in Nennsylvania, a post-orough of Mercer

co., on P., S. & L. E. R. R. Pop. (1890) 1,160.

Grove Hill, in Alabama, a post-office of Carolina, a P. O. of Maries co.

Grove Hill, in North Carolina, a P. O. of Warren co.

Grove Hill, in North Carolina, a P. O. of Warren co.

Grove Hill, in Virginia, a post-office of Page co.

Grove Hill, in Virginia, a post-office of Page co.

Grove Lake, in Mannesota, a post-ownship of Pope co.

Grove Lake, in Mannesota, a post-ownship of Pope co.

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Grove Lake, in Mannesota, a post-ownship of Pope co.

Grove Lake, in the pope con contract on the carth; to creep or crawl on the earth, or with the face to the ground.

or with the face to the ground. Upon thy belly grovelling thou shalt go."-Mile

To act in a prostrate posture; to be low or mean; as, gravelling thoughts.

Grove'land, in Illinois, a post-village of Tasewell co., abt. 60 m. N. by E. of Springfield.

Grove'land, in Indiana, a post-office of Putnam co.

Grove'land, in Michigan, a post-township of Oakland

Grave'land, in Massachusetts, a post-township of Es sex co.

Greve'land, in New York, a post-village and township
of Livingston county, about 6 miles south of Gen-

esse.

Grove'land Centre, in New York, a village of Livingston co., abt. 230 m. W. of Albany.

Grov'eller, n. One who grovels; a low, mean person;
an abject wretch.

Grovenor's Corners, in New York, a post-office

Grovemor's Corners, in New York, a post-office of Schoharie co.

Grove'port, in Ohio, a village of Franklin co., abt. 10 m. S.E. of Columbus.

Grover Tewn, in Indiana, a post-village and township of Stark co., abt. 11 m. W.N.W. of Plymouth.

Groves, in Indiana, a post-office of Fayette co.

Grove Startion, in S. Curolina, a post-office of Greenville dist.

ville dist.

Grove'tom, in New Hampshire, a post-office of Coos co.
Grove'tom, in Virginia, a village of Prince William
co., abt. 30 m. W. of Alexandria.
Grove'tom, (Battle or.) See Bull Run.
Grove'ville, in New Jersey, a village of Mercer co.,
on Crosswicks Creek, abt. 6 m. 8.E. of Trenton.

on Crosswicks Creek, abt. 6 m. S.E. of Trenton.

Grow'y, a. Consisting of a grove or groves; resembiling, pertaining to, or frequenting a grove or groves. (a.)

Grow, v. n. (imp. Grew; pp. Grown) [A. S. gronom, gegrosen; L. Ger. grootn; p. grocipin; Dan. and Swed. grn; Icel. gróa, to grow. Allied to Sansk. Ari, to make.]

To enlarge in bulk or stature by a natural, imperceptible addition of matter; to vegetate, as plants, or be augmented by natural process, as animals.

To increase or be augmented in any way; to wax; to advance; to improve by becoming larger and stronger; to extend.

gan to *grow* fast on."

To spring up and arrive at maturity in a natural man-ner: to produce by vegetation; to flourish; as, the orange gross in the tropics.

"In colder regions men compose Poison with art, but here it gr

To become; to reach any state; to be changed from one state to another; to proceed, as from a cause or reason as, to grow rich, tall, pale, poor, &c., a growing boy. "Quit your books, or surely you'll grow double." — Wordsworth.

To adhere; to become fixed or attached; as, " the chin

"To adhere; to become fixed or attached; as, "the chin would grow to the breast." "Wisemm. To grow out of, to issue from, as plants from the soil, or as branches from the main trunk or stem; — hence, to result from; as, dissensions grow out of a trivial occurrence. — To grow up, to arrive at manhood or maturity. ritv.

"We grow up in vanity and folly." -Archbishop Wake. In grow together, or up, to become as one by growth. Honour and policy . . . i' th' war do grow together."—Shaks.

Groups over, covered with a growth.

—v. a. To cause to grow; to produce; to raise; as, large crops of cereals are grown.

Groww, in Minuseta, a thriving township of Anaka

"It is the quickest grosser of any kind of elm."—Morimor.

Growl, v. n. [D. grollen, to cry as a cat; L. Sax. grollen, to rour, from rollen, to cry as a cat; L. Sax. grollen, to rour, from rollen, to title to trundle; Flem. grollen, to murmur, to rour with anger; probably akin to Gr. grulizid, to grunt. To utter an angry, grumbling sound; to make a harsh murmur or snarl, as a dog.

—v. a. To express by growling.

—n. The deep snarl or nurmur uttered by an angry dog Growlfer, n. A snarling cur; a grumbler.

Growlfery, n. The sanctum of a peevish old bachelo.

Growlfery, n. The sanctum of a peevish old bachelo.

Growlfery, n. At or process of growing; gradual increase of animal or vegetable bodies; increase in number, bulk, or frequency; increase in extent or prevalence; advancement; progress: in-provement.

"The common growth of Mother Earth saffices me."—Wedeverth.

The common growth of Mother Earth suffices u

-That which has grown; anything produced; product; produce; consequence; result.

produce; consequence; result.

"Man seems the only growth that dwindles here." — Coldenia.

Groyne, n. (Const Engineering.) See Grows.

Groyne, n. [Fr. groseille.] A local name given in
Scutland to the gooseberry.

Grub, v. n. [Goth. graban, to dig; allied to grave, q. v.]
To dig; to be occupied in digging. — To beg; to cadge;
to solicit food meanly. (A colloquial vulgarism.)

—v. a. To dig up by the roots with an instrument; k:
root out by digging; — preceding up.

"A foolish heir canada the sinerant to be graphed on "—V. Streen."

"A foolish beir caused his vineyard to be grubbe A rootes her ceased his vineyard to be graubed up. "— I Morene.

on. An insect that digs in the ground, devouring roots
of corn, grass, &c., or which crows dig up and derour: a
worm produced from the eggs of beetles; an insect in the larva state.

to between a grub and a butte "There is a difference our butterfly was a gr

—A short, thick man; a dwarf. — A vulgar term for field or victuals; as, they gave me excellent grad. Grub'-axe, n. An instrument used in grubbing up

roots &c.

roots, &c.

Grub'ber, n. One who grubs.— An instrument used
for digging up roots, &c.; a grub-axe.

Grub'atreet, n. or a. Originally the name of a street
near Moorfields, London, (now called Millon Street,)
"much inhabited by writers of small histories, dictionaries, and temporary poems, whence any mean produc-tion is called *Grub-street." (Johnson.)* — Employed as an adjective to denote any literary production on a par-with, or after the manner of, the publications of Grub-with, or after the manner of,

street.
"I'd soor or ballads write, and Grad-stre et lava

"I'd sooner balleds write, and Grub-street lays."—Gey. Grudige, (grui,) v. m. [Goth us-grudige, slow, languid; allied to O. Ger. gratace, greedy, to Icel. gracelsta, rooted malice, hattred, and probably to Gr. gruss, to grunt to grumble.] To be discontented, as at another's enjoyments or advantages; to envy one the possession or happiness which we desire for ourselves; to permit or grant with reluctance; to give or take unwillingly; to covet; to desire to obtain back again. He . . . much gradg'd the praise, but more the robb'd reward."

v. a. To grumble; to murmur; to repine; to complain; to be unwilling or reluctant; to show envy or covetous

"Nor grudging give what public needs require."—Dryden.

1. Discontent at the pessession of something by another; secret enmity; sullen malevolence; hidden dislike; ill-will; spite; pique; unwillingness to benefit.

1 will feed fat the ancient grudge I bear him."—Shaks.

Grudg'er, n. One who grudges; an envier; one who murmurs in discontent.

Grudg'ingly, adv. Unwillingly; with reluctance of discontent.
"They drank and eat, and gradgingly obey'd."—Dryden.

Gru'el, n. [Fr. grucu, oat-meal, water-gruel; L. Let. grutum, from A. S. grut. meal of wheat or barley.] A kind of light food, made by boiling grits or grout, or meal, in water; thin, liquid porridge, usually made of

oatmeal,
"Was ever Tartar Seroe or ordel
"Upon the strength of water grael?"
"Coarse; Dan. grov; ruff, a. (D. grof, coarse; Dan. grow; Ger. greb, big. coarse; Pol. gruby; W. rhef. thick. The Ger. is probably from rauh, rough, and the English from the same Gruff, a. auty from ran, rough, and the English from the same word.) Of a rough, harsh, or stern manner of voice: sour; severe; surly; rugged of demeanor; as, a graf old bachelor, a gruff answer. &c.

Gruffly, adv. Roughly: sternly; ruggedly; harshly.

"Mars... gruffs look'd the god."—Pryden.

Gruff'ny, adv. Kougniy; sterniy; ruggeniy; narssiy.

"Mars... gruffy look'd the ged."—Pryden.

Gruff'ness, n. Quality of being gruff in voice or manner; roughness; sternness; ruggedness of mien.

Gruffden, n. pl. (Zoll.) The Crance, a sub-family of the Ardeidz, comprising very large birds, which have the head more or less bare, the tore connected by a basal membrane, and the hind toe short and much elevated. They inhabit dry plains. The genus Grus is the only one represented in N. America. The White, or Whooping Crane, G. Americanus, of Florida and Texas, and occasionally in the Mississippi Valley, is 52 inches ionz, and the wing 24 inches. The Sandhill Crane, or Brown Crane, G. Cunadensis, of the Mississippi Valley and westward, is 48 inches long, and the wing 22 inches. It is exceedingly wary, and its sight and hearing are scate. When wounded, it is dangerous to approach it, as a single thrust from its bill may inflict a severe wound.

Grum, a. [A. S. See Grim.] Sour in look; surly of morose in mien or manner; glum; grim; as, "Nict looked sour and gram,"—Arbeitand.

—Deep-toned; guttural; rumbling; as, a grum voice.

Grumn'ble, v.n. [D. grommen, to grumble, to growl;
A. S. grymetan, to cry out, to roar; Fr. grommeler, to
utter. Formed from the sound, like Gr. gromphas, an
old sow; and allied to rumble, &c.] To make a harsh
and heavy sound; to rumble; to roar; to rattle hoarsely. bling thunder join thy voice.

-To murmur with discontent; to utter a low voice com

"L'Avare still orumbias that he has no more." - Prior -To growl; to snarl.

' At pight (the lion) grumbles o'er his prey."— Dryden.

— At night (the iton) grumbles o'er his prey."—Dryden.
— c.d. To express with grumbling.

Grumm'bler, n. One who grumbles; a murmurer; a discontented person: one who complains or finds fault.

Grumm'bling, n. A murmuring through discontent; a rumbling, as of thunder.

"I have served without grudge or grun Grum'blingly, adv. In a grumbling, dissatisfied

manner.

Grumme, n. [Fr. grumeau, from Lat. grumus.] A thick, viscid consistence of a fluid, like the white of an egg; a clot, as of blood.

Grumm'ly, ade. In a grum, surly manner.

Grumm'smet, Gromm'smet, n. (Ordnance.) A wad formed of a circle of rope, rather less in diameter than the bore of the gun for which it is intended, with two cross-pieces projecting a little beyond the exterior of the circle. These wads are used in firing cold shot from amooth-borred guns, when the elevation is less than 39.

Grummose', Grummosa, a. [Lat. grumus, a little heap of earth.] Thick; viscid; clotted; concreted; as, grumus blood.

(Bot.) Contracted at intervals into knots.

(Bot.) Contracted at intervals into knots.
Gru'mousness, s. State or quality of being grumou or coagulated.

Grammb'Ally, adv. In a morose, surly manner; discontentedly; as, to speak grump ly.

Grammb'Ally, adv. In a morose, surly manner; discontentedly; as, to speak grump ly.

Grammb'Ally, adv. Bismuth nickel. Found at Grünau, in Sayn, Altenkirchen. Color light gray to silver-white, often tarnished yellowish or grayish. Sp. gr. 5-13. Comp. Sulphur 33-46, bismuth 14-11, nickel 40-65, iron 3-48, cobait 0-23, copper 1-68, lead 1-58.

Gram'berg, a fortified city of Prussian Silesia, 57 m. N.W. of Liegnitz. Manuf. Cloth, cotton prints, tobacco, and straw hats. G. has a very celebrated establishment for the instruction of deaf mutes. Php. 12,000.

Gram'del, a. (Bod.) See Groundella.

Gram'dy, in Ilinois, an N. E. co.; area, 440 sq. m. Risers. Des Plaines and Kankakee rivers, which unite in this co. to form the Illinois river. Surface, generally level; colf, fertile. Cap. Morris. Pop. (1890) 21,024.

Gram'dy, in Iosea, a N. E. central co.; area, about 500 sq. m. Risers. Hawk creek, and other smaller streams. Surface, diversified; sod, fertile. Cap. Grundy Centre. Pop. (1895) 13,418.

Gram'dy, in Missowri, a N. Co., area, about 460 sq. m.

Surface, diversified; soil, fertile. Cap. Grundy Centre. Pop. (1885) 13,418.

Grundy in Missouri, a N. co., area, about 460 sq. m. Rivers. Crooked Fork of Grand river, Weldon river, and Medicine, Indian, and Minddy croeks. Surface, level; soil, fertile. Cap. Trenton. Pop. (1890) 17,876.

Grundy, in Tennessee, a S. central co.; area, about 410 sq. m. Rivers. Collins river, and several smaller streams. Surface, mountainous; soil, in some parts fertile. Cap. Altamont. Pop. (1890) 6,345.

Grundy, in Varyissia, a post-village, cap. of Buchanan co., about 280 m. W. of Richmond.

Grundy Centre, in Ivera, a post-town, capital of

Grundy Centre, in Iosa, a post-town, capital of Grundy co., about 22 m. 8. W. of Cedar Rapids. Pop. (1896) 1,322.

(1890) 1,322.

(Rivinerite, n. (Min.) Iron amphibole, (q. v.) Lustre silky, color brown. Sp. gr. 3-713.

Graut, v. n. [Dan. grante; Fr. grogner; Sp. gruffir; It. grugnire; Lat. grunnic; formed from the sound.]

To make a noise like a hog; to utter a short groan, or deep notices.

to make a noise like a nog; to utter a snort groan, or deep, guttural sound, as of a hog.

—a. A deep, guttural sound, as of a hog.

—sunt'er, n. One that grunts; especially, a hog.—An appellation often given to a pig.

" A fine fat grunter in the sty."-Carleton (Zoöl.) See GRUNTS.

"A fine fat granter in the sty."—Cariston.
(Zozi.) See Gaunyrs.
Grunt'ingly, ade. In a grunting manner.
Grunt'ingly, ade. In a grunting manner.
Grunt'ing, n. A young hog.
Grunt'ing, n. A young hog.
Grunts, n. (Zozi.) See Podonias.
Grunts, n. (Zozi.) See Gaunos.
(Astron.) One of Bayer's constellations in the southern hemisphere, between Eridanus and Sagittarius. It has no stars of the first or second magnitude.
Gruyère, (groo'yure.) a town of the canton of Freiburg. Switzerland, 15 miles S. of Freiburg. The district abt. G. is celebrated for its cheese, of which over 25,000 cwt are produced annually. Pop. of town 1,400, and of district 3,800.
Gry, n. [Gr.] Anything small, or of little value, as cheese-parings.
Gryffen, n. See Griffin.
Gryflides, Gryf

Guacalera, (gsu-ca-la'ra.) a town of the Argenties Republic, near the Jujuy River, abt. 96 m. N.W. of Saita.

Guaca'ra, a town of Venesuela, on Lake Tacarigua, about 6 m. E of Valencia.

Guachas'ro-bird, n. (2061.) The Steatornis caripensis, a bird belonging to the family of Goat-suckers, plumage sombre, and about the size of a common fewl. It inhabits South America.

Guachinan'go, a town of Mexico, in the State of Puebla, about 103 m. N. E. of the city of Mexico. Noted for the vanilla raised in the vicinity. *Pop.* (1895) about

for the vanilla raised in the vicinity. Pop. (1896) about 6,250. 
Guachipe, gwü-chee'pa), or Guachipas, an important river of the Argentine Republic, rises on the E. slope of the Andes, in the prov. of Saita, and flows first E.N.E. about 190 m., then S. into the prov. of Tucuman, after which it is called the Salado river. It joins the Parana river in the prov. of Santa Fé, opposite Parana. 
Guacuba (gwl-koc'ba), or Leon, a river of Colombia, enters the Bay of Choco.

Guad. [Sp., from the Arab. wady, a river.] A prefix to the names of many Spanish rivers and towns, as Guadalupe, Guadalavias, &c.

the names of many Spanish rivers and towns, as GUADALUPE, GUADALAVIAR, &c.

Guadaliajara (gwidd-dil-hd'-ra), or GUADALAXARA a
prov. of Spain, traversed by the Tagus, and having an
area of 1,050 sq. m. It is an elevated plain, productive
in cereals, and intersected by mountain ridges. Pop.
200,000.—A city of Spain, cap, of the prov. of which it
bears the name, 32 m. N. E. of Madrid, on the Henares.
Pop. (1895) 8,300.

Guadalajara, GUADALAXARA, a considerable city of
Mexico, capital of the state of Julisco or Guadalajara,
on the Rio Grande de Santiago, about 275 m. W. N. W.
of the city of Mexico, in Lat. 219 y. N., Lon. 103° 2′ 16″
W. It is one of the finest cities in Mexico, was founded
in 1561, and until recently commanded considerable
trade. Pop. (1895) about 82.500.

Guadalaviar (gwidd-dil'-re-dr), a large river of
Spain, rising in the Sierra Albarraciu, and falling, after
a S. E. course of 130 m., into the Gulf of Valencia, in
Lat. 39° 29′ N.

Guadalaviae (alloyersia, a post-village of Santa

Lat. 39° 25′ N.

Guad'aloupe, in California, a post-village of Santa Barbaia co, on Southern Pacific R. R.

Guadalaquivir (gacd-di-di-que'-eer). [Ar. Ouad-al-kebir, the great river]. This river, known to the ancients by the name Boeta, rises in the Sierra de Cazoria, Spain, on the borders of Jaen and Murcia, 15 m. E. S. E.

of Ubeda, and passes Andejar, Cordova (whence it becomes navigable), Serille, and San Lucar-de-Barameda. The G. receives on the right the Guadalima, Campana, Guadamelleto. Guadalserbon, Guadato, and Biar: on the left, the lesser Guadiaua, Guadalentin, Jaen, Guadajoz, Xenil, and Corbones. It falls into the Atlantic at San Lucar, after a winding course of about 250 miles.

Biar: on the left, the lesser Guadiana, Guadalentin, Jaen, Guadajoz, Xenil, and Corbones. It falls into the Atlantic at San Lucar, after a winding course of about 20 miles.

Guadalupe (gwidd-d-lüp'), in Texas, a river rising among the mountains in Kerr co., flows a general E and S. E. course through Blanco, Comal, Guada, Gonzales, De Witt, and Victoria cos., and enters Espiritu Santo bay between Calhoun and Refugio cos.

—A S. central co.; area, about 710 sq. m. Rivers. Guadalupe, San Marcos, and Cholo rivers. Surface, undulating; soil, fertile. Products, cotton, corn, and sweet potatoes; is also a fine grazing section, and much live-atock raised. Cap. Sequin. Pop. (1890) 15,217.

—A village of Victoria co., 6 m. S. E. of Victoria.

Guadalupee, or Guadalure Hidado, a town of Mexico, in the State of Mexico, and about 3 m. N. of the city of Mexico. In 1848 a treaty of peace was here concluded between the United States and Mexico, by which the latter ceded to the former the territories of Upper California and New Mexico.

Guadalupee, an island in the Pacific Ocean, off the coast of Lower California, Lat. 29° N., Lon. 118° 22′ W. Guadalupee Rivers, in California, enters San Francisco bay between Santu Clara and San Mateo cos.

Guadalupee, Calivo, a town of Mexico, about 175 m. S. S. W. of Chihuahua. Prp. about (1895) 6,000.

Guadeleupe, (goo-a-da-loxy), an island of the W. Indies, one of the Leeward group, belonging to France, Lat. 13° 47′ N., Lon. 61° 15′ W. It is divided into two distinct parts by a narrow arm of the sea called Rivière Salée. The larger portion, or Guadeloupe proper, has an area of about 300 sq. m., and is generally low, never rising to which are La Soufrière, an active volcano, about 5,106 feet in height, and the extinct volcanoes La Grosse-Montagne, Lee Deux Mamelles, and Le Piton-de-Bouilant. The other portion, Grand-terre, has an area of about 300 sq. m., and is generally low, never rising to more than 115 feet above the sea-level. The climate is unhealthy, but the soil is very fertile. Hurri

near the Magdalena River, about 45 m. N.W. of Bogota. It has an elevation of about 8,700 feet above the sew-

level. Pop. about 500.

Gua/fo, or Huaro, an island in the Pacific Ocean, off the coast of Chili.

coast of Chili.

Cmaincum. (groat'yd-kum.) n. [Fr. guayac, its native name.] (Bot.) A genus of plants, order Zygophyllacer.
The species G. officinale is a fine evergreen tree. from 40 to 60 feet in height, and of a dark, gloomy aspect. It is a native of the West India islands, particularly Cuba. St. Domingo, and the S. side of Jamaica. The wood is remarkable for its hardness, toughness, and durability; qualities which render it particularly valuable for many purposes. It is known in commerce as lignum vitz.



Fig. 1208. — GUAIACUM OFFICINALE.

(Lignum vites.)
This wood and a resin obtained from it are officinal in our pharmacoposias, and are commonly known in the slops respectively as guatacum-sood and guatacum-resin. The latter is generally procured by heating the wood, either by boiling chips in sait-water, or more commonly by burning holiow billeta, and catching the resin as it flows out from them. It also exudes to some extent spontaneously, and especially so when the tree is cut or wounded in any way.

wpoutaneously, and especially so when the tree is cut or wounded in any way.

Guaisme'eo, a group of islands off the W. coast of Patagonia; Lat. 47° 41' S., Lon. 74° 55' W.

Guaieu'hi. See Velhas, (Rio das).

Guailas. See Huatlas.

Guai'mia, a river of Venesuela, joins the Cassiquiare to form the Rio Negro.

Guaite'ea. See Guattroas.

Guaie'ea. See Guattroas.

Guaiaba, or Guaxaba, (gua-ha'ba,) a small island off the N. coast of Cuba, Lat. 21° 50' N., Lon. 77° 28' W.

Guaiaba'a, in California, a post-village of Mendocino co.

Guaiam', a town of Guatemala in Central America, near Montagua; pop. abt. 2000.

Gualate'i'ri, a peak of the Andes, in Peru; Lat. 20° 13' S., Lon. 59° 17' W.

Guaili'lias, a pass of the Andes, in Peru, about 25 m.

N.S. of Tacna.

Gu'am, Guahon, or San Juan, the chief and most S. of

N.E. of Tacna.

Guamm, Guahon, or San Juan, the chief and most S. of
the Marianne islands in the Pacific; Lat. 27° N., Lon.

145° E. Circum, f. 100 m. Prod. Guavas, lananas, cocoas, oranges, and limes. The central part of the island
is mountainous, and has a small voicano. The natives
construct the most rapidly sailing canoes in the world. The Spaniards have a settlement on the island. Pop. 8,100, of whom about 1,400 are Europeans.

Gua/ma, a river of Brazil, enters the bay of Guajara

near Belem of Para.

Guamo co, a town of the Republic of Colombia, about 70 m. N. E. of Antioquia. Has now fallen into a state of almost complete decay.

of almost complete decay.

Guammé-te, a village of Ecuador, near Guayaquil, on an island formed by two rivers. In 1803 the Indians arose and massacred a number of the whites.

Gua'ma, n. (Zoöl.) See Penetrope.

Gua'ma, n. (Zoöl.) See Iguana.

Gua'ma, n. amee of several small islands in the W. Indies, the most important being off the N. coast of Abaco;

gree about 35 ac.

dies, the most important being on the N. coast of Acaco; area, about 36 sq. m.

Guamabacco'a, a town of Cuba. on the E side of the harbor of Havana; pop. abt. 18,000.

Guamaca'che, a lagoon in the Argentine Republic, between Mendoza and Nan Juan. It consists of a number of lakes and marshes, interspersed with numerous islands.

islands.
Guama'caa. (Paramo De.,) a spur of the Andes in the United States of Colombia; Lat. 2° N., Lon. 76° W.
Guama'co. n.; pl. Guanacos. [8p.] (Zodl.) A South-American wool-bearing quadruped; a species of Idama. Guamapa'ro, a river of Venezuela, joins the Portuguesa 30 m. N.W. of San Fernando de Apure.
Guamari'do, a river of Venezuela, joins the Portuguesa's abt. 154 m. 8.W. of Caracas.
Guamari'do, a town of Venezuela, on Guanare River, abt. 50 m. E. of the town of Guanare.
Guamaxuato, or Guanara, (Anga-na-Augi'to,) a state of Mexico, abt. 110 m. N.W. of the city of Mario:

erea, about 12,618 eq. m. Bisers. Rio Grande, and some smaller streams. Surface, mountainous; soil, in some parts fertile. Mis. Gold, silver, lead, tiu, iron, autimony, sulphur, cobalt, cohre, saits, and marble; at one time being the richest mineral region in the known world. Cap. Guanaxuato. Pop. (1895) 968,113.

A city, cap. of the above dept., about 160 m. N. W. of the city of Mexico; Lat. 21° N., Lon. 101° W. It is in a narrow mountain defile, 6,017 feet above sea level, and consists of several villages built around the mines to which it mainly owes its importance, though there are manufactures of linen and woollen cloth, scap, powder, tobacco, &c. It was founded by the Spaniards in 1546, and about the beginning of the present century contained 70,640. Pop. at present about 63,000.

Guanceabem'ba, a village of Ecuador; Lat. 5° 10' S., Lon. 79° 30' W. It is built 6,500 ft. above the sea. Guandacol', a village of the Argentine Republic, in a fertile valley of the same name, about Lat. 20° S., Lon. 69° W.

Guanae'ro, a river of Venezuela, joins the Apure abt. 150 m. 38° of Marida.

Council for a river of Venezuela, joins the Apure abt. 150 m. S. E. of Merida.

Guaniferous, a. [Eng. guano, and Lat. ferre, to

bear.] Producing guano.

Gu'amite, n. (Min.) Same as Struvitz, q. v.

Guamo, (gwa'no,) n. [From the Peruvian huano, dung.]

The excrement of sea-birds which has accumulated for Guamo, (gua'no,) n. [From the Peruvian huano, dung.] The excrement of sea-birds which has accumulated for ages on certain tropical islands, principally along the coasts of Peru, Bolivia, and Africa. It has been employed as a fertilizer by the inhabitants of Peru from the most remote periods, and by its use they have rendered fertile the otherwise unproductive sandy solis along the coast. While the Incas ruled, the birds were protected by very severe laws. Any one landing on the guano island during the time the birds were breeding, or who killed any of them at any time, was put to death. In 1804 specimens of G. were first brought to Europe by Humboldt, who seat them for examination to Fourcroy. Vanquelin, and Klaproth, the best analytical chenists of the day. He described it as deposited in layers 50 or 60 feet thick, upon the granite of many of the islands off the coast of Peru, and stated that during 300 years the coast-birds had deposited G. only a few lines in thickness; thus giving an idea what an immense period of time has been required to form the guano beds. The bones and feathers of the birds are found among the recent layers of the G., but the older deposits often exhibit the appearance of the phosphate of lime rocks of the older formations, and are an interesting instance of the conversion of recent accumulations of organic matter into what appears like an ancient rock. In the guano rock all traces of animal life liave disappeared, the heat and moisture of the tropics having induced chemical changes that in the lapse of time have changed these organic denosits into crystalcient rock. In the guano rock all traces of animal life liave disappeared, the heat and moisture of the tropics having induced chemical changes that in the lapse of time have changed these organic deposits into crystalline masses. A large portion of the Peruvian G. is imported from the Chincha Islands. These islands, three in number, are 5 or 6 miles in circumference, composed of granite and covered with G. in some places to a height of nearly 200 feet. The value of their G. is due to the dyness of the climate, the ammonia and some of the phosphates of these deposits being readily washed out by rain. This has reduced the value of the Bolivian and some other guanos, and largely ruined those of the West Indies, Africa, and Australia. The best Peruvian G., that of the Chincha Islands, contained about 15 per cent. of moisture, 51 of organic matter, 22 of phosphate of lime, 2 of silica, 3 of phosphoric acid, and 6 of alkaline salts, its value being largely due to its nitrogen, 1 ton of this material being equal in value to 33 tons of farm-yard manure. An active demand has long since depleted the Chincha guanoa, whose use ceased in 1874 from lack of supplies.—Fish Guano A substitute for G. which has come into considerable use consists of fish dried and ground to powder. For this purpose all animal life of the sea, such as mussels, starfish, crustaceans, and the waste material of the fisheries may be profitably employed. The difficulty of using this material, on account of its bulk and unpleasant character, has been obvisated by the method, adopted about 1862, of getting rid of its 60 or 80 per cent. of moisture by drying, and subsequently grinding the remnant to a fine powder. Per visin G. comes from fish which have been used as food by sea birds, while fish G. contains all the introgen and phosphoric acid of the fish, and thus powder. Peruvian G. comes from fish which have been used as food by sea birda, while fish G. contains all the nitrogen and phosphoric acid of the fish, and thus forms an excellent substitute. The heads and backness of the cod, obtained from the cod-fisheries of Norway, are made into this material, and refuse fish elsewhere are largely used for manure, the annual production being estimated at 75,000 tons. See FRETLIERES. antajaya, (hoon-ta-he'a,) a rich mining district of oru, prov. Tarapaca.

Peru, prov. Tarapaca.

Guamtama'imo, or Cumberland Harbon, an excellent harbor on the S. coast of Cuba, abt. 45 m. E. of Santiago.

Lat. of the E. headland 19° 53' N., Lon. 75° 15' W.

Lat. of the E. headland 19° 53' N., Lon. 75° 15' W.

Guanu'co. See Huanuco.

Guapal, or Guapat, (hwa-pe',) a river of Bolivia, flows into the Mamore.

Guapa'-Morim, (hoa-pre-mo-reeng,) a village of Brazil, prov. of Rio Janeiro; pop. 2,500.

Guapo're, a river of Brazil, prov. of Matto-Grosso, joins the Mamore to form the Madeira.

Guara, n. (2001.) The Scarlet blis. See Tantalids.

Guaraguam, Caño, (kan-yo hwa-ra-whan,) an embouchure of the Orinoco River, enters the Atlantic 55 m. N.W. of the Naviros.

Guarambari', a river of Paraguay, joins the Paraguay River abt. 25 m. N.W. of Concepcion.

Guarama, n. See Paullinia.

Guaramtee', Guar'anty, n. [Fr. garantié, from

garantir, to warrant; A. S. warran, to guard.] (Lass.) A promise, or undertaking, to be responsible for the debts or duties of a third party, in the event of his failing to fulfil his engagement. To make such an obligation binding, there must be some good consideration moving from the party with whom it is made: as the delivery of goods to, or work to be done on credit for, the person on whose behalf the guaranty is given. It must be in respect of a contemporaneous, or future debt or act. If a guaranty be made in respect of a debt already incurred, there must be a new consideration to support it. A consideration, however, need not be expressed; for if it can be fairly implied from the circumstances, or the language used, it will ordinarily be sufficient. It is sufficient if the person for whom it is given receive a benefit, or may receive a detriment. The Statute of Frauds, re-enacted almost in terms in the several States, stipulates that a defendant cannot be charged to answer for the debt, default, or miscarriage of another person upon the debt, default, or miscarriage of another person upon any special promise, unless the agreement upon which such action shall be brought, or some memorandum or note thereof, shall be in writing, and signed by the party charged therewith, or some other person duly au-thorized by him. This statute only applies, however, to engagements in which the guaranter is only liable conditionally upon the default of some other person: where he is liable co-extensively with the other party in the first instance, it does not apply.

—v. a. To guarantee; to warrant.

Guarantee', w. He to whom a guaranty is made; — correlative of coverager.

correlative of guarantor.

Guarantees, v. a. To undertake or engage that another person shall perform what he has stipulated; to undertake to secure to another, at all events; to indemnify; to warrant; to make good.

Guaranteed, pp. Warranted; as, good quality is maranteed.

guaranteed.
Guarantee, (gar-an-tor',) n. (Law.) He who makes a guarantee, (see Notz.) q.v.
Guaranty: a warrantor.
Guaranty, n. [See Guarantee.] (Law.) A guarantee, (see Notz.) q.v.
Notz. (Guaranty is the ruling form used in the U.
States; and guarantee in Great Britain.)
Guarapart', in Brazil, a river which rises in the Cordillera of Aimores, and flows a general E. course to the Atlantic Ocean.—A mountain range, prov. of Espirito-Santo.—A town in the prov. and abt. 30 m. S.W. of the town of Espirito-Santo.
Guarant/chee. a river of Venezuela enters the Gulf

Guarapi'che, a river of Venezuela, enters the Gulf of Paria, abt. 36 miles W. of the most N. mouth of the Orinoco.

of Paria, abt. 30 miles W. of the most N. mouth of the Orinoco.

Guarati'sa, a village of Brazil, abt. 30 m. W.S.W. of Rio Janeiro. Pop. abt. 4,500.

Guarati'sa, a village of Brazil, abt. 30 m. W.S.W. of Rio Janeiro. Pop. abt. 4,500.

Guarati'sa, of São Paulo.

Guarati'sa, in Brazil, a river of the prov. of Minasdersea, which joins the Rio Verde, an affuent of the São Francisco.—Another river of the prov. of São Paulo, which enters the Atlantic Ocean Lat. 22° 45' S.—A town, prov. of São Paulo, abt. 23 m. 8.8.W. of Paranagua.

Guarat, (gard.) v. a. [Fr. garder: It guardare, to defend; Teut. warden; A.S. weardian, to watch. See Ward.] To keep watch over; to defend; to protect; to shield; to secure against attack, injury, or loss; to keep in safety; to accompany for protection.—To cover the edge of, as with a border:.—hence, to bind or ornament with braid, lace, &c.; as, a guarded livery, a guarded discourse.—Sakas.

— n. To watch in a cautious manner, or defensively; to

To watch in a cautious manner, or defensively ; to

—e. m. To watch in a cautious manner, or defensively; to be cautious or circumspect; to be in a state of safety or security; as, we have guarded against failure.

—n. [Fr. garde; A. S. weard.] That which defends, shields, or protects; any defence, shield, or protection.

(Mil.) A man, or one of a body of men, occupied in preserving a prison or place from attack or injury; a sentinel; a watch; a sentry; as, to call the guard, to relieve the guard.

They . . . had their guards and spice, after the practice of tyra

An escort; a body of attendants, accompanying for pro-tection or safe-keeping.—A state of caution or vigilance care; heed; attention; watchfulness.

"Malice and revenge had put him on his guard."-Dr An officer who has charge of a railroad-train, mail-coach, or other public conveyance; a conductor; as, a railway-guard. (Used in Eng.)—That which secures against cavil, objections, or censure; careful or limited expresion or admission; as, "guards and restrictions."

That which secures against injury, defacement, or loss;
—whence, the bowl or basket of a sword-hilt, or that which serves as a protection for the hand.—An ornamental hem, lace, edging, seam, or border.—The chain or ribbon which serves to fasten a time-piece, &c., to one's person; as, a watch-guard.—A kind of fine wire-grating or network, placed opposite to, or over, a hearth, &c.; as, a fire-guard.—A railing placed at the sides of a vessel, to prevent persons from falling overboard.

(Fincing.) A posture or attitude of defence; as, the thrust went through his guard.

(Mil.) Advanced guard, or canguard. See ADVANCED.
—Guard-mounting. Parade of mounting guard.—To mount guard. See MOUNT.

Off guard. Incautious; inattentive: in a careless state. Atterburu

Off guard. Incautious; inattentive: in a careless state Temerity puts a man of his guard."-L' Betrange.

(Mil.) Relieved from duty; as, an officer of guard.
On guard, or on the guard. Vigilant; on the alert;
in a state of watchfulness.

" It is wisdom to keep ourselves on the guard."-L' Estrange.

(Mil.) Acting or serving on duty as a guard; as, we

(Mil.) Acting or serving on duty as a guard; as, we were detailed on guard.

To run the guard. To pass the watch or sentry without answering to challenge.—See Guard.

To run the guard. To pass the watch or sentry without answering to challenge.—See Guard.

I at. Laucia Oppidana.] A fortified town of Portugal, in the prov. of Beira, on the Mondego, 20 m. S.E. of Visen. G. is the see of a bishop, possesses a remarkable cathedral, was founded by Don Sancho II., king of Portugal, and received its name from its serving for a long time as a bulwark (guarda) against the Moorn. Pop. 3,200.

Guard'ables, a. [Fr. gardable.] That may be guarded. Guardafasi, (guar'da-fuec.) [Lat. Aromatum Promontorium.] The cape forming the most E. part of Africa, at the N.E. extremity of the coast of Adel; Lat. 11° 46' N., Lon. 49° 38' E. It is a lofty mountain, and serves as an excellent landmark for navigators.

Guard'ables, a. (Nocal.) A boat that goes the rounds of ships of war lying in harbor, to ascertain if their officers of the watch keep a good lookout.

Guard'e-chamber, s. A guard-room; an apartment in a royal palace devoted to the use of the guards on duty, Guard'ed, a. Cantious; wary; pradent; circumspect; as, he is guarded in his actions.—Expressed with circumspection and caution; as, his language to me was guarded.

Guard'edlay, adv. In a guarded or wary manner.

guarded.
Guard'edly, adv. In a guarded or wary manner.
Guard'educes, n. State or quality of being guarded;

caution.

Guard'er, n. A guardian; one who guards.

Guard'ful, a. With caution.

Guard'fully, adv. In a guardful manner.

Guard'an, (900-ar'de-a,) a small town of 8. Italy, 12 m.

8.8.E. of Chieti; pop. 6,740.

Guardiam, (adr'di-an,) n. [Fr. gardian, 3p. guardian]

One who guards, protects, preserves, or secures; one to

whom anything is committed for care or safe-keeping. "The appointed guardiene of the Christian faith."- We

whom anything is committed for care or safe-keeping.

"The applanted guardisme of the Christian faith."—Westend.

(Law.) One chosen or appointed, by statute or by will, to take charge of the estate or education of san orphan or ward, or a person who is imbecile or otherwise incompetent to manage his own affairs. A G. is not allowed to reap any benefit from his ward's estate, but must account for all profits, which the ward may elect to take or charge interest on the capital used by him. He can invest the money of his ward in real estate only by order of court; nor can he convert real estate into personalty without a similar order. He may lease the land of his ward; but if the lease extends beyond the minority of the ward, the latter may void it on coming of age. He may sell his ward's personalty without order of court, and dispose of and manage it as he pleases. He is required to put the money out at interest, or show that he was unable to do this. If he spends more than the interests and profits of the estate in the maintenance and education of the ward, without permission of the court, he may be held liable for the principal thus consumed. If he erects buildings on his ward's estate out of his own money, without order of court, he will not be allowed any compensation. Contracts between guardian and ward, immediately after the latter has attained in marketing the market ward. of his own money, without order of court, he will not be allowed any compensation. Contracts between guardian and ward, immediately after the latter has attained his majority, are unfavorably regarded by the courts, and will be set aside where they redound to the profit of the G. He is entitled to the care and custody of the person of his ward. If a female ward marry, the guardianship terminated both as to her person and property. It has been thought to continue over her property if she marries a minor. If a male ward marries, the guardianship continues as to his person. If he marries a female minor, his G. will also be entitled to her property. A G. may change the residence of his ward from one county to another in the same State; but it seems that the new county may appoint another G. Whether he has the right to remove his ward into a foreign jurisdiction, has been a disputed question. By the common law, his authority both over the person and property of his ward was strictly local; and this is the view maintained in most of the States.

G. of Sviritualities (Eccl. Law.) The person to whom

was strictly local; and this is the view maintained in most of the States.

G. of Spiritualities. (Eccl. Law.) The person to whose the spiritual administration of a diocese is intrusted during the vacancy of the see.—G. of Temporalities. (Eccl. Law.) A person appointed by the sovereign, during the vacancy of a see, to take care of the goods and profits of the same, and render an account thereof to the Exchequer. (Eng.)

G. of the Phor. A person appointed in a parish, or union of parishes, to act in lieu of overseers, and to superintend all matters relative to the relief and management of the poor. (Eng.)

-a. Protecting; performing the office of a protector; as, guardian care.

"A guardian angel o'er his life presiding."—S. Bagers.

Guardianiess, a. Having no guardian.
Guardianship, n. The office of a guardian; protection; custody; care.

"Theseus assigned to himself the guardianship of the laws."

Guard less, a. Having no guard; without defence; as, "the guardless herd."
Guard'-rooms, n. A room set apart for the accommodation of guards; also, a place of temporary confinement of soldiers.

Guard's-room, s. A room set apart for the accommudation of guards; also, a place of temporary confinement of soldiers.

Guardis, s., pl. (Mil.) The term applied to those troops especially attached to the person of a sovereign, or chief ruler of a state. Body-ywards have been an inseparable accompaniment of monarchy from the earliest age; the Assyrian and Persian kings employed them, and the corps of Arygraspides, or "aliver-ahields," were selected

by Alexander out of the bravest men of his army. The Roman emperors had their Pretorian guard. Napoteon I. first created a small troop of body-guards, with the title of Guides, while he was yet only general, in his first Italian campaign. From this arose by degrees the great institution of the Impriat Guard, consolidated in 1804, which ten years later comprised 102,708 men, and after being dislanded by Louis XVIII. in 1816, was restored by Napoleon III. in 1854. It consists of infantry, cavalry, and artillery. In England, the Guards (otherwise called household troops) consist of two regiments of Life-Guards, the royal regiment of Horse-Guards, and 3 regiments of Foot-Guards. Many of the European sovereigns before the French revolution had small corps of foreign troops which served in this capacity. Thus the French had, in former times, the Guard of Scottish Archers, and at a later period, a body of Swiss guards, called the Cent Susies. The Cent Gardes formed by Napoleon III. are founded upon the latter. The Pope still retains his Swizs guards. In Prussia there is both infantry and cavalry of the guard, and the Russian imperial guard forms an entire corps d'armée, 50,000 strong. See NATIONAL GUARD; YEOMEN OF THE GUARD, &c. Guard'-ship, n. (Navol.) In England, a large ship of war on harbor duty, appointed to protect unarmed vessels lying at anchor in the port.

Guard's mam, n. (Mil.) An officer or private in a body of troops whose duty it is to guard the sovereign's person.

— In England, an officer or private of the Horse-, Life-, or

person. In England, an officer or private of the Horse-, Life-, or Foot-guards.

Guari'ee, a river of Venezuela, joins a branch of the Apure, abt. 12 m. E. of San Fernando.

Guari'co, a river of Venezuela, joins a branch of the Apure, abt. 12 m. E. of San Fernando.

Guari'co, a cape near the E. extremity of the island of Cuba, W. Indies.

Guarieu'ra, an island of Brazil, in the Amason River, opposite the town of Pará. Arca, abt. 700 sq. m.

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Guarieu'ra, an island of Brazil, in the Amason River, opposite the town of Pará. Arca, abt. 700 sq. m.

Guarieu'ra, an island of Brazil, in the Amason River, opposite the town of Pará. He was secretary to Alphonso, duke of Ferrara, 1657. He was secretary to Alphonso, duke of Truccany; and subsequently, to the duke of Urbino. He was well acquainted with polite literature, and wrote several admired poems; but his chief composition is his pastoral drama, entitled Il Pustor Fido.

In some respects this poem is considered to rival Tasso's Aussta; and it has passed through a very great number of editions, besides being translated into almost all European languages. D. 1612.

Guariante, a. (Min.) A yellow transparent mineral found in small cavities in a grayish trachyte on Monte Somma. Sp. gr. 3-487. Comp. Silica 33-64, titanic acid 392, lime 29-01, oxide of iron and manganese a trace.

Guarianney', (shar-re-sai-sac') a mining-town of Mexico, abt. 56 m. S.S.W. of Durango.

Guarmey', a village of Peru, at the mouth of the Guarmey, be, in Venezuela, a river uniting the Apure and Portuguesa rivers.—Another river, which flows into the Ortuguesa rivers.—Another river, which flows into

warma po, in Venezuela, a river uniting the Apura and Portuguesa rivers. —Another river, which flows into the Orinoco River.

\*\*Bases man Point, a promontory on the W. coast of the Republic of Colombia, Lat. 2° 30′ N., Lon. 78° 31′ W. a rivers. —Another river, which flows into

37 W.

Guastalla (goo-as-tal'la), a fortified town of Italy, on the right bank of the Po, 16 m. N. E. of Parma, and 18 N. of Modens. Manuf. Silk fabrics and twist. Pop. 10,000.

Guastata'y a, a town of Central America, about 35 m.

E. N. E. of Guatemala.

E. N. E. of Guatemala.

Guntavi'an, a village of the Republic of Colombia, abt. 20 m. N. B. of Bogota. Previous to the Spanish conquest it was a town of great importance, and on the banks of the Lake of Guatavita near it are the ruins of many once magnificent and venerated Peruvian temples.

Guntaemala, or Guatimala, (head-b-mai/la,) a republic of Ceutral America, extends between Lat. 14° and 17° N., and Lon. 89° and 94° W.; having N. Yucasan and Mexico, E. Hondurus and Sam Salvador, and 8, the Pacific Cesan. Area, 40,777 sq. m. The physical features of the country are mountainous throughout, and although no very distinct mountain chain traverses G., an elevated plateau occupies the central parts of the country, forming a kind of chain of communication between the Cordillerss of S. America and the mountain-ranges of Cordileras of S. America and the mountain-range Mexico. This plateau rises much more precipitously from the side of the Pacific than the Atlantic, the genmexico. This plateau rises much more precipitously monthe side of the Pacific than the Atlantic, the general alope of the country being to the N.E. The table-land averages perhaps 5,000 feet in height above the ocean,—the loftiest summits, which are either active or extinct volcance, being in that part of the Confederation. The Water Volcance, near G., so called from its frequently emitting torrents of hot water and stones, but never fire, is 12,620 ft. above the Pacific. There are two large plains—those of Nicaragua and Comayagua, besides many of less size on the banks of the larger rivers, and along the shores; these principally consist of extensive savannas with rich pasturage interspersed with clamps of trees. All the larger rivers flow N.E. or E, the proximity of the high mountain range to the Pacific permitting but a short course to those flowing W. The Montagua is of considerable size, and useful for the conveyance of goods into the interior of G. The principal lakes are the Golfo-Dolce, and those of Leon or Managua, Peten, Atitan, and Amatitan. The Golfo-Dolce, 2im long by 10 broad, receives several rivers, and discharges itself by the Rio Dolce into the Bay of Honduras. The coast plains are subject to violent tropical heats, and are very unhealthy, especially those on the E court of the Carbharoot of the content of the principal and the content of the principal can be the content of t cal heats, and are very unhealthy, especially those on the E coat, on the Caribbean Sea, where fevers inces-santly prevail. These are chiefly inhabited by the In-dian race. The climate of the table-land varies accord-ing to its elevation, but an equable, moderate, and agreeable temperature may be obtained there all the

year round, with a perfectly healthy climate. The dry season lasts from October to the end of May, during which N. winds prevail; and in the table-land, in Nov. which N. winds prevail; and in the table-land, in Nov.
and Dec., water exposed to the open air at night is sometimes, though rarely, covered with a thin pellicle of ice.
The rest of the year is entitled the wet season; but the
rains, though heavy, last only during the night, and
the days are fair and cloudless. Earthquakes are very valuable kind aio di maria, a species &c. But the The forests yield many valuable kinds of tim rrequent. The forests yield many valuable kinds of timer, including mahogany, cedar, paio di maria, a species of wood well adapted for ship-building, &c. But the logwood-tree is by far the most valuable of the products of the forest. It is found here and in the adjoining peninsula of Yucatan in the greatest perfection, and is a most insula of Yucatan in the greatest perfection, and is a most important article of export; a species of Brazil wood is also exported. Among the other vegetable products may be enumerated the dragon's-blood, mastic, paine (Nrist), and other balsamic, aromatic, and medicinal plants; with the sugar-cane, cocca, indigo, coffee, tobacco, and cotton, which are extensively cultivated. The crops vary according to the elevation of the surface. Below the level of 3,000 ft., indigo, cotton, sugar, and cocca are the principal. The last is chiefly grown along the shores of the Pacific. The district is also distinguished for the growth of indigo, to which the agriculturists devote their attention so exclusively as almost wholly to neglect the cultivation of articles of prine necessity. Between the heights of 3,000 and 5,000 ft., the nopal, or cochineal plant, is a favorite object of cultivation, particularly in the neighborhood of Guntemala. Maize is generally grown, but wheat only in the high table-land in the N. Flax and hemp, though they flourish luxriantly, receive little attention, owing to the superior facilities for growing and manufacturing cotton; and wanills is suffered to run to waste for want of hands to gather and prepare it. Agriculture, and cattle and sheep-breeding, are the chief occupations of the people; but the manufactures are not quite unimportant. Coarse woollens are manufactured, together with some cotton clotha, caps, and hats. A good many hands are also employed in making earthenware, furniture, wooden articles in cabinet work, &c.; and an inland trade is carried on in mata, woven of different colors by the Indians, and used at G. as carpeta.—Miss. Gold is found in most of the river-beds, silver, sait, and saltyetre are mined, and lead, iron, copper, coal, qucksilver, sinc, &c., occur, though little mining is done.—Gov. The governing powers are: a president, a council of state, and a house of representatives, elected by universal suffrage. The Roman Catholic is the established religion, but complete re

coast of Porto Rico, West Indies.

Gua'vas, s. (Bot.) A tree of the genus Pridium, native of tropical America. There are two species. The Common or White guava, P. pyriferum, is a low tree, 17-20 ft. high. with numerous branches, obtuse smooth leaves, and fragrant white flowers on solitary axillary stalks. The fruit is larger than a hen's egg, roundish or oblong, smooth, yellow; the rind thin and brittle; the pulp firm, full of bony seeds, fiesh-colored, aromatic, and sweet. The jelly or preserve made from it in the W. Indies, and chiefly at Havans, is highly exteemed. The rind is stewed with milk, and is also made into marmalade. This fruit is rather astringent than laxative.

G. buds, boiled with barley and liquorice, make a useful astringent drink in diarrhoss.—The Red guava, P. pomif-

GUBE



Fig. 1209. - GUAVA. (Pridium puriferum.)

m (Fig. 1209), produces a beautiful fruit, with red fles

crum (Fig. 1209), produces a beautiful fruit, with red fiesh, but not nearly so agreeable as the white guava.—It is very acid. See PSDRUM.

Sunyaquill, (hwi-a-kezi',) a dept. of Ecuador, bordering on the Pacific Ocean; area, abt. 14,400 sq. m. Rivers. Guayaquil River, and some smaller streams. Surface, diversified, the Andes forming its E boundary. Sui, in some parts fertile. Cap. Guayaquil. Pop. abt. 75,000.—A city, cap. of the above dept., on the Guayaquil River, about 40 m. above its mouth; Lat. 29 20 28" S., Lon. 79° 43' W. It consists mostly of wooden houses, built upon low unhealthy ground, badly supplied with water,



Fig. 1210. - CATHEDRAL OF GUAYAQUIL.

and infested with vermin. There are nevertheless some good edifices, and the Cathedral (Fig. 1210) is a fine specimen of the ecclesiastical architecture which prevails in South America. The exports are chiefly ecces, timber, hides, tobacco, osito-wool, and cattle. Its harbor is one of the best on the Pacific coast. Pop. (1897 about 40,000. Guayaquil, Gulf of, an arm of the Pacific Ocean in

It receives the Guayaquil, Daule, and Tum-

bez Rivers.

Sunsy mans, (heo'mas,) a sea-port town of Mexico, state
Sonora, at the mouth of a considerable river, on the E.
shore of the Gulf of California, 230 m. W.N.W. of El
Fuerte. Lat. 27'50' N. Lon. 1129' W. The town owes its
origin and rise to its magnificent harbor, the beat in Mexico. This inlet is capable of accommodating 200 vessels,
and is sheltered from all winds by the lofty hills which
surround it, and the island of Paxaros, which forms a
natural breakwater before its entrance. Close to the
pier there are 5 fathoms water, and deeper soundings,
with good anchorage, are found a short distance further
off shore. The more modern houses are large and well
built; the rest are chiefly of mud and flat-roofed. The
climate is healthy, though hot. Water, with provisions,
have to be conveyed to the town from a distance of
about 3 m., the immediate neighborhood being arid and
sterile. But the great commercial advantages of the Guayma have to be conveyed to the town from a distance of about 3 m., the immediate neighborhood being arid and sterile. But the great commercial advantages of the place countervail these drawbacks, and will probably render it the principal commercial depôt on the W. coast of Mexico: it being much superior as a port to either Maxatian or San Blas, and easier of access than Acapulco to vessels from China to Mexico, which from the prevalence of particular winds in the Pacific, seldom make the Mexican coast 8. of Guaymas. At this port and Maxatian, indeed, all the trade between Mexico and E. Asia is now transacted. G. is the Pacific terminus of the A. T. & Santa Fé R.R. Pop. abt. 5,000. Guay'ra, La. See La Guayta.

Guayta'ra, a river of Ecuador, an affluent of the Patia. Gubbio., (ponb'be-o.) [Lat. Eugubism.] A town of Italy, 21 m. S. of Urbino, at the foot of the Apennines. Many. Woollen and silk stuffs. Rich in antique Roman and Etruscan monuments. Pop. (1895) 5,343.

Gu'bem, a city of Bradenburg, Prussia, at the confluence of the Neies and Lubst. 27 m. S. of Frankfort-outhe-Oder. Many. Cloth, woollen stockings, linens; tanneries and bieweries of importance are in the vicinity. Pop. (1891) 23,764.

Digitized by GOOGIG

Gubermate'rial, a. [From Lat. gubernator. See Governos.] Relating or pertaining to government, or to a governor. (Used sometimes in the U. States.) Guehliaque, (goo-che-la'ka', a town of Mexico, abt. 30 m. 8. of the city of Mexico. Elevation, 7,000 ft. Gudgeon, (gudjon.) [Fr. poujon.] A small European Malacopterygious fresh-water fish of the genus Gubio. (Care.) It is about six to eight inches long, and half-cylindrical in shape; its back is pale-brown, spotted with black, the belly white, and the tail forked. The gudgeon swims in sheals, and feeds on worms and equatic insects. They afford great sport to anglers, from their greediness in seizing upon any bait presented to them. A species, 5 inches long, inhabits Niagara River.—A person easily cheated or bamboozled.—A bait; an allurement.

(Mach.) That part of a horizontal shaft or axle which turns in the collar; an iron pin fixed as a bearing in a beam or wooden shaft.

(Nast.) Eyes driven into a ship's stern-post, to ng the rudder on. (Sometimes written googings, or pl. bang

poodgeons.)

—e. a. To cheat; to swindle; to insuare. (R.)

Gu'dia, Theodora, a French marine painter, B. in Paris,
1802, became a pupil of Girodet Tricson, and on leaving
this artist confined his studies chiefly to marine and
landscape painting, which he practised both in oil and
water-colors. The picture which secured his fame was
the Sunctage des Pussagers du Columbus, which was
exhibited at the Salon in 1831, and is in the Bordeaux
Museum. The Cosp de Vent dans la Rade d'Alger, in
1838, which was still more admired, is in the Luxembourg. When Louis Philippe resolved to decorate the
interior of the pulace of Versailles, he selected M. Gudin
to print the principal events in the naval history of
France. The artist worked assiduously at this commission from 1838 till 1848, during which period he produced no less than 63 paintings, chiefly naval actions,
many of large size. His style was always somewhat
affected, and his success probably caused him to be negligent in details, slovenly in touch, and outr'd in composition, examples of which faults may be seen in his
pictures of Scottish scenery, The Banks of the Don,
Coast-Scener near Aberdern, &c., and still more in his
L'Incendie dus Frubourg dis Prru, &c. His earlier pictures of coast-ecenery in France and Holland are considered his best. M. Gudin resided in Scotiand after
1861. Died in 1880. dgeons.)
. To cheat; to swindle; to insuare. od his best. M Died in 1880.

Bielber, Guebre, Gheber, (geber.) s. [Pers. ghebr, an infidel; Turk. giaour.] A term applied by the Mohammedan conquerors of Persis to the disciples of Zoroaster in that country. They call themselves "Behendies," i. e., followers of the true faith, and are generally known by Europeans as fire-worshippers. Zoroaster is believed to have flourished in the 6th century, s. c. In course of time the system became very corrupted, and King Ardeshir Baleskan (A. D. 220) reformed it, collected the sacred books, and caused them to be translated from the Zend language into the vernacular dialect of Persia, and built temples for the preservation of the sacred fire. Under the Mohammedan invaders in the 7th century, they were much persecuted, and most of them embraced Islamism. A small remnant, who clung to their old faith, were finally allowed to settle in one of the most burren parts of the kingdom. They now number about 100,000 souls, dwelling chiefly in the city of Yezd, and the province of Kerman. They have the character of being industrious and virtuous, in comparison with the other Persians, but they are ignorant and depressed. A body of the Guebres left Persia at the time of the invasion and settled in Hindostan. At present they are numerous in Western India, where they are alided Pursees, from the country of their origin. They are honored by Europeans for their estimable qualities, and are the richest and most influential of the native citizens of Bombay. Their worship became corrupted with many Hindoo practices, and in 1852 an asociation was organized for the restoration of the crescot of Zoroaster to its original purity, which has had a considerable effect. They recognize one God. Ormuzd, invisible and omnipotent, the creator, governor, and preserver of all things. He sprang from primeval light, which emanated from a supreme incomprehensible essociation was organized for the restoration of the crescot of Loroaster to god sprint to act as the medium of his bounty to men, and intrusted them each with the worth which a Gueber, Guebre, Gheber, (geber,) a. [Pera. glebr, an influel; Turk. glaour.] A term applied by the Mohammedan conquerors of Persia to the disciples of

(G. C. H.), commanders and knights, both civil and military.

Guen'ec, in Culifornia, a village of Lake co.

Guen'ec, in Culifornia, and of the Simiadae, characterized by a moderately prominent muzzle, long tail, and the last of the inferior molars with tubercies. The species are very numerous, and of great variety of size. The species are very numerous, and of great variety of size. The species are very numerous, and of great variety of size. The species are very numerous, and of great variety of size. The species are very numerous, and of great variety of size. The species are very support of the species of the species

called Guzzcino from a cast in his eye, was born at Cento, near Bologna, in 1590; he was self-taught. He spent some time at Rome, but lived chiefly at Cento, until the death of Guido in 1642, when he settled in until the death of Guido in 1642, when he settled in Bologna, where he died rich in 1666. G. was an imitator of Caravaggio, and is one of the principal so-called Tembrosi masters, from the great depth and blackness of their shadows; but upon his settlement in Bologna he modified his manner, endeavoring to bring it nearer to that of Guido

don, (gér'don,) n. [Fr.; O. Ger. werd, wurd, price value.] A reward, recompense, or requital.

"He finds his guerden in his lady's smile." — Sedles

v. a. To reward with a guerdon; to make recompense. (R.

"We gave a costly bribe to guerdon silence." — Tenny

—v. a. To reward with a guerdon; to make recompense. (a.)

"We gave a costly bribe to guerdon silence."—Transpore.

Guer'domable, a. Deserving requitat or reward.

Guer'domable, a. Deserving requitat or reward.

Guer'domable, a. Deserving requitat or reward.

Guer'deke, Orro, (per'ik-e/r.) a German philosopher, who was counsellor to the elector of Brandenburg, and burgomaster of Magdeburg. He invented the air-pump and weather-glass, and published some treatises on experimental philosophy. B. 1602, p. 1686.

Guer'l'la, m. Same as Guerrilla, q. v.

Guér'im, Pirrre Narcisse, a French painter, z. at Paris in 1774. He was a scholar of Regnault, and became one of the most eminent painters of the classical school. Among his most celebrated works are Marcus Nextus, exhibited in 1800; the Emperor pardoning the Insurgents at Cuiro; Ciylemnestra, Cephalus, and Aurora, Dido, and Anong his most celebrated works are Marcus Nextus, exhibited in 1800; the Emperor pardoning the Insurgents at Cuiro; Ciylemnestra, Cephalus, and Aurora, Dido, and Emora. G. became professor at the school of Fine Arts, baron, and member of the Institute and Legion of Honor. Among his scholars were Gericault, Ary Scheffer, and Eugene Delacroix, who all distinguished themselves as masters in the new Romantic School. D. at Rome, director of the Freuch Academy there, in 1833.

Guer'ite, n. [Fr.] (Portif.) A small tower of sand or wood, to hold a sontinel.

Guermsey, (garw'say,) a British island, the second in size of the Channel Islands, Lat. 49° 24' to 49° 30' N. Lon. 2° 37' to 2° 41' W., 60 m. S.E. of Start Point, in the S. of Devonshire, 46 m. S.W. of Cherbourg, France. It has a lofty and abrupt coast, a fertile soil, and, especially in the low-lands, affords very fine pasturage. The inhabitants speak the Norman dialect, and the courts still make use of the French language. Pop. 34,000.

Guermsey, in Ohio, an E. co.; area, about 517 sq. m. Riors. Willa, Seneca and Leatherwool creeks. Sargace, hilly; soil, moderately fertile. Mis. Coal. Cap. Cambridge

party, the *Yorkinos*, and was repeatedly called into active service in his military capacity. Having been successful in various contests of the aristocratical party, he at length, in 1829, was elected to the presidency. The expedition of Barradas soon gave employment to the new government; and the better to enable the president new government; and the better to enable the president to meet the exigency, he was invested with extraordinary powers; but after the victory over the Spanish troops, and when the invading expedition was destroyed. G. evinced an unwillingness to relinquish the dictatorship, which became the pretext of another revolution; and Bustamente, the vice-president, assumed the reins and Bustamente, the vice-president, assumed the reins of government. G., however, was not long idle; in Sep-tember, 18-20, he collected a large force at Villadolid, and established a form of government in opposition to that of Bustamente, and the whole country was agitated by troops in arms. But his career was almost run. In February, 1831, he was taken and shot.

Notherlands, b unded by Overyssel, Westphatis, N. Brabant, Holland, and Utrecht, on its respective lines of frontier. Area, 2,018 sq. m. Surface. Generally level. Rivers, dc. The Rhine, Meuse, Wasil, Yssel, and Leck, and numerous canals. Prod. Wheat, rye, buckwheat, poistoes, hops, and tolacco. Cattle-breeding is largely carried on. Massyl. Linen, paper, leather, tiles, liquors, beer, &c. Chief towns. Arnhem (the cap.), Nymwegen, Thiel and Zuthhen. Prop. (1885) 520,210.

Guelf, or Guelph (gwelf). [from the 1t. Gwelf, and Ger. Welfs.] The name of an illustrious family, which in the 11th century was transplanted from Italy to Germany, where it became the ruling race of several countries. The family still continues in the two lines of Brunswick —the royal in England and the dwood in Germany.

Guelph, a town of prov. of Ontario, cap. of Wellington co., un the river Speed, about 87 m. W. by 8. of Goderich. Prop. (1885) 9,890.

Guelph, Order of, or Royal Guelphic of Knighthood, founded in 1815, by George IV. of England (then Prince Regent). It consists of grand crosses (G.C. H.), commanders and knights, both civil and military.

Guernous and Nazer area, abt. 32,000 sq. m. Rivers. on the Pacific Ocean; area, abt. 32,000 sq. m. Rivers. on the Pacific Ocean; area, abt. 32,000 sq. m. Rivers. on the Pacific Ocean; area, abt. 32,000 sq. m. Rivers. on the Pacific Ocean; area, abt. 32,000 sq. m. Rivers. on the Pacific Ocean; area, abt. 32,000 sq. m. Rivers. on the Pacific Ocean; area, abt. 32,000 sq. m. Rivers. on the Pacific Ocean; area, abt. 32,000 sq. m. Rivers. on the Pacific Ocean; area, abt. 32,000 sq. m. Rivers. on the Pacific Ocean; area, abt. 32,000 sq. m. Rivers. on the Pacific Ocean; area, abt. 32,000 sq. m. Rivers. on the Pacific Ocean; area, abt. 32,000 sq. m. Rivers. on the Pacific Ocean; area, abt. 32,000 sq. m. Rivers. on the Pacific Ocean; area, abt. 32,000 sq. m. Rivers. In the Pacific Ocean; area, abt. 32,000 sq. m. Rivers. In the Pacific Ocean; area, abt. 32,000 sq. m. Rivers. In the Pacific Ocean; area,

Indian, inventor of the Cherokee alphabet; R. abt. 1770; D. at San Francisco, 1843.

Giness, (ges.) v. a. [D. gissen, to conjecture; Swed. gissa, to divine; Ir. geassim, to foretell; Ar. Arigat, to guess; Hind. gyas, to guess; obs. Heb. kasem, to divine.] To conjecture; to divine; to form, as an opinion, without certain principles or means of knowledge; to suppose; to surmise; to think at random; to imagine. You cannot guess who caused your father's death." - 5

To judge or form, as an opinion from some reasons that render a thing probable.

"One may guess from Plato's writings . . . that himself had a right opinion senceraing the true God."—Stillingslest.

right opinion escorrains the tree God."—Statingsteet.

To conjecture rightly; to solve by a correct surmine or conclusive opinion; as, I guessed the drift of his intestions.—To hit upon by accident.

(Nors. With regard to the popular misuse of the word in this country, Webster says.—"It is a gross vulgarism to use the word guess, not in its true and specifies sense, but simply for think or believe; as, I guess the mail has arrived; I guess he is at home. It is equally vulgar to use reckon in the same way; as, I recken the mail has arrived; if reckon he is at home.)

—. n. To conjecture; to judge at random; to surmise;—preceding at, about, of, &c.

preceding at, about, of, &c.

s. Conjecture; judgment or opinion without any cortain evidence or grounds.

" No man is blest by accident or guess." - Toung.

"No man is blest by accident or guess."—Towng.
Guess'able, a. That may be guessed or conjectured.
Guess'er, n. One who guesses; one who judges, or
expresses an opinion without certain knowledge.
Guess'ingly, ade. By way of conjecture. (a.)
Guess'ingly, ade. By way of conjecture. (a.)
Guess'ingly, ade. By may of conjecture.
Guess'ingly, ade. By may of conjecture.
Guess'ingly, ad. Conjectural; arrived at by guesses.
Guess'ingly, a Conjectural; arrived at by guesses.
Guess'ingly, a Work performed at hazard, or by
mere conjecture.
Guess'ingly, a Work performed at hazard, or by
mere conjecture.
Guess', Goth. gast; Dan. giest; Swed. gäst; Russ.
gosty; Magy. gasda; W. guester! One who is feasted
or entertained at the table of another; a visitor; a visitant; a stranger or friend received into the house of another, and treated with hospitality; a lodger, or sojourner, at a hotel or boarding-house.

"Welcome the coming, speed the parting guest."—Paps.

"Welcome the coming, speed the parting guest." -Pe Guest'-rite, n. Office due a guest.
Guest'-rope, n. (Naul.) See Guess-Rope.

Guest'-wise, a. In the manner of a guest; pertain-

ing to a guest.

Guestam'dia, n. [After Dr. Guettard, a French maturalist.] (Bot.) A genus of plants, order Cinchances.

G. speciosa, a native of the West Indies, is the tree from which the beautiful zebra-wood of the cabinet-makers is obtained.

Guffaw', n. A loud, stentorian burst of laughter; a horse-laugh.

Gug'gle, v. s. See Gurgle.
Gühr, (gûr,) s. [O. Ger.] A name applied in the East
Indies to a loose, earthy deposit from water, found in
the clefts of rocks, usually white, but sometimes red or

veilow from a mixture of clay or ochre.

Guia., (ghee'a,) a town of Braxii, abt. 30 m. N.N.E. of
Parahiba.

— A town of Braxii, on the Rio Negro, near the N. frontier.

Guiac, Guiacum, (gřak, gřá-kum,) n. See Guala-

CUM.

Guiama, GUYANA, GUAYANA, (gc-d'sa,) an extensive region of S. America, embracing in its widest acceptation all the territory between the rivers Amason and Orinoco, and extending between Lat. 4° S. and 8° 40° N., and Lon. 50° and 68° W. By far the greater portion of this region (formerly called Spenish and Invasional Changeana) belongs to the Venezuelan and Brazilian territories; and the term Guiana is now generally understood to refer only to the country between Lat. 0° 40°.

stood to refer only to the country between Lat. 0° 40′ and 8° 40′ N., and Lon. 57° 30′ and 60° W., divided among the English, French, and Dutch.

G. (Berrish, ) the most W. portion of the above territory, and the largest, if we include within its limits the extre territory claimed by the British. The latter extends and the largest, if we include within its limits the es-tire territory claimed by the British. The latter extends between Lat. 0° 40′ and 8° 40′ N., and between the 57th and 61st degree of W. Lon.; having K. Dutch Gukan, from which it is separated by the Corestry; S. Brasil; W. Venezuela; and N. and N.E. the Atlantic. Area.

76,000 sq. m. Grw. Drsc. An alluvial flat extends inland to the foot of a group of low hills, which cross the Escepuibo in Lat. 6° 18', being continuous with the Sierra Imataca in Venesuela. About Lat. 5° a mountain-chain, an offset of the Orinoco range, runs W. to E., rising in places to the height of 1,000 ft. above sea-level. About a degree farther S. are the Pacaraina Mountains, which also run W. and E. Its highest point, Mount Roraima, near the W. extremity of the territory, is 7,500 ft. high. The Conocou or Canucu chain running S.E. connects the Pacaraima with the Sierra Acarai. The latter is a densely wooded chain of mountains forming the southern boundary of British C., and the watershed between the basins of the Amazon and Essequibo. The latter river and the Corentyn both rise in it. Extensive savannas are found between E. of the Berbice River and S of the Pacaraima chain, together with swampy tructs of country; but with these exceptions the interior is mostly covered with hill ranges and dense forests. Rivers. The chief rivers, all having a N. direction, are the Escapuibo. Corentyn, Berbice, and Demerara. From the detritus brought down by these streams and deposited around their mouths, the whole coast is shoaly for 12 or 15 m. seaward.—Geod., dc. The chief rocks are granite, porphyry, and various kinds of trap, gaeles, sandatone, and colored orchrea, Traces of iron are found, and gold exists and is numed to some extent.—Climate. The mean temperature of the year at Georgetown is 810°2 Fahr., the maximum 90°, the minimum 74° on the coast. Two wet and two dry seasons constitute the changes of the year. Hurricance are unknown, and gales are unexists and it initied to some extent.—Climate. Interment temperature of the year at Georgetown is 810 2' Fahr, the maximum 90°, the minimum 74° on the coast. Two wet and two dry seasons constitute the changes of the year. Hurricanes are unknown, and gales are unfrequent. The climate, generally speaking, with the exception of the low and awampy coast-lands, is salubrious.—Veget. and Prod. The forests abound with trees of immense size, including the more excelsa, sipari or green-heart, and many others, yielding the most valuable timber, and an abundance of medicinal plants, dyewoods, and others excellent for cabinet-making. Biza orellana grows in profusion. That magnificent specimen of the 8. American flora, the Victoria Regia, was discovered by Sir R. Schomburgk, on the banks of the Berbice.—Zool. The jaguar, puma, speccary, will hog, tapir, and many kinds of deer, abound in British G. The sea-cow is met with in the larger rivers, which are also inhabited by the cayman, guana, and alligator. There are several kinds of immense, but generally inactive, serpents. Turtless are plentifully, and the rivers teem with fish.—Agric. Act. The staples of British G. are sugar, coffee, and cotton: among the minor products are rice, maize, Indian millet, cocca, vanilla, tobacco, and cinnamon. The savannas between the Berbice and the Demeara occupy upwards of 3,000 equare m., are clothed with nutritious grasses, plentifully irrigated, interrepread with shady woods, and feed large herds of wild cattle and horses.—Goot and Fis. The executive administration is controlled by an English governor, assisted by a legislative assembly, or "college of electors," appointed by the Roman-Dutch law.—Belgion, &c. All shades of religious belief are allowed the fullest exercise.—Chief towns. Georgetown (the cap.), and New Amsterdam.—Pop. 155,080.—Helley, According to some, Columbus Great Britain, but civil cases are, in general, ruled by the Roman-Dutch law.—Religions, &c. All shades of religious belief are allowed the fullest exercise.—Chief torsus. Georgetown (the cap.), and New Amsterdam.—Pop. 155,028.—History. According to some, Columbus discovered Guiana in 1498; others give that honor to Vasco Nuñez in 1604. The Dutch, who were its first European settlera, established themselves in 1580, and the English in 1630. Most of Guiana, however, remained in the hands of the former till 1796, when Demerara and Essequibo surrendered to the English. They were restored to the Bavarian republic in 1802; and retaken by the British in the following year; since which period the territory called British Guiana has belonged to that power; that called Dutch Guiana was given up to Holland at the conclusion of the war. For many years past a dispute has existed between Great Britain and Venezuela concerning the western boundary of British G. This relates to the country west of the Essequibo river, Venezuela claiming all the country up to that stream, while Great Britain made a somewhat indefinite claim of territory about the year 1876. As a result, Venezuela broke off diplomatic relations with Great Britain, and in 1895 the U. S. took an active part in the settlement of the controversy, President Cleveland appointing a commission to consider the alleged encruachments of Great Britain finally assented to this request, and the long-standing controversy was at once placed in a fair way of settlement.

G. (Durch.) This territory is intermediate, both in size and position, between British and French Guiana. It extends between N. Lat. 20 and 6°, and W. Lon. 53° and 57°, having E. French G., from which it is separated by the Marony; S. Brazil; W. the Corentyn, which divides it from British Guiana; and N. the Atlantic. Length, N. to S., 250; average breadth, about 155 m. Area. About 28,500 aq. m. Desc. The physical geography, climate, and productions of Dutch G. are pretty much the same as British Guiana. All the

comparatively settled mains, and receive annual presents of arms, &c., from the Dutch govt., the territory they occupy forning a kind of military frontier to the colony.

G., (FRENCH.) This, which is the most E. and smallest division of Guiana, lies between 2° and 6° N. Lat., and 51½° and 54½° W. Lon., having E. and S. Brazil, W. Dutch Guiana, and N. and N.E. the Atlantic. Length, N. to 8, 250 m.; breadth varying from 100 to 190 miles. Area, 27,560 sq. m. Drac. The coast plain (bassaterres) is an alluvial tract of extreme fertility. The uplands (terres hautes) are also very fertile, with a mixed argiliaceous and ferruginous soil. The mountain chains run E. and W.: they are almost wholly granite, and in the centre of the colony rise from 1,600 to 2,000 feet above sea-level. Few countries are more abundantly watered. There are upwards of 20 rivers of considerable size, all of which have a N. course, and in the rainy season inundate the low country to a great extent, but are then innavigable from their great rapidity. The coasts are low, and, except at the river mouths, ships cannot approach the shore. There is only one readstead, that of Cayenne, where vessels can ride in security. Several small rocky or wooded islands fringe the coast, among which is Cayenne, at the mouth of the Ozapoh, on which the cap, is built. Clim. The climate resembles that of British Guiana, but the coast-lands appear to be less unhealthy. Agric., Prod., &c. Alont 50 or 60 m. from the coast, the country begins to be covered with vast forests. The lowlands are in great part uncleared, and covered with underwood. The cultivated lands are chiefly given up to the growth of sugar-cane, coffee, cocos, and spices. The sugar-cane was introduced by the earliest colonists; it is grown only on the low lands. Cotton, cocoa, annotto, and vanilla are indigenous. Indigo and tobacco (both of inferior quality), manioc, rice, &c., are grown.



Fig. 1211 .- VANILLA PLANIFOLIA.

Fig. 1211.—VANILLA PLANIFOLIA.

—Mining. The first gold "placer" was opened in 1819, but mining did not grow active until after 1876, when the yield of gold became about 58,000 oz, per year. At present the annual gold export is about 60,000 oz,; but probably half as much more is smuggled out of the country. The other exports are coors and arnotto, about 750,000 lbs. annually of each.—Gost. French G. contains two districts—Cayenne and Sinnamary. The administration is vested in a governor, assisted by a privy council and a colonial council. Cayenne, the seat of govt., is the only town worth notice. Slavery was abolished in this colony in 1848, and in 1851 the French govt. made it their chief penal settlement. Pop. (1897) abt. 33,500. Hist. French G. was colonized early in the 17th cent. Some French adventurers first extited at Cayenne in 1804; and with only a few short interruptions from the Dutch and English, the French held that station and the rest of the colony till 1809; it was then taken possession of by the English and Portuguese, and held by the latter till 1816, when, in pursuance of the Treaty of Paris, it was restored to France. See CAYENNE.

Guiamaeco, (phe-a-malko,) a group of islands in the Pacific Ocean, off the coast of Patagonia.

are also imported from the U. States, to which the exports are syrup and rum. The gold-diggings of Surinam are attracting great attention since 1875, when a rich anriferous district was found among the Marowijne mountains. Government, &c. The government of Multerland, Francisco, (powerche-ar-diem.) and its vested in a governor-general and a high-council. Cap. Paramaribo. Pop. 50,341, exclusive of Indians and Marowins. The latter, living in the interior, are the descendants of runaway negroes, and were very troublesome during the past cent.; they have now, however, adopted comparatively settled habits, and receive annual presents of arms, &c., from the Dutch govt., the territory they occupy forning a kind of military frontier to the colony.

Guilbarra, (ghe-borra,) a river of Ireland, enters the Atlantic Ocean on the N.W. coast of Donegal.

Guilcardimi, Francisco, (powerche-ar-dim.) and Italian historian, s. at Florence, in 1482. He was bred to the law and appointed professor of jurisprudence in his native city. Politics, however, occupied the rest of his life. In the was necessary of the Consistory. In 1512 he was received with great honor by the countrymen; and Leo X. constituted him advocate of the Consistory. In 1518 he was made governor of the Consistory. In 1518 he was made governor of Modena and Regio, and next of Parna, where he drove out the French, and confirmed the inhabitants in their obedience. He was afterwards respondent to the colony.

Guilcardimi, Francisco, (powerche-ar-dim.) and italian historian, s. at Folician, batterium, particular development of the Consistory of the Paramarion of the Paramarion of the Paramarion of the Paramarion of the Consistory. In 1512 he was sent ambassador, on the part of the rest of his life. In the was and appointed professor of jurisprudence in his native city. Politics, however, occupied to the sum and proved the was and appointed professor of jurisprudence in his native city. Politics, however, occupied to the sum and proved the was and appointed professor of j where he assisted at the coronation of Charles V. Guicciardini took a leading part in the political changes at Florence, which led to the restoration of the desputism of the Medici; was a member of the commission of Twelve, and secured the appointment of Cosmo I. in 1537. After a life of great activity, he retired to his villa, and began his great work on the History of Raly during my Own Time, which he had nearly completed at the time of his death, in 1540. He was a man of great gravity of temper and demeanor, and displayed much political segacity and love of justice. He is the greatest of the Italian historians, and writes with the immense advantage of having been a principal actor in the scenes he describes.

Guidable, (gid'abl.) a. Susceptible of being guided. Guidable, (gid'abl.) a. The reward given to a guide for services rendered. (a.) — Guidance; conduct; direction. Guid'ance.

Guid'ance.

Act of guiding; direction; govern-Guid'ance, n. ment; a leading.

ment; a leading.
"A prince coghin to be under the guidence of faction." Swift.
Guide, (gid.) v. a. [Fr. guider; It. guidere; Sp. guider, akin to Ger. weisen, to show, to direct, to lead.] To lead or direct in a path or way; to conduct in a course or direction; to pilot; as, to guide a traveller.

"Law guides the planets in their course."—S. Regere.
—To direct; to order; to influence; to give direction; to instruct and control; to regulate and manage; to superintend.

intend.
"Nothing but the interest of this world guides men

-n. [Fr.] A person who leads, instructs, or directs another in his way, path, or course; a conductor; a pilot. — One who directs or influences another in his conduct or course in life; a regulator; a director; an adviser.

or course in life; a regulator; a director; an adviser.

"Thou wert my guide, philosopher, and friend."—Pope.
(Mus.) The leading part in a canon or fugue.

Guide'-barn, Guide'-blocks, n.p. (Mach.) Pieces
of metal with parallel sides, fitted on the ends of the
cross-head of a steam-engine, to slide in grooves in the
side-frames, and keep the motion of the piston-rod in a
direct life.

direct line.
Guide/less, a. Without a guide; as, a "guideless king-Dryden.

Guide Jess, a. Without a guide; as, a "guideless kingdom."—Drydes.
Guide jesst, s. A finger-post at the corner-fork of a cross road, to guide travellers on their right way.
Guide d'Arresses, (gê-do-da-rt'se,) or Aretimo,
(Guido) was a abt 965. He was brought up in a monastery of the Benedictine order, where he applied himself to the study of music, and being dissatisfied with the system of notation then in use, devised a new one.
He had the honor of explaining his invention to the pope, John XIX. He introduced the use of the lines and spaces, and of the syllables ut, re, ssi, fa, sol, la, si, and left several works on his art.
Guidom, (gêdon.) s. [Fr.] (Mil.) The standard borne by regiments of light cavairy; it is broad at one end, nearly pointed at the other, and usually made of silk.
Gui'do Be'mi, usually called Guido, a celebrated Italian painter, z. near Bologna, 1575. He was first a pupil of benis Calvart, afterwards of the Caracci, and secompanied Annibale Caracci to Rome, where he studied the works of Rafaelle and Caravaggio. After 20 years' residence at Rome he settled, about 1622, at Bologna, obtained full employment at high prices, and founded a school. He painted first in the manner of Caravaggio, the bold naturalist, but afterwards adopted a style remarkable for its softness and grace, and ultimately its sentimentality. He indulged in gambling, and though he had long a large income, he died in debt. He painted a large number of inferior pictures for dealers for mere bread. His Phazbus and the Hours preceded by Aurora, in the Roepiglioso Palace, is by some considered his finesi performance. Among his other works are the Cruc/firing of St. Prier, a magnificent work, in the Vatican; Coronation of the Virgin, at Bologna; the Eco Homo, (Fig. 901,) in the Dresden Gallery; Assumption of the Virgin, at Munich; and the famous portrait of Beatrice Cruci, (Fig. 549,) one of the most interesting paintings in Rome. He painted numerous Magdalens. D. at Bologna, 1642.
Guienme, (ghè-d-v') an ancient prov. of France

painted numerous Magdalens. D. at Bologna, 1642.

Guiemne. (ghi-en',) an ancient prov. of France, comprehending the territory now formed by the depts. of Gironde, Lot, Dordogne, Aveyron, and portions of Tarnet-Garonne, and Lot-et-Garonne, and Loomprising with Gascony what was originally the country of Aquitaine, of which name G. is a corruption. G. passed into the possession of the English in 1152. The French seized it in 1294, and it was frequently contested until it came into the possession of France in 1453.

Guijmr, or Guixar, (ghi-har',) a lake of Central America, in San Salvador, receives the Mitlan, and discharges its surplus waters into the Pacific by the Lempa River. It is abt. 60 m. in circumference, and lass a large island in the middle containing the ruins of an

pa River. It is abt. 60 m. in circumference, and has a large island in the middle containing the ruins of an

Guild, (gild,) n. [A. S. geld, gield, gild, or gyld, from

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ching towards the support and charge of the company. A society or body of individuals associated together for carrying on commerce, or some particular trade or business. There existed at itomevarious fraternities of tradesmen, which bore a considerable resemblance to our modern G, and were permitted to regulate their affairs by their own laws; but it is usual to trace the origin of G. to the Middle Ages. Mechanical industry would never have fourished under the founds system, had it not been for the unions formed among the workmen and merchants themselves. When the advantages of these associations became known and felt, they rapidly increased, and in the struggie of the company.

Guil'ford, in Nichigan and Minnesota. See GILFORD.

Guil'ford, in Missouri, a post-village of Nodaway co., abt. 30 m. N. U. Guil'ford, in N. Curotina, a N. W. central co.; area, abt. 600 sq. m. Rivers. Deep and Haw rivers, besides numerous smaller streams. Surface, undulating; soil, fettle. Cap. Greenaborough.

Guil'ford, in Nichigan and Minnesota. See GILFORD.

Guil'ford, in Missouri, a post-village of Nodaway co., abt. 600 sq. m. Rivers. Deep and Haw rivers, besides numerous smaller streams. Surface, undulating; soil, fettle. Cap. Greenaborough.

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Guil'ford, in Nichigan and Minnesota. See GILFORD, abt. 20 m. N. U. Carolina, a N. W. central co.; area, abt. 600 sq. m. Rivers. Deep and Haw rivers, besides numerous smaller streams. Surface, undulating; soil, fettle. Cap. Greenaborough.

Guil'ford, in Nichigan and Minnesota. their own law; but it is usual to trace the origin of the Middle Ages. Mechanical industry would never have flourished under the feudal system, had it not been for the unions formed among the workmen and merchants themselves. When the advantages of these associations became known and felt, they rapidly increased, and in the struggle between the citizens and nobility, the principal resistance against the latter was made by the G. or corporations. As soon as the citizens acquired an influence in the administration, the guilds became the basis of the municipal constitutions, and every one who wished to participate in the municipal government was obliged to become a member of a G. Hence we so often find distinguished individuals belonging to a class of mechanics of whose occupation they probably did not know anything. G. introduced the democratic element into society, and in their progress became the bulwarks of the citisen's liberty, and the depositaries of much political power. By the close of the 12th cent, merchants' G. were general throughout the cities of Europe. The Drapers' Company of Hamburg dates from 1153, and that of the Shoemakers of Magdeburg from 1157. With the increase of their wealth and strength, the G. either parchased or extorted from their ruiers privileges, which, once obtained, they were careful never to give up. By the 13th cent, they had acquired considerable power, and in two successive ages they counterbalanced the power of the nobles. By degrees, they themselves grew into intolerable aristocracies, especially in Germany, where their exactions had to be curbed by the laws of the empire. G. were abolished in Prussia in 1810; but the want of such associations having since been felt, laws were enacted in 1840 to favor their re-establishment. In France, they were suppressed in 1776, but soon re-established, and not finally abolished till 1791. In England and Scotland, the exclusive privileges of the guildry companies have now been abolished. France, they were suppressed in 1770, but soon re-estab-lished, and not finally abolished till 1791. In England and Scotland, the exclusive privileges of the guildry companies have now been abolished.

Smil'der, n. [Du. and Ger. guiden.] A Dutch silver coin, whose value is a little more than 40 cents;— writ-

ten also *gijder.* Guil'derland, in *New York*, a post-town of Albany

Pop. (1897) about 3,750.

Guil'derland, in New York, a post-office of Albany co.
Guil'derland Centre, in New York, a post-village

of Albany co.

Guildford (glf ford), a town of England, cap. of county
Surrey, on the Wey (to this point navigable for barges),
18 m. S.W. of London. Pop. (1885) 15,550.

Guildfhall, n. An important public building of the
city of London, the seat of the municipal government,
and the place of its civic meetings. Various courts are
held here; and here, every 9th of November, the new
lord mayor for the coming year gives a grand public
dinner, at which her Majesty's ministers and the great
law-officers of the Crown are invariably present. This dinner, at which her Majesty's ministers and the great law-officers of the Crown are invariably present. This building was commenced in 1411, by contributions of several companies called guidds, aided by liberal donations from many private individuals. Of the original G. little now remains but the stone and mortar of the walls, it having suffered severely by the great fire of 1666. It was patched up by Wren, and again in the last century by Dance, who, in 1789, erected the present intensely barbarous front.

ourbarous iron. Guild'hall, in Vermoni, a post-village and township, cap. of Essex co., on the Connecticut River, abt. 60 m. N.E. of Montpelier. Guild'hall Falls, in Vermoni, a village of Guildhall

township, Essex co.

Guile, (gli,) n. (O. Fr. guille; allied to wile, q. v.) Wile; subtlety; craft; cunning; artifice; decait; duplicity;—commonly in a bad sense.

"Deep, hollow, treacherous, and full of guille."-Shake v. a. To cloak or conceal with craftiness or artifice.

To cajole; to delude; to deceive.

enile/ful, a. Full of gulle; cunning; crafty; artful;
wily; deceitful; insidious; subtle; fraudulent; treach-

wily; deceitful; insidious; subtle; fraudulent; treacherous.

"By guileful fair words peace may be obtained."—Shaks.

Guile fully, adv. Artfully; insidiously; treacherously.

Guilefullness, n. Quality of being guileful; deceit; secret treachery; tricky cunning.

Guilefless, a. Free from guile or deceit; frank; sincere; open: honest; as, a guileless heart.

Guileflessly, adv. In a guileless manner.

Guileflessnaess, n. Quality of being guileles; openness; simplicity; freedom from deceit or cunning.

Guilfley, in Oklakoma, a post-office of Kay co.

Guilford, in Connectical, a post-office of Kay co.

Guilford, in Connectical, a post-town and township of New Haven co., on Long Island Sound, about 16 m. E. by S. of New Haven. It contains the birthplace of Fitz-Greene Halleck, our eminent American poet. Pop. (1897) about 2,800.

about 2,800.

Guilford, in Florida, a post-office of Bradford co.

Guilford, in Illinois, a post-township of Jo Daviess co.

—A township of Winnebago co.

Guilford, in Indiana, a post-village of Dearborn co., between Indianapolis and Lawrenceburg.

—A township of Hendricks co.

Guilford, in Iosea, a township of Monroe co.

Guilford, in Iosea, a post-village of Wilson co., on the Mo. Pac. R. R., 7 m. N.E. of Fredolia.

Guilford, in Marse, a post-town of Piscataquis co. Pop. (1897) about 1,100.

Guilford, in Maryland, a post-office of Lioward co.

—A post-township of Medina co. **Guil'ford,** in *Penneylognia*, a township of Franklin

Guil'ford, in Fermont, a post-village and township of Windham county, about 130 miles south of Mont-

Windham county, about 130 miles south of Montpolier.

Guil'ford, in Virginia, a post-office of Accomac co.

Guil'ford Centre, in New York, a post-village of Chenango co., abt. 100 m. W. by S. of Albany.

Guil'ford Centre, in Vermont, a post-village of Windham co., abt. 120 m. S. of Montpeller.

Guil'ford Court-House, in N. Carolina, a village of Guilford co., about 5 m. from Greensborough, memorable for a battle fought, March 15, 1781, between the Americans under Gen. Greene, and the British under Lord Cornwallis. The British were about 2,400 strong, and consisted chiefly of veteran soldiers. The American force numbered about 4,400, of which only about 1,600 were regular troops; the rest, mainly composed of raw militia, fied at the first onset, and Greene, after an heroic resistance, ordered a retreat. The loss of the British was over 600 men, including many officers; that of the Americana, 1,128 killed, wounded, and missing. Though victorious, Cornwallis was so much crippled that he retreated on the 18th, with the Americans in hot pursuit; and Mr. Fox is said to have exclaimed, when the battle was mentioned in the English House of Commons, that "another such victory would ruin the British army."

Guil'ford Station, in Virginia, a post-village of London on the Lift in Res.

"another such victory would ruin the British army."

Guil'ford Station, in Virginia, a post-village of Loudon co., abt. 11 m. S.E. of Leesburg.

Guillemet', n. [Fr., from the name of the inventor.] (Typoy.) A term sometimes applied to quotation-marks or points; thus ('...')("...").

Guillemet, (gil-lowo', m. (Zodl.) See Urins.

Guillewat, n. [From Fr. guiller, to ferment.] A vat for fermenting liquors.

Guilleche, (gil-low',) n. [From the inventor Guillot.] (Arch.) An ornament composed of two (Fig. 1212) or more carved fillets, which by repetition form a continued series. series.



Guillotine, (gil-lo-ten') a. An instrument used in France, for infliction of capital punishment by decapitation; so called from Joseph Iguace Guillotin, by whom it was introduced into that country. This person was born at Saintes, and became a physician at Paris, where he obtained a certain celebrity, in the early period of the Revolution, by the strong part which he took in favor of the rights of the Tierr Etat. He was in confavor of the rights of the Tiers-Etat. He was in con-sequence elected a deputy to the National Assembly. When that body was occupied in its long discussions relative to the reform of the penal code, in 1790, Guillo-tin proposed the adoption of decapitation, up to that time used only for nobles, as the only method of capital time used only for nobles, as the only method of capital punishment. From sentiments of humanity, he recom-mended the employment of a machine which had been long known in Italy under the name of mannaja, and in Scotland under the name of maiden. The Assembly approved the idea, and the machine was adopted, to which the Parisians have given the name of Guillotine, and of which Guillotin is most erroneously supposed to have been the inventor. It consists of two parishs and of which Guillotin is most erroneously supposed to have been the inventor. It consists of two upright pieces of wood, fixed in a horizontal frame; a sharp blade of steel moves up and down, by means of a pulley in grooves in the two uprights; the edge is oblique, instead of horizontal. The criminal is laid on his face, his neck immediately under the blade, which severs it at a blow from his body. It is equally a vulgar error that Guillotin perished by the instrument which bears his name. He was imprisoned during the Reign of Terror, but released at the revolution of July, 1794, and p. in 1814.

Guillotine', v. a. To decapitate by means of the

guillotine.

Guilt. n. [A. 8. gyll. from gyldan, to pay, to restore.]

The fine or mulct paid for an offence; hence also, by implication, the offence itself; as, the guilt of an offence, the quilt of poverty.

"I know not, I ask not if guilt 's in that heart,
I but know that I love thee, whatever thou art."

That state of a moral agent which results from his actual commission of a crime or offence, knowing it to be a violation of law; criminality in a civil or political

Guil'tily, adv. Without innocence; without clears of conscience.

"Bloody and guilty, guiltily awake." -Shake. Guilt'less, a. Free from crime or offence: innocent.
Guilt'lessiy, adv. Without guilt; innocently.
Guilt'lessness, n. The quality or state of being

Guil'ty, a. [A.S. gyltig.] Justly charged with an offence; not innocent.

(Orim. Law.) See VERDICT.

(Orim. Law.) See VERDICT.

Guinnaraems, (pe-mar-ang'.) an inland town of Portagal, on the Ave, prov. of Minho, 25 m. N.E. of Oporto.

Manuf. Cutlery, table-linen, and toys. Psp. 7,100.

Guinnaraems, (ph-mar-d'ens.) a town of Brazil, on the Bay of Cuma, abt. 45 m. N.W. of Maranhão; psp. abt. 2,500. — A village of Brazil, prov. Matto-Grosso, aix.

40 m. N.E. of Cuyabe.

Guinnae. (chis'sys. m. 180 called from its being street.

abt. 2,500.—A village of Brazil, prov. Matto-Grosso, a.t. 40 m. N.E. of Cuyaba.

Guines, (ghin'sy,) s. [So called from its being streck out of African gold brought from the coast of Gusaca], gold coin of Great Britain, of the value of 2Ls sterling, or \$4.88. It was first coined in the reign of James I, and was superseded by the sovereign in 1817. Though the coin has ceased to be current, the name is still used to designate a sum of tweety-one shillings; and it is customary to reckon professional fees, voluntary subscriptions, \$c., in guiness, which is supposed to raise then above mere pounds, shillings, and pence transactions.

Guine'es, a name of uncertain origin, applied by European geographers to designate a portion of the W. cost of Africa. The older geographers apply it to the lise of coast from the mouth of the Gambia to that of the Quorra; whereas the more modern authors extend it limits from Cape Verga, Lat. 10° 20° N., to the mouth of Nourse River, Lat. 11° S., and all the district S of Cape Lopez, Lat. 5° S., namely, Congo, Angolo, and Bragwis, by the name of S. Guines; while under N. Guines, or Guinea Proper, are comprehended Sierra Leone, the Gran Coast (Inchain). by the name of 8. Guines; while under N. Guines, or Guines Proper, are comprehended Sierra Leon, the Grain Coast (including Liberia), the Peory Chat, the Gold Coast (including Ashanter), the Slave Coast (including Debancy), Berian, Blafra, &c. The description of this extensive line of coast will be found chiefly under the heads of the countries above printed in Italica. Guin'en-copus, a. (Bot.) See Holcus. Guin'en-copus, a. (Bot.) See Holcus. Guin'en-fowl, Guina-Han, or Pintado, a. (Zod.) A genus of gallinaceous birds, the genus Numda of Linesus, family Phanianide, natives of Africa and its adjacent islands; their manners are similar to those of the domestic poultry, and their food the same. The common

genus of gailmaceous orica, the genus Nusarad of Lin-menus, family Phasianide, natives of Africa and its adja-cent islands; their manners are similar to those of the domestic poultry, and their food the same. The common G.-F., Nusaida meleagris (Fig. 1213), is bigger than a large cock; the head is bare of feathers, and covered with a naked bluish skin; on the top is a callous cosi-cal protuberance; and on each side of the upper mandi-ble, at the base, hangs a loose wattle, which in the female is red, and in the male bluish; the upper part of the neck is almost naked, being very thinly furnished with a few straggling hairy feathers; the skin is of a bluish ash; the lower part of the neck is covered with feathers of a purple hue; but the general color of the plumage is dark bluish-gray, sprinkled with round white spots of different sizes, over the whole of the feathers, the breast only excepted, which is of a uniform gray blue; the greater quills are white; and the rest are similar to the upper parts of the plumage, spotted and longitudi-



Fig. 1213. - GUINEA-POWL, OF PINTADO. (M

(Mustide moleogrie.)

mally barred with white. Its wings are short; and the tail pendulous, or pointing downwards. This bird is now common in our poultry yards, but from the circumstance of the young ones being difficult to rear, they are not bred in numbers at all equal to those of the domestic poultry. The female lays many eggs in a season, which she frequently secretes till she has produced her young brood. The egg is smaller than that of the cummon hen, and of a rounder shape; in color reddish-white, obscurely freckled with a darker color; and is delicious eating. The G.-F. is a restless and clamorous bird; its voice, harsh and unpleasant, is compared by Latham to a door turning upon its rusty hinges, or to an ungressed axie-tree. During the night it perches on high places, and if disturbed, alarms everything within hearing by its uncessing cry. It scrapes in the ground like the hen, and delights in rolling in the dust to free itself from insects. In a wild state these birds associate in flocks. insects. In a wild state these birds associate in flocks. insects. In a wild state these birds associate in flocks, giving the preference to marshy places, where they subsist almost wholly on insects, worms, and seeds. They formed a part of the Roman benquets; and they are greatly esteemed by many persons, who consider their flavor to resemble that of the pheasant.

Guin'em, (Guilf of.) formed by the Atlantic on the coast of New Guinea, between Lat. 6° 20' and 1° 8, La. 7° 30' W. and 10° E.

Guinney, (New ), See Paria.

7° 30' W. and 10° E.

Guinea. (New.) See Papua.

Guinea. (New.) See Papua.

Guinea. (New.) See Papua.

Guinea. (New.) See Papua.

Coolai, is indigenous to S. America, but is now cond domesticated in all parts of the world. This little rotest



animal has ears large and broad, the upper lip divided in two, the hair or fur erect, and somewhat resembling that of a pig (whence its name). The color of this small rodent animal is generally white, with black spots, although this is somewhat variegated by orange blotches on the coat. It has five toes on the fore legs, and three on the hind ones, and is utterly destitute of any caudal appendage. In their habits G. P. are extremely neat, as they are constantly seen smoothing and arranging the hair which forms the outer tegument of their coat. Their general voice is a grunt or feeble squeal, which renders them even more analogous to the pig, to which they are so often likened. The G. P. in its wild state inhabits dry sandy places, and its flesh is esteemed a great dainty by the natives of S. America. Guine'ea-wopenn, (2001.) See Flakkla. Guines, (2002/eas), a town of Cuba, W. Indies, near Bros Bay, abt. 40 m. S.S.E. of Havana.

Broa Bay, abt. 40 m. 8.8 K. of Havana.

Guinggamp, (giciqong), a town of France, dept. Côtesdu-Nord, on the Trieux; pop. 6,748.

Guipure, (ghēpare,) n. A kind of gimp.

—An imitation of ancient lace, less expensive, as durable, and equally beautiful with the article which it represents.

Guipuscoa, Guipuscoa, (giēposcoa), (pie)

Basque Provinces. 4. v.

smallest, but the most densely peopled of the BASQUE PROVINCES, q. v. Gmirim, (ghee'rē-a.) a sea-port town of Venesuela, on the Gulf of Paria. abt. 135 m. E. of Cumana. Gmiscard, Robert, (géér'kar.) duke of Apulia, one of the most celebrated of the Norman adventurers in Italy, Guiscared, Rossar, (géés'kar.) duke of Apulia, one of the most celebrated of the Norman adventurers in Italy, joined his brothers there about 1053, and in the following year, with his brother Humphrey, defeated and took prisoner Pope Leo IX. at the battle of Civitelia. At the head of a small band he penetrated into Calabria, his aim pillage, his means force or knavery. On the death of Humphrey, in 1057, Robert was accepted as the leader of his countrymen, completed the conquest of Apulia and Otalabria. He was joined in 1060 by his younger brother Roger, with whom he quarrelled, but soon made peace, Calabria being divided between them. He made himself master of Tarentum and Otranto, and took Bari in 1071 after a siege of four years. He assisted Roger at the siege of Palermo, of which he retained the soversignty, giving the rest of Sicily to his brother. In 1074 he was excommunicated by Pope Gregory VII., and again four years later; but in 1080 he was reconciled and did homage to the pope for his duchies. In the following year he engaged in war with the emperor of the East, and at the same time his subjects revolted. Hereturned and quickly suppressed the revolt. In 1084 Gregory VII., then besieged in Sant' Angelo by the Emperor Henry IV., called Robert to his aid. The emperor did not wait to encounter him, but Rome was, nevertheless, pillaged and partly burut by the army of Normans and Saracens. He was continuing successfully the war with the Greeks, when he D. at Cephalonia in 1085. Robert, by his first wife, was father of Bohennond, prince of Anticol. One of his daughters was married to Constantine Ducas, son of the Emperor Michael; another to a son of Azzo, marquis of Este; and a third to Raymond II, ount of Barcelona.

stantine Ducas, son of the Emperor Michael; another to a son of Azzo, marquis of Este; and a third to Raymond II, count of Barcelona.

Suise, (gēžs.) The name of an illustrious French family, the founder of which was Claude, son of Rôné II., duke of Lorraine, who obtained letters of naturalization from Louis XII., in 1506, distinguished himself at the battle of Marignano 1515, was created duke of Guise in Picardie by François I. in 1527, and D. 1550. The duke of Guise having married into the royal family, one of his daughters espoused James V. of Scotland, and became the mother of Mary Stuart. His eldest son, François, who



Pig. 1214, - PRANCOIS, DUKE DE GUISE (1550). succeeded to the dukedom, was one of the most remarkable men of the age, and was king of France in all but the name. He was the chief of the Catholic "League," prosed to Con-16 and the Huguenots, and was assassi-ated 1563. The sun and successor of the latter, HENRI

DUEE OF GUISE, B. 1550, inherited the power and ambition of his father, and was one of the chief actors in the massacre of St. Bartholomew. He was assussinated by order of the king, 1885. The brother of François, and uncle of Henri duke of Guise, generally known as the Cardinal of Lorrange and like the other members of his family, an implacable persecutor of the Hugnenots, flourished 1523-1574. Charles, the fourth duke of Guise, eldest son of Henry the third duke, and Catherine of Clèves, became one of the chiefs of the League three years after the death of his father, and was gov. of Provence, 1571-1640. Henri of Lorrange, the fifth duke, who became generalissime of the Neapolitan incurgents in the revolt against Spain, and atterwards graud-chamberlain of France, was B. 1614, and D. 1664. The sixth duke of Guise, known also as Louis Joseph of Lorrange, and prince de Joinville, a military officer under Louis XIV, flourished 1650-1671. The last of this house was a poethomous son of the latter, who D. about four was a poethumous son of the latter, who D. about four cars afterwards.

Guise, (gise,) n. [Fr., allied to A.S. wisa; Ger. weise, a manner.] External appearance; dress; garb; mien.— Practice; custom,
"I have drank wine past my usual guise."

Guis'er, s. A nummer, or person who goes about at Christmas singing the carols appropriate to the season. Guitar, (getar.), n. [Sp. guitarra; Fr. guitare; Lat. cithara.] (Mus.) A stringed instrument somewhat similar to the lute, formerly much esteemed as an acsimilar to the lute, formerly much esteemed as an accompaniment to the human voice, and especially used
in Spain, where it probably originated. The guitar is
of a somewhat oval form, having a neck similar to that
of the violin. The strings—six in number—are stretched
from the head to the lower end, passing over the sounding-hole and bridge. The three first, R, B, and G, are,
like the gut strings of the violin, called the treble; and
the other three, which are of gut or silk, and wound
with silver wire, constitute the bass. All the strings
are tuned by fourths, except the third, which is tuned
one-third below the second. The greatest virtuosi of
the guitar were Guillani, Sor, Zoechl, Stoff, and Horetzsky.

\*\*Butsavis\*\* (ač-te-wžč.). or Santa CRUX DE Mayo. a see-

Chitivis (gë-te-vëë'). or Santa Cruz de Mayo, a see-port town of the Republic of Mexico, about 120 m. S. E. of Guaymas.

Gmit'tard, in Kansas a township of Marshall coup

ty.

'guished, (gëzō,) François Pierre Guillaume, a distinguished French statesman and historian, E. 1787, is the son of an advocate at Nimes, who perished on the scaffold during the Revolution. Gwas educated at Geneva, and at the age of 12 made himself master of the learned languages, German having become to him a second mother-tougue, and English and Italian completely familiar. He left Geneva in 1805, and after a short sojourn in Languedoc, proceeded to Paris, with a view of being called to the bar—an intention which he does not seem to have earnestly prosecuted. In 1809, M. Guizot published his first regular work, an edition of Gerard's French Synonyms, with a dissertation on the language. His Lieus of the French Poets, a translation of Gibbon's "Decline and Fall of the Roman Empire," The State of the Fine Arts in France, Annals of Education, and other works followed. In 1812 he was appointed Professor of Modern History in the Sorbonne. After the fail of Napoleon, the exalted idea of the talents of Guizot which prevailed among the old aristorracy of France made it easy for him to obtain important poets under the twofold restoration of the Bourbons. He was successively Secretary-General of the Ministry of the Interior and that of Justice, and Direc-Guinot, (gë 25,) François Pierre Guillaume, a distin ents of Guizot which prevailed among the old aristoracy of France made it easy for him to obtain important posts under the twofold restoration of the Bourbons. He was successively Secretary-General of the Ministry of the Interior and that of Justice, and Director-tieneral of the Administration for settling claims of indemnity. He belonged to the Liberal school under the restoration, and lost power along with his colleagues, MM. De Cases, Royer-Collard, and Camille de Jourdan, when the assassination of the Duc de Berri, in 1819, turned the scale in favor of the counter-revolutionary party. The severe measures of M. Villele's administration called forth vigorous protests in the form of political pamphlets from Guizot, which created a great sensation at the time, and their author was suspended in 1825 from his profesorship. In his retirement he renewed his studies, and wrote Memoirs relative to the English Revolution; Memoirs relative to the History of the English Revolution; Memoirs relative to the History of the English Revolution; Memoirs relative to the History of the English Revolution; Memoirs relative to the History of the English Revolution; Memoirs relative to the History of the English Revolution; Memoirs relative to the History of the English Revolution; Memoirs relative to the History of the English men of the day, in both politics and literature, and in 1827 he had the misfortune to lose his wife, herself an authoress of reputation. In 1828 the interdict on his lectures was removed by the Martignac ministry, and he delivered the series published since as Course of Modern History, and The History of Civilization in Europe. At the age of 42, M. Guisot was elected a member of the Chamber of Deputies, and took his seat in that assembly in the eventful session of 1830, on which occasion leolined in the celebrated address that provoked Charles X. to issue the famous ordinances of July 25th. Upon the accession of Louis Philippe, M. Guisot was named Minister of the Interior, then the most important post in th

came exceedingly difficult. Both England and France were startled by the ambitious projects of M. Thiers, and it was no easy matter to calm the excited feelings of the French, and to dissipate the suspicions of the English. But the device of "peace at any price" in a great degree succeeded, till the affairs of Tahiti interrupted the friendly relations of the two countries, and the vexed question of the Spanish marriages again excited considerable alarm and distrust. His rule came to an inglorious end in the revolution of Feb., 1848, after he had held the portfolio of Foreign Affairs for more than six years, and he withdraw from active political life. It is only a matter of justice to add, that, whatever may be thought of M. Guizot as a politician, he earned distinction as an author which must long secure eminence to his name. Nor was he less entitled to praise as the originator of an extensive improvement in the literature of his country. After his retirement he wrote two more volumes of his admirable History of the English Revolution, embracing the History of the Commonwealth; as well as Richard Cromwell, and the Dawn of the Restoration, and two semi-political pamphlets, On Democracy in France (1849), and an Impury into the Causes of the Success of the English Revolution (1850). The chief of M. Guizot's works that have been translated into English are, History of the English Revolution (1860). The chief of M. Guizot's works that have been translated into English are History of the English Revolution (1850). The chief of M. Guizot's works that have been translated into English are History of the English Revolution (1850). The chief of M. Guizot's works that have been translated into English are History of the English Revolution (1860); which is a seq.); and Historie de Pauce (1864); Mmorires pour servir he History of Civilization (1846); Corneille und his Times, and Shakspeare and his Times (1862); Essay on the Fine Arts, and Love in Marriage (1864); Mmorires pour servir he History of the Guicowar's dominions.

GULF

Guich, n. [8]. guicho.] A dry water-course; a ravine; a guily.

Guic, v. a. (Her.) To give the red color to.

Guice, v. a. (Her.) To give the red color to.

Guice, v. a. (Her.) To give the red color to.

Guice, v. a. (Her.) The term used to denote the red color.

In engraving, it is marked by perpendicular lines traced from the top of the shield to the bottom. It is supposed to indicate valor, magnanimity, and the like, and is regarded as the most honorable heraldic color.

Guif, n. [Fr. pofe; Gr. kolpos, bosom or bay.] (Geog.) An arm or portion of the sea extending into the land; a bay;— the latter name being more generally applied to deep indentations of the land whose opening towards the ocean is as wide as any part of the inlet, whereas guifs have narrow entrances. Of all guifs, the Guif of Mexico is the most complete and characteristic. (See Maxico, Guir or.) It is the most nearly enclosed, as well as the largest. The Persian guif is large, and very nearly enclosed, lying between Arabia and Persia, and receiving the waters of the Euphrates. The Guif of Siam is much more open.

is much more open.

An abyse; a deep place in the earth.—A whirlpool.—

Any thing insatiable.—Shaks. Gulf Mills, in Pennsylvania, a post-office of Mont-

gomery co.

Guif Stream. (Phys. Geog.) A remarkable current
of the Atlantic Ocean, which comes out of the Guif of
Mexico, between the islands off the coast and the
peninsula of Florida, and thence within the Bahama
bank, parallel to the American coast, until it meets the bank, parallel to the American coast, until it meets the St. George's and Nantucket banks, when its course is deflected eastwards. After passing the southern extremity of the great bank of Newfoundland, it runs in the same direction to about 38° W. longitude, within the parallels of 33° and 43° N. At this point the main stream turns to the S.E. and S. as far as the Azorea, after which it is lost. But although the main stream is thus deflected, tis influence extends much farther. Portions of it reach to Iceland, and wash the shores of the British Islands. its innuence extensis much nature. Fortunes it reach to Iceland, and wash the shores of the British Islands, where tropical fruits have been sometimes landed; and there can be no doubt that the permanent influence of this current has produced the genial climate of Western Europe, as compared with the climate in corresponding latitudes on the W.c. const of the Atlantic, or on either coast of the Pacific. The whole range of the G. S. is estimated at about 3,000 m. in ordinary years. It occupies about 78 days in its progress, the average rate of motion per hour being thus a little more than a mile and a half. The velocity, however, varies greatly, being as much as five m. an hour as it issues from the guif of Florisia, and not more than ten m. per day near the Azores. The temperature varies, but the G. S. is everywhere warmer than the proper temperature of the ocean at that point, as it comes out into the Atlantic, it is from 80° to 80° Fahr., and is only reduced to 84° when it has travell. ... ten degrees latitude. After that, as it crosses the Azores.

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lantic, it cools steadily, but always retains a part of its initial heat, and is constantly warmer than the ocean adjacent. The warm moist air over this current of hot water, when it is crossed by cold currents coming from the icy regions of the N., is at once converted into mist, and thus the course of the stream is in some parts marked by clouds and rain. Parts of the G. S., nearer than the European are symptimes. nurked by clouds and rain. Parts of the G. S., nearer the American coast than the European, are sometimes actually crossed by losberga, proving that the warm current is comparatively superficial, and that a cold current sets at right angles to the direction of the stream, near enough to the surface to govern the course taken by the larger and deeper icebergs.

Guilf-weed, n. See Sanoassum.

Guilf-weed, n. See Sanoassum.

Guilf-y.a. Full of whirlpools or guilfs.

Guilfuch, in Pussayleania, a township of Clearfield co. Pop. (1897) about 1,350.

Guill, v. a. [O. Fr. guiller, to cheat; Dan. kullen, to deceive.] To deceive; to cheat; to mislead by deception; to defraud.

to defraud.

"He soothed the goddess, while he gulled the god." - Dryde

-n. A trick, fraud, or deception. — One easily cheated; a dupe; as, he must be a poor guil.

-[Lat Moryns.] (Zoil) See Lands.

-[Bullet, m. [Fr. gusule: Lat. guin, the throat or swallow.] (Anal.) The continuation of the pharynx, and the connecting isthmus between the mouth and the stomach; in other words, the first portion of the alimentary canal, or (Exopensing a.

other words, the first portion of the alimentary canal, or (Esophagus, qr. Caul' 11ble, a. Essily cheated; readily deceived. Gull Islamed, in Now Fork, an island and light-house, in the Race at the E. entrance to Long Island Sound. It exhibits a fixed light 50 ft. above sea-level, Lat. 41° 12' 18" N., Lon. 72° 6" 45" W. Ower sea-level, Lat. 41° Gull Lake, in Michigan, a post-office of Barry co. Gull'y, n. A gulch, channel, or hollow, worn in the earth by a current of water. — A large knife. — A tramplate: an iron rail.

plate; an iron rail.

pante: an iron rail.

Gully-hole, n. The hole at which the gutters empty
themselves into the common sewer.

Gu'io, n. [Lat., a glutton, from gula, the gullet.] A
genus of carnivora, family Mustelida, the type of which,
G. arcticus or G. luscus, exists in the boreal regions of
the old and new worlds, and is commonly called Glutton. the old and new worlds, and is commonly called clutton. It is about 3 feet long to the root of the tail, and is very powerful, feroclous, and voracious. Its fur, under the name of woler-ine, forms an extensive object of commerce to the Hudson's Bay trappers. The Grison (Gula vittatus) and the Taira (Gula barbatus) are found in South

America.

Guilos ity, n. [Fr. gulosité, from Lat. gulositas, from gula, the throat.] Excessive fondness for the pleasures of the table; greediness; voracity.

Guilp, r. a. [Dut. guilpen, to suck in, allied to Gulr., q. v.] To swallow eagerly, greedily, or in large draughts.—n. A swallow, or as much as is swallowed at once; as, a gulp of physic.

Guily, a. R.-d.: of or pertaining to gules. "The horrid standard of those guly red dragons." — Muon.

Guilless, a. [A.S. gogge, palate: Ger. gaussen.] (Anct.)

"The horrid standard of those guly red dragons." — Milton.
Gumm, n. [A.S. goma, palate: Ger. gaumen.] (Anat.)
The cellular and elastic fieshy substance which covers
the alveolar portions of the upper and lower jaw, and
envelops the neck of the teeth.

[A.S. goma; Fr. grmme; Lat. gummi.] (Chem.) A vegetable product, which forms a slimy solution with water,
but is insoluble in alcohol, ether, and oils. There are
six varieties of gum — gum-urabic, gum Sengal, gum of
the cherry and other stone-fruit trees, gum tragucanth,
gum of Bussora, and the gum of sexis and roots. All
these gums, except the last, flow spontaneously from the
branches and trunks of their trees, and sometimes from
the fruits in the form of a mucilage, which dries and these gams, except the last, now spontaneously from the branches and trunks of their trees, and sometimes from the fruits in the form of a mucilage, which dries and hardens in the air; the gum of seeds and roots, however, requires to be extracted by boiling water. A number of very different substances are confounded in commerce under the name of gum. Thus, gwm elemi, and gum copal, which are true resins; gum ammoniacum, which is a gum resin; and gum elastic (caoutchouc), which differs from both, are all called gums. Gum-arabic is obtained from the Acacia Arabica. Or Acacia vera, which grow upon the banks of the Nile and in Arabia. The commercial gum of this kind consists of a number of small pieces rounded on one side and hollow on the other. It may be bleached by exposure to the atmosphere and sunlight at a temperature of 212°. Its specific gravity is 1-355. It is used in medicine, and also in order to give lustre to crapes and other silk fabrics. Gum Senegal is collected from the Acacia Senegal by the negroes during the month of November. It is specific gravity is 1-356, and its chemical properties and uses are similar to those of gum-arabic. It is largely used in calico-printing. Gum transcant called also Ceraac gravity is 1-436, and its chemical properties and uses are similar to those of gum-arable. It is largely used in calico-printing. Gum tragacanth, called also Cerasine, Cerasium, and Mucilage, is gathered in Crete and the neighboring islands, from the Astralagus tragacantha, about the end of June. It is white or reddish in color, almost opaque, and has the appearance of twisted ribands. It is difficult to pulverize it without heating the mortar. When plunged into water, it partially dissolves, awells, and forms a very thick mucilage. Gum tragacanth has a specific gravity of 1-384, and is used in calico-printing and by shoemskers. Most of the substances called gums are resine or gum-resins. See Reals.

calico-printing and by shoemakers. Most of the substances called gums are resins or gum-resins. See RESIN.

Gums, v. a. To unite by a viscous substance.

—v. n. To exude or form gum.

Gumblis meu., a town of E Prussia, on the Pissa, 63 m. E. of Köuigsberg. Manuf. Cloths, hats, brandies, beer, and leather. Pop. 800.

Gums bo., Gomeo., n. A name applied in Louisians to the plant Okro, of the genus Hiriscus, q. v., and also to

a soup of which the pod of that plant is the principal ingredient.

ingredient.

Jum'-bell, n. (Surg.) A small abscess, which forms
in the cellular substance of the gum. At first it is sufficient simply to protect it against cold; but if it continues to advance, the process of ripening may be hastened by hot applications to the cheek next to the swelling. If the pain be excessive, a leech applied to the
part will usually afford relief. As soon as the presence
of matter can be ascertained, it should be let out by a
free heedton. free incision.

Gum'borough, in Delaware, a P. O. of Sussex co. Gum-cin'tus, n. (Bot.) A species of rock-rose, Cis tus ladaniferus.

tus ladamiferus.

Gum'ma, n. [See Gun.] (Med.) A soft tumor, so named from the likeness of the contents to a gum.

Gumm'ma, n. [See Gun.] (Med.) A soft tumor, so named from the likeness of the contents to a gum.

Gumm'mairems, n. Viscousness; accumulation of gum.

Gumm'mairems, n. Viscousness; accumulation of gum.

Gumm'maire, n. (Min.) A mineral of gressy lustre, reddish color, and resembling gum. Sp. gr. 39-4-20. Ompp.

Oxide of uranium, 72; oxide of manganese, 0.05; lime, 6-00; allica, 4-26; phosphoric acid, 2-30; water, 14-75, and a trace of fluorine and arsenic.

Gummmos'ity, n. [Fr. gommosili; Lat. gummosilas.]

Viscidity; an adhesive quality.

Gum'mous, a. [Fr. gommeux.] Like gum; pertaining to or composed of gum.

Gumm'my, a. Consisting of gum; of the nature of gum.

Ing to or composed of gum.

Gumm'my, a. Conelsting of gum; of the nature of gum.

Productive of gum.— Overgrown, or covered with gum.

Gump, n. [Dan. gump, the buttocks.] An imbecile; a
dolt; a dunce; a silly person.

Gumption, (gum'shon.) n. [A.8. geomian, to observe.]

Capacity; ability; shrewdness; address. (Colloq.)

(Painting.) The art of preparing colors.—MAGILP, q.v.

Gum'-rash, n. (Med.) The Red-Gum, q.v.

Gum'-tree, n. (But.) See Eugaltytus.

Gum'-tree, n. (But.) See Eugaltytus.

Gum, n. [W. gum; Ir. gunn; Scot. gyn, an abbreviation of the Fr. engin, a military engine, which word gyn became corrupted into gan.] An instrument consisting of a barrel or tube, of iron or other metal, from which balls, shot, or other missiles are discharged by the explosive force of gunpowder. The largest species of guns are called canson; the smaller species are called rifes, musicis, carbines, foosling-pices, &c. The manufacture and construction of cannon have been fully described in the articles on Abrillers and Cannon, and the rified cannon will be more especially examined under Riples. Orbinarce. We give a description of the fowling-pices, referring to Riple, for the latest improvements in the manufacture of smaller military firearms. For sporting proposes smooth-bored shot-guns and grooved rifes are employed. Buth are nearly always double-barrelled, and of late years the old mussle-loaders have been almost entirely supplanted by the many breech-loading systems recently invented, which enables the sportaman to reload with greatly increased rapidity and uniformity, the latter quality being specially important in rife shooting. Mr. Lefancheax is entitled to the credit of inventing the modern sporting breech-loader; but the ingenuity of gunnakers has since devised an immense variety of actions, and every day sees progress made in strength and simplicity. The latest guns, however, leave little your for improvement in respect to the action. The hammers are abolished altogether, the striker being a needle in the interior, which is driven against the cap of a central-fire cartridge by a spring when the trigger is pressed; a lever on top is pushed aside by the thumb, liberating the catch which holds striker being a needle in the interior, which is universe, against the cap of a central-fire cartridge by a spring when the trigger is pressed; a lever on top is pushed aside by the thumb, liberating the catch which holds the barrels against the false breech; the barrels then drop from the hinge, and are open for loading. On raising the barrels, the action snaps to, and holds them fast; the dropping of the barrels causes an extractor to withdraw the empty cartridge cases. A key at the side regulates the cocking and safety of the lock and striker. The manufacture of sporting rifles does not greatly differ from that of shot-guns. Great strength and weight of barrel are necessary to resist the pressure of the charge, withstand the wedging action of the bullet and deaden the recoil. See Greener's Gun and its Derelopment (1885), and Modern Shot Guns (1888).

Gun'boares, n. To practise fowling, or hunting small game; as, to go gunning.

Gun'boares, n. (Naral.) A term applied to a small vessel carrying not more than four guns, most frequently only one, and of trifting draught of water. Steam gun-



Fig. 1215 .- GUNBOAT USED ON THE MISSISSIPPI.

boats, especially when iron-plated, are most powerful auxiliaries to a fleet; their light draught enables them

to appreach the shore or ascend rivers; their heavy guns tell with deadly effect from their near positions; while they themselves, from their diminutive size, can scarcely be hit.— Gunboats of a peculiar construction (Fig. 1216) were used on the Mississippi during the late war. Bomb-vesseld differ from gunboats in being of greater beam, or width, to withstand the vertical recoil of the mortars which they carry. They are rarely propelled by steam. See also Section II.

Gum'-cartiage, n. A wheeled carriage for cannon. Gum'-cattom, n. See Explosives; Pyroxylins.

Gum'-deck, n. (Naul.) A lower deck ou board a mapnoi-war, where the guns are mounted and exercised.

Gunduck, (goon-dodd'.) a river of Hindostan, supposed to rise beyond the Himalaya, in Lat. 29° 40' N.,
Lon. 83° 14' E., and which, after a course of abt. 400 m.,
joins the Ganges opposite Patna.

Gunffire, n. (Mil.) The last beat of the reveille or
tattoo, at the close of which a gun is fired in all fortresses and other military stations.

Gun Mey, a narrow coral reef on the W. edge of the
Great Bahama Bank. At a distance of 250 yards from
its 8, point there is a light-house, exhibiting a light
which revolves once a minute. It is 80 ft. above smlevel, in Lat. 25° 34' 34" N., Lon. 79° 18' 24" W.

Gum Marsh, in Michigan, a post-office of Allegan co.
Gun Marsh, in Michigan, a post-office of Allegan co.
Gun Marsh, in Michigan, a post-office of Allegan co.
Gun mage, n. The number of guns of the armament
of a vessel.

Gunfinel, n. Bame as Guwall, q. v.
(2061.) A genus of fishes (Gumellus), family Gobidz.

of the to 100 pounds of copper.

Gun'mage, n. The number of guns of the armament of a vessel.

Gun'mel, n. Same as Gunwall, q.e.

(Zoll.) A genus of fishes (Gunnellus), family Gobide. They are distinguished by a much-compressed body, spinous dorsal rays, and ventrals often reduced to a single spine. The American Butter-fish, G. mucrosselus of the Atlantic, is from 4 to 12 inches long, grayish, with a series of dusky oval rings along the sides.

Gun'mer, n. (Mil.) One who works a gun either os land or at sea;—a term which, in the artillery, corresponds to private in the line.

(Naval.) A warrant officer, under whose immediate charge are the ordnance and ammunition of the vessel. (Summery, (pas'mer.), the science which treats of the theory of the flight and motion of projectiles discharged from cannon and smaller arms, and teaches the method of employing these weapons in the most effectual nanner, for the purpose of attack and defence. The earliest treatise on the path described by a projectile during its flight, seems to be one written by a mathematician named Surtales, about the middle of the 16th century. Galileo demonstrated that a shot fired from a gun would trace a parabolic curve in its passage through the sir, if the resistance of the air had no influence, as it has, in materially altering the form of the path it describes. It will be readily understood, that if the resistance of the air and the attraction of gravitation could be removed, or, in other words, if a shot could be fired in vacuo, it would go on forever in a line corresponding to that of the axis of the plece, produced indefinitely, with the same initial velocity, or the velocity which it possessed when it left the cannon's mouth. But supposing the effect produced by the infinence of the air to be neglected, and gravity alone to act on the ball, it is found the the state of the content of the content of the state of the content of the conte rucuo, it would go on forever in a line corresponding to that of the axis of the piece, produced indefinitely, with the same initial velocity, or the velocity which it poseesed when it left the cannon's mouth. But supposing the effect produced by the influence of the air to be neglected, and gravity alone to act on the ball, it is found that the action of gravitation constantly acting on the projectile at every point of its flight, in a time which may be considered as perpendicular to the horizon, tends to draw it out of the straight line, which it would have described if the force of gravity did not exist, and eventually brings it to the ground, after describing a parabolic curve. It was generally considered by mathematicians, from the time of Gallieo, that the path of a projectile was that of a parabola, and that the resistance of the air had but little, if any influence, in altering its form; but it was reserved for Newton to show that its true path, under the combined influence of the resistance of the air and the attraction of gravitation, was that of an hyperbola while passing through a medium offering a uniform resistance. He size showed that the resistance offered by the air to a projectile during its flight is proportional to the square of the velocity of the projectile, the resistance to spherical budies also varying as the square of their diameters and the density of the medium through which they pass. To determine and calculate the time of flight, the horizontal range, and the greatest height to which a shot will rise during its flight. requires a knowledge of trigonometry. It may, however, be said, that the range and time of flight depend entirely on the charge and the elevation of the greatest height to which a shot will rise during the flight. requires a knowledge of the time in which a projectile will decretile its flight is most necessary, especially in firing shells, that the grane may know how to regulate the length of the fuse, to insure the bursting of the shell at the time of reaching the

Digitized by GOQI

ancient and modern times, on account principally of the great difficulty of determining, by experiment, the constitutions of any particular at the constitution of the process of any particular at the constitution of the process of a constitution of the process of a constitution of the practical grunner, still, as a scient of range of the process of a constitution being so difficult, rather than its practical importance. Dr. Hutton, in his Mudrematical Tracts, draws the best hypothesis on the subject: and, although somewhat the constitution being generally found correct, are by , are the next trustworthy follow by any one who whise thoroughly to investigate and the process of the process breech and thus momentarily increase the angle of elevation of the muzzle. This effect takes place before the projectile has moved far in the bors. In every case the jump of a gun needs to be determined experimentally, by employing means to estimate accurately the direction of flight of the projectile. In some experiments made at Fortress Monroe in 1890, the jump of the 8-inch converted ritle was found to vary from 15 to 30 minutes of arc, it increasing with the angle of elevation.—Drift. Another variation in the direction taken by a projectile is that known as "drift." The oblong ball fired from a rified cannon is caused to rotate rapidly by the spiral grooves of the bors—the 12-inch projectile, for instance, which leaves the gun with a velocity of 2,100 foot seconds, has a rotation of 84 turns per second, which is probably kept up throughout its flight. This rotation aids in giving the projectile a stable direction of flight, enabling it partly to overcome the density and movement of the air and to keep its point forenous, so that it penetrates the air more easily and does more damage on striking. Yet a secondary result as a movement of the ball out of the plane of fire toward the side which corresponds to the direction of rotation. This accement is known as "drift." As nearly all rifled guns have a right-hand twist—or are grooved in such a way as to cause the projectile to rotate from left to right, or in the direction of motion of the hands of a watch—the drift is usually to the right. If the range be short, this effect is slight; but in long ranges it becomes considerable. Thus, the service projectile fired from the 8-inch converted rifle is found to drift 1 yard in a 1,500-yard range; 44 yards in a 3,000 range, and 15-1 yards in a 4,500 range, as the trift is constant for the same gun and range, its effects are easily allowed for, by ain in a point at the requisite distance to the left of the target.—Wind effects. The most troublesome deviation of projectiles are due to the wind, whose varying and uncerta

It is sifted before use.

SMOKELESS GUNPOWDER.—Within late years a number of gunpowders have been invented which, while greatly surpassing the old form of powder in explosive force, have also the property of producing little or no smoke, a result likely to be advantageous in some of the exigencies of battle, though it may be disadvantageous in others. The first general information obtained in regard to these powders was in connection with the Lebei rifle, the small-caliber repeating arm of the French, whose adoption caused a very general reconstruction of small arms throughout Europe. The powder adopted for this arm was largely noiseless and practically smokeless, and since its adoption numerous experiments have been made with new explosives, so that a varied list of smokeless powders now exists. These may be divided into three classes, of which the first is composed of cellulose nitrate (either the soluble or insoluble variety); the second class adds to the above nitroglyceriue or other organic nitrates; and the third adds nitro derivatives of hydrocarbous, such as picric acid and the picrates. With each of these some oxidizing agent may be employed, such as potassium nitrate, and such retarding agents as tannin and lycopodium. Of these powders, Indurite, the one in use in the U. S. Navy, belongs to the first class; Ballistite, used by the Italians, and Cordite, by the British, to the second class; and Peyton powder to the third class. The smokeless character of these explosives is due to the fact that the products of their combustion are wholly gaseous while ordinary G. yields 55 per cent, of finely-divided solids. The object in using these powders was not originally to do away with smoke, but to obtain greater explosive power, it being a debated question whether the presence of smoke on the battlefield may not be in many cases an advantage. In rapid-fire cannon, however, as in magazine small-arms, the value of smokeless powder is obvious, since a cloud of smoke would greatly impair the efficiency of these we of 2,459 feet per second and exerted on the chamber a pressure of only 13°96 tons. So far as explosive force in blasting is concerned, a series of experiments made before the Board of Fortification and Ordnance gave rank to the following explosives as follows: Perunite B, 17'57; Perunite C, 15'61; Perunite D, 13'66; Explosive Gelarina, 10; Rackarock, 9'36; Emmensite, 5'49; Guncotton, 3'16; U. S. rifle powder, 1'72. These results, however, do not fully indicate the value of these explosives for military purposes, in which other qualities of value may take precedence of explosive power. Of the various advantages which are claimed for amokeless powders in war, the greatest is that of the clear vision of the field which they give to commanding officers, who thus are enabled to see exigencies as they arise, and may often prevent disasters by more timely preparation for them.

preparation for them. \*sum\*powder Plot. (Eng. Hist.) A celebrated con-spiracy of some Roman Catholics, or, according to Lin-gard (vol. vii. ch. 1, 4 et seq.), of Catesby alone, to destroy the king, James I, and the two houses of Parliament, by gunpowder, which was detected on the 5th of Nov., by gunpowder, which was detected on the oth or Nov., 1605. This plot was in itself mysterious, and for pur-

poses of state policy and Protestant seal, a greater mystery was thrown over it. See FAWEES (GUT).

Gum'powder Eiven, in Maryland, enters the Chesapeake Bay between Harford and Baltimore cos.

Gum'reach, n. Same as Guyshor, q. v.

Gum'reach, n. Same as Guyshor, q. v.

Gum'reach, n. Same as Guyshor, q. v.

Gum'reach, n. Morad.) In the British service, the roun of the gun-deck of a vessel of war, occupied by the lieutenants as a mess-room.—In the American service, the term seard-room is exclusively applied to this room.

Gums, (Jönn.) [Hung. Aczeg.] A town of Hungary, on the Uins, 20 m. 8 of Oechaberg. Many! Silks and a woultens. This town was the first that successfully resisted Solyman the Magnificent, when in 1532 that monarch threatened to conquer all Europe. Pop. 8,600.

Gum'shot, n. (Mil.) The reach or range of a gun; the space to which an effective shot can be thrown.

—u. Made by the shot of a gun; as, a gunshot wound.

Gunshot Womads. (Mil. Sury.) A term applied to denote wounds produced by cannon-balls, bullets, &c., striking against the body. They differ in many respects from ordinary wounds, and constitute a distluct branch of science of themselves. Frequently, on a person being struck, he is not conscious of any pain, and he is first made aware of his wound by inability to use the part, or by feeling the blood trickling down. Generally, if the wound be at all severe, the patient becomes deadly pale, trembles, and seems about to die: but usually, with the aid of stinulants, these appearances pass off in a few hours. If they continue unabated, they give reason to fear the worst. It was long a generally received opinion that a person might be injured by the "wind of a shot," without being struck by it at all; but this idea is now exploded, for persons have had portions of their cluthes carried off by large shot, and even their ears or noses shot off without at all suffering from the wind of the shot.

Gum's Island, an island of Ireland, off the coast of the shot.

noses shot off without at all suffering from the wind of the shot.

Gun's Island, an island of Ireland, off the coast of co. Down, Ulster, abt. 3 m. N.E. of Ardghas. Gun's maith, n. One whose business is to make and repair small arms.

Gun'stock, n. The wood in which the barrel of a gun

Gun'tackle, n. The wood in which the barrel of a gun is fixed.

Gun'tackle, n. (Naut.) A system of pulleys, consisting of two single blocks, one morable, the other fixed, the standing end of the fall being made fast to the morable block. It increases the power threfold. They are used on board ships, to run the guns out of the ports.

They are used on board ships, to run the guns out or the ports.

Jumter's Chaim, n. [From the inventor Edmund Gunter, an English mathematician, who lived 1891-1826.]

The chain commonly used for measuring land. It is 66 feet, or 4 poles, in length, and consists of 100 links, each of which is joined to the adjacent one by 3 rings. The length of each link, including the connecting rings, is 7.92 inches. The advantage of this measure consists in the facility which it affords for numerical calculations.

The Prelith acre contains 4.840 ex. vis.: and Gunter's

iength of each link, including the connecting rings, is 7-92 inches. The advantage of this measure consists in the facility which it affords for numerical calculations. The English acre contains 4.840 sq. yds.; and Gunter's chain being 22 yds. In length, the square of which is 484, it follows that a square chain, again, contains 10,000 square links, as that 100,000 square links, as that 100,000 square links are equal to an acre; consequently, the area of a field being estimated in square links, it is only necessary to divide the result by 100,000, or to cut off the last five figures, to obtain the area expressed in acres.

G'a Line. (Math.) A logarithmic line engraved on scales, sectors, &c., serving to perform the multiplication and division of numbers instrumentally, as a table of logarithms does arithmetically. The numbers are usually drawn on two separate rulers aliding against each other. In rough calculations this line affords considerable facilities.—G's Quadrant. A quadrant of a peculiar kind, adapted to the problems of finding the hour of the day, the sun's aximuth, and other common problems of the sphere.—A large plane scale, having various lines of numbers engraved on it, by means of which questions in navigation are resolved with the aid of a pair of compasses. It is usually called the Gunter by seamen. On one side of the acale the natural lines (as the line of chords, the line of sines, tangents, rhomits, &c.) are placed; on the other the corresponding logarithmic ones. Gun'terwille, formerly Gum'ter's Landding, in Alubama, a post-village, cap. of Marshall co., on the Tennessee River, abt. 35 m. 8 k. of Huntaville.
Gun Town, a locality in Georgiu, on the line of the Mobile and Ohio Railroad. Here, June 10, 1864, a National force of 12,000 men, commanded by Gen. Sturgis, was utterly routed by the Confederatea, under Gen. Forest, losing about 3,500 men, and everything except arms.
Gun Wale, Gunnel, (gun'nel), n. [From gun, and soile, because the guns of the spar-deck are pointed thence.] (Naul.) The

nd when borne properly, is azure

and when borne properly, is axure and argent.

Genergle, v. n. [It. gorgogliare, ne, a whirlpool.] To fall or gush with noise, as water from a bottle: to run or flow in a noisy, broken, and irregular current.



Fig. 1216.

Some of the most remarkable Druidical remains in Great Britain.

Gur'may, n. (Mining.) A level or working.

Gur'met Point, in Massachusetts, a promontory on the N. side of the entrance to Plymouth Harbor. It exhibits two fixed lights, 11½ ft. apart, and 86 ft. above sea-level; Lat. 42° 0'6" N., Lon. 70° 36′ 48" W.

Gur'mey, Joseph John, an English philanthropist, the brother of Elizabeth Fry (q.v.), and her companion in her memorable visits to the prisons of Great Britain and the Continent of Europe, s. at Earlham Hall, Norfolk, 1788. When four years of age he lost his mother; and his early education was intrusted to his three cldest sisters. At a later period he went to Oxford, where he enjoyed many advantages at the university, without becoming a member or subscribing to the Thirty-Nine Articles. His preference ultimately became settled in favor of the views and profession of the Quakers, among whom he was born; and consistently with them he lived and died, by no means finding in them any barrier to the fullest and freest association with any other body of Christians, or to a personal friendship with the ecclesiastical dignitaries of the Norwich diocese. G. was the author of numerous works, which gained him a highly respectable rank in the republic of letters. Among these may be mentioned his Notes on Prisons and Prison Discipline; Essays on the Evidences, Doctrius, and Practical Operations of Christianity; A Winters of this truly excellent man were published by J. B. Braithwaite, in 1854.

Gur'rah, n. [Hind.] A sort of plain, coarse Indian muslin.

Gur'rah, n. [Hind.] A sort of plain, coarse Indian

musin.
Gur'ry, n. A small fortress. (E. Indies.)
Gur'ry, n. A small fortress. (E. Indies.)
Gur'ry, n. A small fortress.
200 m. W. of Para.
Gurrapatu'ba, a river of Brazil, entering the Amazon

at Montalegre.

Gurupi', a river of Brazil, prov. of Para, flows N.E. into the Atlantic Ocean. Its mouth is called Gurupi Bay.—

A town, situate at the mouth of the above river, abt. 55 m. E. of Bragansa.

Gurwhal, or Gurhwal, (pöör-sod!), a state of India.

m. E. of Braganza.

Gurwhal, or Gurhwal, (göör-wal') a state of India, lies between the Debra-Doon and S.W. Thibet, extending in N. Lat. from 30° 2′ to 31° 20′, and in E. Lon. from 77° 55′ to 79° 20′; a rea, 4,500 sq. m. Being on the S. slope of the Himalayas, G. is little more than a mass of stapendous mountains, whose elevation above the sea sometimes reaches 23,000 feet. It may be regarded as the cradle of both the Jumna and the Ganges, attracting in spite of the length and ruggedness of the way, crowds of pilgrims to the peculiarly sacred localities of Jumnotti, Devaprayaga, and Gangotri. Pop. abt. 100,000.

Gusha, v. E. [Ger. gust, a pouring, gizzes, to pour.] To flow copiously; to stream; to issue with violence and rapidity, as a fluid; to rush forth, as a fluid, from confinement.

finement.
-v. a. To emit in copious effusion.
-s. A sudden and violent issue of a fluid from an enclosed

-m. A sudden and violent issue of a fluid from an enclosed place; the fluid thus emitted.

Gush'er, n. One who is effuse in writing or speech, especially a sentimental person. (Colloq.)

Gush'ang, p. a. Rushing forth with violence, as a fluid; flowing copiously; emitting profusely.

-m. A rushing forth with violence; effusion.

Gush'angly, adv. In a gushing manner.

Gush'angly, adv. In a gushing manner.

Gushet, n. [Fr. gousset, a fob or small pocket, from gousse; It. guston, a pod, husk, or shell.] The piece of cloth that covers the armpit in a shirt.

"Seam. gusset, and band.

Beam, gusset, and band. Band, gusset, and seam." — Ho

—A small piece of cloth inserted in a garment for the purpose of enlarging or strengthening some part of it.

Gust, n. [Lat. gustus, from Gr. gencin, to give one a taste.] Taste, or the sense of tasting; the pleasure of

deglutition; relish.
"Destroy all creatures for thy sport or guet." — Pope

-Turn of fancy; intellectual taste

According to the gust and manner of the ancients." - Druden -Love; liking; appreciation.
"The gust and relish of true happing

"The gust and relies of true nappusess."—I Museson.

Gratification of any kind, especially that which is highly relished; enjoyment; as, to allay an appetite with gust.

[Icel. gustr, a cold blast.] A sudden squall; a violent burst of wind; a gale. — A sudden and violent outbreak of passion.

. n a weak distempered soul, that swells iden gusts, and sinks as soon in calms."

Gusta'tion, n. [Fr., from Lat. gustatio.] The act of

-m. A gush or flow of liquid, or the sound produced by it.

Gun'glet, n. An earthen jar for cooling water by evaporation.

Gun'gling, p. a. Flowing with a purling sound; as, gurgling waters, gurgling with a broken or noisy current.

Gun'glingly, adv. In a gurgling manner.

Gun'gulingly, adv. In a gurgling manner.

Gun'gulingly, adv. In a gurgling manner.

Gun'boilte, Gunho'flam, n. (Min.) A compact, porcellanous, snow-white variety of Dolomins, q. v.

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Gun'ley, in Alabama, a P. O. of Madison co.

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Gun'ley ille, in Consectical, a post-village of Tolland co., abt. 25 m. E. by N. of Hartford.

Gun' (Loughh.) a lake of Irleand, abt. 10 m. E.S.E. of Limination of the most remarkable Druidical remains in Great Britain.

Gun'may, n. (Mining.) A level or working.

Gun'mard, Gun'mat, a P. O. of Madison co.

Gun'ley ille, in Massachusetts, a promonotory on the Nasachusetts, Charles IX., in 1611, and continued the war with Denark, Russia, and Poland. He selected Axel Oxenstiern for his chief minister, and by his counsel restored the nobles to the rights and privileges of which they had been deprived, and thus attached them to his interesta. He concluded peace with Denmark in 1613 on advantageous terms; was crowned in 1617; married in 1620 Eleanor, daughter of the Elector of Brandenburg, who became the mother of the celebrated Christina, his successor on the theory. cessor on the throne; acquired subsequently great part of Livonia, and successfully fought against Sigismund, king of Poland, who claimed the crown of Sweden. Inwited by the Protestants of Germany, and urged by France, — prompted, too, by his own earnest regard for the Protestant with a small force of 8,000 men, which was afterwards angemented by a body of English troops under the Duke of Hamilton. From the isle of Rügen, of which he first order himself was the bedween the contract of which he first order himself was the contract of which he first order himself was the contract of which he first order himself was the contract of th which he first made himself master, he advance



Fig. 1217. - GUSTAVUS ADOLPHUS.

Fig. 1217. — GUSTAVUS ADDLPRUS. from point to point through Pomerania and Mecklenburg, victorious at every step. He took 80 fortified towns in eight mouths. At length the emperor sent his great general Tilly to oppose him, and Gustavus won a great victory over him at Leipsic, on the 7th of Sept., 1631. Saxony heartily supported Gustavus, who soon after took Ments, and in April, 1632, defeated Tilly again at the passage of the Lech. The emperor, alarmed by the invasion of Bohemia, made Wallenstein commander-in-chief; who recovered Bohemia, and after holding a strong position near Nuremberg for many weeks, met Gustavus on the field of Littzen, on Nov. 5th, 1632. Victory was with the Swedes, but their heroic leader fell in the fight, not without suspicion of assessination. G. A. was one with the Swedes, but their heroic leader fell in the fight, not without suspicion of assessination. G. A. was one of the noblest men, and one of the greatest military commanders of modern times. He was great also as a ruler and administrator, and did not allow war to exclude commerce and the internal regulation of his states from his earnest attention.

GUSTAYUS III., king of Sweden, was the son of Adolphus Frederick and Louisa Ulrica, sister of Frederick II., king of Prussia. He was B. in 1746, and succeeded his father Prederick and Louisa Uirica, sister of Frederick II., king of Prussia. He was B. in 1746, and succeeded his father in 1771. The kingdom was in a state of distraction and anarchy, and the nobles had monopolized the chief power, and were themselves divided into two hostile parties. Gustavus immediately applied himself to the suppression of these disorders, and by a bloodless revolution completely succeeded. A new constitution was introduced and accepted, and the king became supreme. The amendment of the laws next engaged his attention. He abolished the practice of torture, and introduced other good regulations in the administration of justice. He also formed a college of commerce, and reformed his army and navy. In 1788 he was involved in a war with Russia and Denmark. Gustavus headed his army himself, and stormed the defences of Frederickshall, where he took and destroyed a great number of vessels. In 1789, the king, harassed by the opposition of some of the nobles, arrested the leading men, and compelled their acceptance of a measure which extended his authority considerably. On the breaking out of the French revolution, a coalition was formed between the northern powers and Spain, by which it was agreed that Gus-

tavus should march against France at the head of a custiderable army; but while preparations were making, he was shot at a masquerade by Ankarstrüm, a disbanded officer of the army, March 15th, 1792, and n. oa the 29th

the 29th. USTATUS IV., king of Sweden, son of Gustavus III., was B. in 1778, and ascended the throne when his father fell by the hand of an assassin, March 29, 1792. When the Duke d'Enghien was seized, and, after a mock trial, shot by the orders of Napoleon, Gustavus vowed eternal hostility to the French emperor. He ordered his ambass-dor to leave Paris, dismissed the French ambassador to leave Paris, dismissed the French ambassador from Sweden, and returned to the king of Prussia the order of the Black Eagle, with which Napoleon had also been invested, nobly saying, "that he never could, acording to the laws of knighthood, consent to be bruther companion to an assassin." His hostile proceedings, howcompanion to an assassin." His hostile proceedings how-ever, became at last so preguant with danger to his country, that a council of state entreated him to make ever, occame at this so preguant with usinger to miscountry, that a council of state entreated him to make peace. This he refused to do; a revolution in Sweden was the consequence; Gustavus was imprisoned, and he afterwards signed his abdication. His uncle, the deke of Sudermania, was then raired to the throne under the title of Charles XIII., and Christian Augustus, of Heistein-Augustenburg, was invested with the title of Prince Royal of Sweden, or heir-apparent. This prince dying soon after, the succession was transferred to Marshal Bernadotte, who in 1816 ascended the Swedish throne as Charles John XIV. After his abdication, Gustavus was a mere wanderer upon the face of Europe, sometimes bearing the designation of Count Gettory, sometimes that of the Duke of Holstein, and again the more humble one of Gustavasos. He was in England, at Hartwell, with Louis XVIII. His later years were spent in poverty. D. at 8t. Gall, 1837.

Sussawus, in Okio, a post-township of Trumbull co.

co.
Gusta'vus, in Tennesse, a village of Greene co., about 60 m. E. by N. of Knoxville.
Gus'to, n. [It., taste.] The relish of anything; the power by which anything excites sensations on the palate.—Intellectual taste or liking; nice appreciation.
Gusto'so. [It.] (Mus.) With taste.
Gusto'so. [It

gusty wind.

Gut, n. [L. Ger. kuttel, probably allied to A. S. grotan, to pour out.] That through which anything flows or pours forth; a passage or strait; as, the Gut of Canso.

— The intestinal canal of an animal; the entire mass formed by the convolutions of the intestines.

This lord wears his wite in his belly, and his guts in his head."

The stomach; the receptacle of food.—The substance made by pulling asunder a silk-worm when about to spin its cocoon, and drawing the latter into a thread, which, after being dried, is very strong and is much used for fish-lines.

ev. a. To eviscerate; as, to gut fish. — To plunder of con-tents; es, the mol gutted the house. Gut Manufacture. See Cargur.

Guth'rie, in Indiana, a post-village of Lawrence co, abt. 10 m. N. of Bedford.
Guth'rie, in Issa, a S.W. central co.; area, abt. 576
sq. m. Rivers. Middle River, or Middle Fork of Raccon
River, and numerous smaller streams. Surface, generally level; soil, fertile. Cap. Guthrie Center. Pop. (1895)



so, m. Rivers. Middle River, or Middle Fork of Raccon River, and numerous smaller streams. Surface, generally level; soil, fertile. Cap. Guthric Center. Pop. (1895) 17,953. Guthrice, in Missouri, a post-township of Callaway co. Guthrice Centre, in Iosa, a post-town, cap. of Guthrice. Pop. (1895) 1,141. Guthrice. In Pensylvania, a post-village of Chester co., abt. 63 m. E.S.E. of Harrisburg. Guthrice. In S. Carolina, a P. O. of York dist. Guttra. In S. Carolina, a P. O. of York dist. Guttra. In S. Carolina, a P. O. of York dist. Guttra. P. Guttra. [Lat., a drop.] (Arch.) Small ornaments resembling drops, used in the Doric entablature on the under sides of the mutules of the cornice, and beneath the tenia of the architraves, under the triglyphs. Gutta-perchas, (gut'd-pert'shd.) The concrete juice of the Sandara Gutta, a tree belonging to the fam. of the Sandacac. (See Isonanba.) It grows abundantly in Singapore, Borneo, and other islands of the Eastern Archipelago. The tree, which is called percha, grows to the diameter of five or six feet, and, on being notched, yields a milky juice, which is called percha, grows to the air, forming the gutta-percha of commerce. It is a tough, inelastic substance, becoming soft and plastic at 2127, at which temperature it may be moulded into shape, which it retains without change until it is cool. Its plastic properties render it extremely useful in the sarts, and it is much employed for copying casts and impressions. Beautiful mouldings, picture-france, and annumber of ornamental articles, are made from it. If also possesses the valuable property of welding together at the temperature of boiling water. It is a powerful insulator, and is consequently much used for costing the wires for telegraphic purposes. Being imprevious to moisture, and resisting the actions of acids and alkalies to a great extent, it is of much use to the chemist as a material for making bottl

that the purified G.P. of commerce consists of 75 to 80 per cent. of chemically pure gutta-percha, which is insoluble in ether and alcohol, and a white and yellow resio, soluble in boiling alcohol. The crude lumps are imported in the forms of fish, animals, and blocks, which are softened by boiling water, and passed through a series of kneeding, roiling, and cutting machines, by means of which all the stones and other solid matters are extracted. It is then submitted to the action of masticators, and rolled or fashioned into the desired shape. It may be rolled into thin transparent sheets, which are much used for surgical purposes, being perfectly impervious to moisture. In its purified condition it is useful for a thousand different purposes. Gut'ta-sere'ms, n. [Lat., clear drop.] (Med.) Sec Amaurocis.

Gut'tate, a. [Lat. gutta, a drop.] (Bot.) Sprinkled

AMAUROSIS.

Gustate, a. [Lat. gutta, a drop.] (Bot.) Sprinkled with colored dots or small spots.

Gustates, or Gustates, or Gustates, or Gustates, Jan. B. at Sulgeloch, near Mentz, in Germany, 1400. He is supposed to have made his first experiment, in the art of printing.



—e. s. To be hollowed or channelled; to run in drops or hollows, as a candle. Gut'tering, s. The channels made for carrying off water. —The act of making channels to carry off superfluous water. But (Bot.) Same as Clusiaces, q. v. Guttifers, s. pl. (Bot.) An alliance of plants, sub-class Hypognous Exogens. Diad. Monodichlamy-deous flowers, axile placents, an imbricated callyx, an imbricated or twisted corolls, stamens indefinite, and an embryo with little or no albumen. The alliance is divided into 7 orders, vis., Dipteraces, Ternstromaces, Britobolaces, Clusiaces, Marcohoviaces, Hypericaces, and Reaumuriaces, q. v.

RHIODOLACER, CLUSIACER, MARQUROVIACER, HYPERICACER, and REAUMURIACER, q. v. Guttiferous, a. Yielding gum or resin. Gut'tler, n. A person who eats greedily and voraciously. Gut'tural, a. [Lat. gutturalis, from guttur, the throat.] Belonging to the throat; formed in or by the throat; as, a guttural pronunciation.—n. (Gram.) A sound formed in the throat or back part of the mouth. In English there are, properly speaking, no gutturals; but the palatals g and k are nearly allied to them. In the Spanish language alone, of those derived from the Latin, are gutturals common in German, the guttural ch is very common, as it was also in Greek; and it occurs in Scotch in such words as Loch. The Arablan language is full of gutturals.

also in Greek; and it occurs in Scotch in such words as Lock. The Arabian language is full of gutturals. Gutturality, n. The quality of being guttural. Gut'turalise, v. a. To speak from the throat; to pronounce deeply and from the depth of the lungs. Gut'turally, adv. In a guttural manner. Gut'turally, adv. In a guttural manner. Gut'turalless, v. a. To make in the throat; as, the Germans gutturise, v. a. To make in the throat; as, the Germans gutturise, v. a. To make in the throat; as, the Germans gutturise, v. a. To make in the throat; as, the Gut'twerf, n. [Med.] The wild senna. See GLOSULABIA. Gut'ty, a. (Her.) Charged or sprinkled with guts. Gut'y, (ghi, n. [Sp. guida, a guide.] (Naut.) A rope used to swing any weight, or to keep steady any heavy body and prevent it from swinging while being hoisted or lowered; also, the tackle by which any fore-and-aft sail is held forward to prevent it gybing.

—a. A person ridiculously dressed. (Oolloq.)
Guyan, (ghi'sn.) in Ohio, a township of Gallia county.

Guyam, (ghf'an,) in Onio, a township of the Companies of Cabell co., on the Onio River, at the mouth of the Guyamdotte, abt. 228 m. below Wheeling.

—A post-village of Cabell co., on the Onio River, at the mouth of the Guyamdotte, abt. 228 m. below Wheeling.

Guy'amillites, n. (Min.) A fossil oxygenated hydrocartun from Guyaquil, S. America. It is of a pale-yellow color, slightly soluble in water, but largely in alcohol, giving an intensely bitter, yellow solution. Sp. gr. 1092. (Comp. Carbon 76:665, hydrogen 8:174, oxygen 16:161.

that the purified G.P. of commerce consists of 75 to 80 per cent. of chemically pure guita-percha, which is insolide in other and alcohol, and a white and yellow in other and alcohol, and a white and yellow in the forms of fish, animals, and blocks, which are softened by boiling water, and passed through a series of kneading, rolling, and cutting machines, by means of which all the stones and other solid matters are extracted. It is then submitted to the action of masticators, and rolled or fashioned into the desired which are much used for nurgical purese, being refer the percentage of the submitted to the action of masticators, and rolled or fashioned into the desired which are much used for nurgical purese, being referring the superse, long, a large provision of the present of the manner of the form of masticators, and rolled or fashioned into the desired which are much used for nurgical purese, being referring the superse, long, a large provision of the present of the supposed to have made his first experiments in the art of printing with movable types be a large provision of the present of the

her writings with a fearlessness as remarkable in such a woman as the purity of her imagination.

Guys'berough, in Nova Scotia, an extreme E. co., bordering on the Atlantic. Area, abt. 1,500 sq. m. Riverz. Middle and St. Mary's rivers, besides numerous bays and inlets. Surface, broken; soil, in some places fertile. Cap. Guysborough. P.p. abt. 18,600. Its cap, of same name, is a seaport-town on Chedabucto Bay, opposite Manchester.

Giuy's Mills, in Pennsylvania, a P. O. of Crawford co.

Guy's Mills, in Fennsylvania, a P. O. of Crawford co. Guys'ville, in Ohio, a post-village of Athens co., on the Hocking River, abt. 82 n. 8. K. of Columbus.

Gu'ses, n. pl. (Her.) Roundlets of a sanguine color, supposed to represent wounds.

Gus'sle, v. n. [Lt. gazzovightare, from gazzo, the throat.]

To swallow liquor greedily; to drink much or frequently.

"Who, while she guzzize, cheats the doctor's praise."

Recommen.

v. a. To swallow with immoderate gust. "Still guzzling must of wine." - Dryden.

"Still guzziteg must of wine."—Dryden.
Gun"nie, n. Any thing or person that is insatiable.
Gun"nier, n. An immoderate eater or drinker.
Givondevi, (g'ros-da'rċž.) a group of islands in Behring's
Strait, between N. America and Anis, Lat. 66° 40' N.,
Lon. 173° 50' E. Imaglin, the largest, is 25 m. in length.
They are low and destitute of vegetation.
Gwal'ior Territories, a district of Central Hindostan, in the dominions of Scindia, bounded by Bundeicund, Chumbal, Dhar, Rajpoor, and Kotah. Area,
33,100 sq. m. Prod. Rice, wheat, maize, sugar, opium,
cotton, and castor-oil. Silk is largely manufactured.
Pop. 3,580,000. This state is under the protection of the
British. Its capital, of the same name, on a tributary cotton, and castor-oil. Silk is largely manufactured. Pop. 3,580,000. This state is under the protection of the British. Its capital, of the same name, on a tributary of the Chumbal, Lat. 290 13' N., Lon. 780 15' E., stands on an isolated rock, 300 ft. high, perpendicular on all sides, 1½ m. long by 300 yds. wide, capable of accommodating a garrison of 15,000 men. Pop. 9,500. Gwinett', in Georgia, a N. central co.; area, about 550 sq. m. Rivers. Chattahochee. and the head-waters of the Appalachee, Yellow, and Ulcofauhachee or Alcovy rivers. Surface, hilly; soil, generally fertile. Min. Gold, iron, and antimony. Cup. Lawrenceville. Gwynedd, (gwin'eth.) (Geog.) The ancient name of North Wales.

North Wales.
Gwynedd, in Pennsylvania, a post-township of Mont-

gomery co.

Gwynne, Nell, (gwin,) an English actress, who was
raised from the lowest situation to the favor of Charles

11. In the early part of her life she entertained comranseu from the lowest situation to the favor of Charles II. In the early part of her life she entertained companies at taverns by singing; and, previous to her winning the affections of the King she had formed various questionable connections. She founded Chelsea Hospital. D. 1667.

Gybe, s. A sneer. See Gibs.
Gyb'ing, n. (New!) In sailing, the act of going about when the wind is astern or abaft the beam. It consists

in bringing the ship's head across the wind, when the wind exercises its force on the opposite side of the sail to that which it previously affected.

Gyges, (ji'jes,) (Myth.) a son of Coelus and Terra, represented as having a hundred hands. He, with his brothers, made war against the gods, and was afterwards punished in Tartarus.—A shepherd, who possessed a ring which rendered him invisible when he turned the stone towards his letter.—A Swine (forch): a third the stone towards his letter. ring which rendered him invisible when he turned the stone towards his body. — A Syrian (probably the same as the preceding), to whom Candaules, king of the country, showed his wife naked. The queen was so in-censed at this instance of imprudence in her husband, that she ordered Gyges either to prepare for death him-self, or to murder Candaules. He chose the latter, that she ordered Gyges either to prepare for death himself, or to murder Candaules. He chose the latter, married the queen, and ascended the vacant throne, about 718 years before the Christian era. He was the first of the Mernmade who reigned in Lydia. He reigned 38 years, and distinguished himself by the immense presents which he made to the oracle of Delphi. By mans "stareth", n. [Gr. gymnasion, a school, and archein, to govern.] (Gr. Antiq.) The officer among the Athenians who had charge of the schools, and provided for their management.

the Athenians who had charge of the schools, and provided for their management.

Gymmasiums, (jim-ndi'zeum,) n. [Lat., from Gr. gymnazion, a school, from gymnazen, to practise, from gymnoz, naked.] The name given by the Greeks to those places in which their youth exercised themselves naked. The gymnasia of the Greeks and Romans were looked upon as an important part of their educational systems. The Greeks, indeed, devoted more time to the gymnastic training of their youths than on all the other departments of education. There were three public gymnasia in Athens,—the Academia, Lyccum, and Cynosarges, besides several smaller private ones. The administration of these institutions was given to a gymnasiarch, whose ments of education. There were three public gymnasia in Athens,—the Academia, Lyceum, and Cynusarges, besides several smaller private once. The administration of these institutions was given to a gymnasiarch, whose duty it was to place the youths under proper teachers, to conduct the games, and pay the athlets. In these gymnasiar there appear to have been ten gymnasiarchs; next in rank came ten other officers, called the Saphroniste, or "teachers of wisdom," who seem to have looked after the moral development of the pupils at the gymnasium. The Gymnasia and Padotrida assigned to the youth the different kinds of exercise adapted to the youth the different kinds of exercise adapted to the possibilities of each. The Alipta, or "anointers," prepared the youths for the day's exercise, by anointing them with oil, and then sprinkling them with dust. In the gymnasium the principal exercises were foot-rucing, acc, and the younger pupils played a variety of games with balls, tops, &c. The gymnasium of the ancients was not one building, but rather a group of edifices, which could contain a vast number of people. It generally consisted of twelve parts:—The exterior porticus femininos, where the philosophera, rhetoricians, mathematicians, and others, disputed or lectured publicly. Secondly, a place where the pupils assembled early to learn their exercise privately. The next, a sort of antechamber, called the caryccum apodyterion, or gymnasterion, where they stripped either for the purpose of bathing or exercise. The fourth division was used for anointing purposes, and was called the elethesium, alipterion, or unctuarium. The fifth and sixth portions were the consisterium, where they covered themselves with sand or dust; and the palestra, the place where they practised boxing, wreetling, &c. A seventh portion of the gymnasium was reserved for ball-exercise, and was called the spheristerion. The systic were porticas where the wrestlers contended during inclement weather; and there were other systi, or open alleys, for fine we real schools (realschulen), which are intended to give a suitable education for such as are destined for business or trade, in having as their object the bestowing of a mental and scientific education on such as are intended for the universities. The course of study usually extends over six or severe years, and includes Latin and Greek, history, geography, mathematics, religion and Bible knowledge, natural and mental philosophy, natural history, German, French, English, and singing. The scholars leave about the age of 18 or 20, to enter the university; but on leaving they are required (in Prussia at least) to undergo a very strict examination before they can enter the university; and, indeed, they cannot pass from one class to a higher without giving satisfactory evidence that they have profited by their instructions. Not a few, in this way, are forced to spend 2 years in one class. A committee is appointed by govt. for the examination of such as intend entering the university without passing through a symnastic, Gr. gumnante.] On the instructions of the control of the control of the profite of the control of the

ment.
Of or belonging to intellectual, or disciplinary exercises

of the mental powers.

Gymnas'tle, n. Disciplinary exercise, weether of body or mind.

Digitized by

Gymnas'tically, adv. In the manner of a gymnast. Gymnasc'ticas. A term applied to those exercises of the body and limbs which tend to invigorate and develop in the body and limbs which tend to invigorate and develop in the control of the control Gymnas'tica. A term applied to those exercises of the body and limbs which tend to invigorate and develop their power. Gymnastic games are of very ancient origin. They are mentioned in the second book of the Riad, where playing at quoits and javelin-huring are mentioned; and in the 23d book, where Achilles is represented as instituting games in honor of Patroclus, in which the sports were chariot-racing, loxing, wrestling, quoit-throwing, &c. Later on, games of this kind were dedicated to the gods, and the rewards being called athia, gave origin to the name athicts, applied to those who contended for them. Shortly before the time of Hippocrates, gymnastics were made a part of medicine, and gradually they were reduced into a complete system. Public buildings, cailed gymnasia, were erected for the purpose, and officers for their superintendence were appointed by the state. The Romans erected gymnasia on a magnificent scale; and on account of the extensive baths which were attached to them, they were latterly called therms. Among the exercises practised in these gymnasia, were dancing, wrestling, boxing, running, leaping, quoit-throwing, and hurling. Besides these, which formed the regular business of the gymnasium, were riding, driving, swimming, rowing, climbing ropes, swinging, mock fights of various kinds, &c. Various causes in later times have combined to cause G to go out of use as a part of education and a method of maintaining health. Modern warfare depends so much on military science and a knowledge of gunnery, and so little on physical strength, that military G has been much overlooked. It is only since the commencement of the present century that gymnasis exercises have been revived as a science. In 1806, the revival began in Prussia, where gymnasis and from that time the practice of G. has formed a leading feature in the course of education in both countries. As the gymnasis in Prussia began to be the seems of political meetings of a kind offensive to the government. from that time the practice of U. has formed a teaching feature in the course of education in both countries. As the gymnasia in Prussia began to be the scenes of political meetings of a kind offensive to the government, they were abolished in 1818. The practice of G. was, however, kept up by the troops, and with such evident success that a similar course of training was adopted in the French army in 1844. The gymnastic exercises adopted by the puglists and wrestlers of the present day in their course of training are not able to produce on the mind or body any desirable effect; and the same was observed in the condition of the athlete of old. But gymnastic exercises, practised under proper control, must act beneficially, both mentally and physically. As Montalgne observes, "It is a soul, not a body only which we educate; it is a man, of whom we must not make two; we must not train the one without the other, but must guide and lead them like a pair of horses harnessed to one shaft." G. act upon the courage, and produce independence and presence of mind. Besides being a suitable interruption to mental labor, and the best recreation after it, they produce cheerfulness, and retrieved the force and treatlection to research led limits. nessed to one shart. "Act upon the courage, and produce independence and presence of mind. Besides being
a suitable interruption to mental labor, and the best
recreation after it, they produce cheerfulness, and restrict the fancy and imagination to reasonable limits.
"If you wish to develop the mind of a pupil," says
Roussean, "develop the power which that mind has to
govern: exercise his body; make him healthy and
strong, that you may make him prudent and reasonable." In ordinary gymnasia, the principal apparatus
employed consists of the horizontal pole, the parallelbars, the mants or poles, the ropes, the triangle and trapres, the ladder, the seconden horse, the inclined plane,
and the flying-course, or giant's stride. The horizontal
pole is used in order to develop the strength of the hands
and arms, though many other exercises are performed
on it. The parallel bars are mostly about 8 feet long,
and fixed about 2 feet apart, at a height of 3 or 4 feet
from the ground. The exercises upon them, which are
of great variety, tend to strengthen the arms and chest,
and to render the body pliant. The masts and poles,
which vary in their inclination, are used for climbing
purposes. The triangle and trapeze afford more amusement than any other instrument used in modern gymnasia, as the lightness of their construction, and their
being constantly in motion, make the evolutions performed on them appear easy and graceful. The wooden
the body supple. The wooden horse, which can be lowered or raised on its stand when required, is for exercise
in vaulting and leaping. The inclined plane, usually
a deal plank between 20 and 30 feet in length and 2 feet
in breadth, is used for a variety of exercises, tending to
strengtheu the hands, arms, cheet, abdomen, legs, and
feet. The flying-course, or giant's stride, is an amusing
exercise, but is not superior to any of the others in its
effects. In all cases, gymnastic exercises of every kind
should be practised with caution and exercise, but is not superior to any of the others in its effects. In all cases, gymnastic exercises of every kind should be practised with caution and moderation. Although the dangers connected with the practice of G. are often exaggerated, nevertheless muscles may become strained through excess, and ruptures and other serious accidents occur.

accidents occur.

Gymne; ma, n. [Gr. gymnes, naked; nema, filament.]

(Bot.) A genus of plants, order Asclepiadaces. The species G. lactifera, a native of Ceylon, yields a nutritious milk which is used as human food. It is called,

tious milk which is used as human food. It is called, on this account, the Cow-plant.

Gymn'nite, n. [Gr. gymnos, naked, in allusion to the locality Bare Hills, Md.] An amorphous mineral somewhat resembling gum-arabic, or a brownish or yellow resin, of a greasy lustre and whitish, yellowish, greenish, or reddish color. Translucent and brittle. Sp. gr. 2246. Comp. Silica 40-2, magnesia 35-7, water 24-1. Called also Dewaylite. It occurs with serpentine.

Gymnos\_areposs.a. [Gr. gymnos, naked, and karpos, fruit.] (Bot.) Naked-fruited, as the cherry-tree.

Canada, and in our northern States on the bo Canada, and in our northern States on the border of lakes and rivers, is a tree 50 feet high, with a slender trunk 15 inches in diameter, straight and single to the height of 25 feet, covered with rough, scaly bark, and supporting a rather small but regular head; flowers large and white, succeeded by large curving pods containing several hard, gray seeds. The branches have aimost always an upright direction; and the appearance of the head, in the winter season, is remarkable, from height.

from being from being fast i glate, and from the points of the being few, and thick and and blunt, as compared with those of almost every other tree. They are also wholly without the appearance of pearance buds; and this latter circumstance, con-nected with the former. gives the tree, during winter, the appearance of being dead; and hence the Canadian name of chicot, or stump



Fig. 1220. — THE COFFEE-TREE. (Gymnocladus Canadensis.)

Can adian
name of chicot, or stumptree. The (Gymnociadus Canadensis.)
leaves, or young thriving trees, are 3 feet long, and 20 inches wide; but on trees nearly full-grown they are not half that size. The leaflets are of a dull bluishgreen, and the branches of the petioles are somewhat of a violet color. The wood is hard, compact, strong, tough, and of a fine rose-color; it is used both in cabinet-making and carpentry, and, like the wood of the robinia, it has the remarkable property of rapidly converting its sap-wood into heart-wood, so that a trunk 6 inches in diameter has not more than 6 lines of sapwood, and may, consequently, be almost entirely employed for useful purposes. The seeds were, at one time, roasted and ground, as a substitute for coffee, in Kentucky and Tennessee; but their use in this way has been long ago discontinued. The pods, when preserved like those of the tamarind (to which this genus is nearly allied), are said to be wholesome, and slightly aperient.

Gymnogens, n. [Gr. gymnos, naked, and gennein, to produce.] (Bot.) A class of plants, including those which are distinguished by having the seeds naked or uninclosed by seed-ressels. The plants grouped in this class have nearly an equal relation to flowering and flowerless plants. They agree with the former in habit, in the presence of sexes, and in their vascular tissue being complete; among the latter, some accord in habit with the ferns and club-mosses. So great is the resemblance between some club-mosses and certain conifers, that they can be distinguished by no other external character except their size. Gymnogens are known from most other vasculares by the vessels of their wood having large apparent perforations or discs; they do not, however, differ in growth from other exogens, but are essentially exogens in all that appertains to their organs of vegetation, but they are analogous to reptiles in the animal kingdom, inasmuch as their ova are fertilized by direct contact with the male principle. The Conifers and Cycad

about B. C. 326.

Gymnosophits.

Gymnosophits.

Gymnosophits.

Gymnosophits.

Gymnosoper'moun, a. (Bot.) Belonging to the ord.

of plants consisting of gymnosoperms.

Gymn'mos perms, n. pl. [Gr. gymnos, naked, and sperma, seed.] (Bot.) Flowering plants with naked seeds, that is, with ovulee not inclosed in an ovary. They are so called in contradistinction to the Angiosperms, which

have their seeds inclosed. In the arrangement followed in this work, the G. constitute a distinct class called GYMNOGENS (q. v.), while in other systems they constitute a division of the class Dicotyledones.

Gymn'mote, Gymnmo'tus, n. [Fr. gymnot'; Gr. gymnot, naked, and nölös, the back.] (Zool.) See Est.

Gymnwi'ra, n. [Gr. gymnos, and osera, a tail.] (Zool.) The Bulan, an insectivorous animal of Sumatra. In it dentition and spring covering it closely resembles the Hedgehog; but it has the long, naked, scaly tail and pointed mustle of the Shrews.

Gymn, fin, n. (Mil.) A machine for mounting and dismounting ordnance from their carriages, &c. See Deerse. Gymso'coum, n. [Gr. gymakicion.] (Greek Arch.) The portion of a dwelling or a public building that was set apart for the occupation, or for the exclusive use, of the emals sex.

apart for the occupation, or for the exclusive use, of the female sex.

Gymscoc'racy, n. [Gr. genaticolratia.] A term sometimes used to indicate that state in which women are legally permitted to assume the reins of government.—It is used by way of contradistinction to the Salic less, which precludes them from the privileges of sovereignty. There are only five states in Europe to which the operation of the Salic law does not extend — England, Russia, Spain, Portugal, and Denmark.

Gymam'diria, n. [Gr. genë, a female, and caser, a male.] (Bot.) In the system of Linnsua, a class of plants characterized by having the stamens, etyle, and stigma consolidated into a body, called a column.

This class is now chiefly represented by the order Orchidacze.

Gymam'dirian, or Gymam'dro, i.e., having the stamens, style, and stigma consolidated into a body called a column as in the Cypripedium, (Fig. 1221.)

Gyme'ciam. 4. Relating to wo-

1221.)
Gyne'cian, a. Relating to wo-

Gynecol'ogy, n. [Gr. gunž, a wo-man, and logos, a discourse.] (Med.) The doctrine of the nature and dis-

Fig. 1221

The doctrine of the nature and dis-cases of women.

Gymeoc'racy, n. [Gr. gunë, a woman, and katrës, power.] Female sway or rule; gymeoccracy. Gymobase, n. [Gr. gunë, and basis, a support.] (Bot.) The base of a style, or summit of a receptacle, on or around which two or more carpels are inserted, as in Rue, Sage, Geranium, &c. Gymoba'sic, a. (Bot.) Pertaining to, or having a gymoba'sic, a.

Gymophore, (jin'o-for,) n. [Fr., from Gr. game, and phore, (jin'o-for,) n. [Fr., from Gr. game, and phore, (jin'o-for,) n. [Fr., from Gr. game, and phore, bearing, from pherein, to bear.] The pedicle which in some flowers raises the putti above the stamens, as in the Pussion-flower.

mens, as in the Pusion-flower.

Gyöngyös, [j/on-j-oa], a town of Hungary, in the co.
of Heves, situated at the S. base of the Matra Mountains,
50 m. N.E. of Peeth. In this vicinity, the fine Viscoutaer wine is raised. Manuf. Wine and fruits. Pop. 16,500.
Gyp., (jip.) a. [Supposed to have been originally a jocose
application of the Gr. gaps, a vulture.] One who, as
famulus, or body-servant, waits upon a student at the
university of Cambridge, England.
Gww/meta. s. [Gr. gaps a vulture and glos an exple]

application of the Gr. gaps, a vulture.] One who, as familias, or body-servant, waits upon a student at the university of Cambridge, England.

Gyp'setos, n. [Gr. gaps, a vulture, and zioz, an eagle.]

(Zool.) See Lamersoriez.

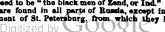
Gypoger'amus, n. [Gr. gaps, a vulture, and geranoz, a crane.]

(Zool.) See Scorrary.

Gyp'seous, n. [Fr. gypseaz, from Lat. gypsus.] Having, or partiaking of the qualities of, gypsum.

Gypsy, Gipsy, Gipsey, (jip'sez, n.; pl. Gyrsies.

(Hist.) A term derived from a corruption of the word Egyptians, and applied to a wandering race of people who are found distributed over many countries of Europe and Asia. They seem to have migrated into Europe from the East at the beginning of the 15th cent.; and first appeared in Paris in 1427, representing themselves as Christian penitents, driven out of Egypt by the Saracens. They were more than a hundred and twenty in number, and, according to a French writer, "They had their ears pierced, from which depended a ring of silver; their hair was black and crispy, and their women filthy to a degree, and were sorceresses who told fortunes." They and their people, who arrived in great numbers, obtained permission to remain in the kingdom; but after a short while, on account of their idiences and depredations, terrible orders were enacted in order to suppress them and drive them from the country. The name of Bohrmians was given to them by the French, probably because large numbers of them had come into France through Bohemia. Many, in consequence of the severity shown towards them, were driven back into the woods and forests of the same country; others passed into Germany and Hungary; while bands of others swarmed over the Pyrenees, and poured down on the plains of Spain. The names by which they greed any and in Germany, Zigeuner; all which words apparently spring from the same root, probably Ziscait, a term by which these people, and especially those of Spain, sometimes designate themselves, and the meaning of which is supposed to be "the black men of Zend, or



been banished. Their principal employment is trafficking in horses and curing the diseases of cattle. In Moscow, however, they have given up their wandering halita, inhabit stately houses, and go abroad in elegant carriages, being behind the higher orders of the Russians neither in appearance nor mental acquirements. The females are celebrated for their vocal powers. The Criefic females are celebrated for their vocal powers. The Criefic females are celebrated for their vocal powers and fitth, but are merry and fond of music. They are addicted to the remarks and smiths in a small way; the women tell fortunes, and both sexes are incorrigible thieves. In Wallachia and Moldwis they speak, Romany. In the gypsy language, Rom means a husband, and Romany the sect of the husbands. Although no country appears less adapted to this wandering life, which seems so natural to these people, than England, it is nevertheless true that they do exist there, and the covered cart and little tent of the Romany seldom remain more than a day or two in one place. When the gypsites first arrived in England, they were much persecuted. After a time their persecutors, and they are consisting of two straight lines dyspies. The condition, agy prompt. The condition, and acanthic, state, or habits of a gypsy.

Gypratem, The arts or practices of gypsies; takety.—The condition, agy remains an acute angle in the fesse point.

(Her.) An ordinary consisting of two straight lines drawn from any given part to the field, and meeting in an acute angle in the fesse point.

(Byronper.—The condition, gypsies part of the field, and meeting in an acute angle in the fesse point.

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(Byronper.—A literal", In (Bet.) Curied of several gyrons, at (Bet.) Curied of several gyrons, and are used as tood in the arctic regions. They be a few prompers of the field, an Bering life, which seems so natural to these people, than England, it is nevertheless true that they do exist there, and the covered cart and little tent of the Romany seldom remain more than a day or two in one place. When the gypsies first arrived in England, they were much persecuted. After a time their persecutors got weary of pursuing them, and at present they are considered in some degree as a privileged people. Although their way of life is unlawful, it is connived at, the law of England having discovered, by experience, that its utmost force is inefficient to restrain them from their habits. The male gypsies in England are all dealers in horses, and sometimes employ their idle time in mending the tin and copper utensils of the pessantry; the females tell fortunes. In all countries the gypsies are very handsome when young, but hideously ugly when they grow old. The climate of England is favorable to beauty, and in no land is the appearance of the gypsy so preposeesing as in that country. The dialect of the Romany which they speak is tolerably pure, but mixed with English words. Dabbling in sorvery has always been a profession of the gypsies in all times and countries, and is especially the province of the females. They are divided into classes and tribes in England, and the principal gypsy tribes now in existence are the Stanteys, whose haunt is the New Forest; the Londia, who are fond of London and its vicinity; the Coopers, who have appropriated the north of England, and Yorkshire especially. Much interesting information respecting the G. may be found in Geo. Borrow's Romany Rye, and The G. of Judau, by D. MacRitchie, (Lund. 1886.)

Gypsiferens, a. [Lat. gypsum, and ferre, to bear.] Producing or containing gypsum.

Gypsum, (figraum), n. [Gr. gupsos, especially the calcined mineral perhaps from all earth and heres to

gypsum.

gypsum., (jip'sum.) n. [Gr. gupsos, especially the calcined mineral, perhaps from gē, earth, and hepseo, to cook.] (Min.) A hydrous sulphate of lime, which crystallizes usually in right rhomboidal crystals with levelled sides. It occurs also in laminated masses, in fibrous masses with a satin lustre, and in radiating forms consisting of narrow lamines, also granular and compact. Color usually white, but sometimes gray, reddish, brownish, yellow, blue, and even black. Sp. gr., when pure, 2314-2328. Omn. Sulphuric acid 46:5, lime 32:6, water 20-9. G. occurs in extensive beds in several of the U. States, narticularly in N. York, Ohio, Illipole, Virginia. water 20.9. G. occurs in extensive beds in several of the U. States, particularly in N. York, Ohio, Illinois, Virginia. Tennessee, and Arkansas, and is usually associated with salt springs. It occurs especially in connection with limestones and mariytes or clay beds. It is a product of volcances found where sulphur gases are escaping, being formed from the sulphuric acid generated and the lime of decomposing lavas. When lime is present it is formed by the decomposition of pyrite. It occurs about sulphur surprings where sulphurented hydrogen is emitted and is by the decomposition of pyrite. It occurs about sulphur springs where sulphuretted hydrogen is emitted, and is found in sea-water. In the Mammoth Cave G. occurs in the form of rosettes or flowers, vines or shrubbery, when burned and ground, it is called PLISTER or PRAIS, (g. v.) The transparent foliated G. is called SHIRNITS, (g. v.) The white and delicately fibrous variety is described under the head of SATIN SPAR (g. v.); and the flae-grained, white or light colored varieties, under the head of ALBLARSTER (g. v.). G. is ground up and applied to soils as a fertilizer. When destitute of water it is called ANMYDRITE (g. v.).

called ANHYDRITE (q. v.).

Gyp'sum, in Ohio, a post-office of Ottawa co.

such that if the whole mass were concentrated therein, the moment of inertia with respect to the corresponding axis of gyration would remain unaltered. The circle described by such a point is called a circle of gyration, its radius the radius of gyration.

Gyratory, a. Moving circularly.

Gyre, n. [Fr., from Lat. gyrus; Gr. guros, a ring.] A circular motion; a circle described by a moving body; a turn.

Gyrateom, n. (Zow.) See Generaton.

Gyranides, n. pl. (Zow.) A family of aquatic Beetles, the type of which is known under the name of Whirtigig, or Water-fiea, from its peculiar motions. They are in general of small or moderate size; and are to be seen, from the first

from the first fine days of spring till the end of au-tumn, on the surface of quiet waters. and even upon that of the sea, often apreat numbers, and ap-



pearing like Fig. 1222.—WHIRLIGIG, OF WATER-FLEA. brilliant points.

brilliant points.

They are active swimmers, and curvet about in every direction. Sometimes they remain stationary without the slightest motion; but no sooner are they approached, than they escape by darting under the surface of the water, and swimming off with the greatest agility. The four hind legs are used as ears, and the anterior ones for seizing the prey: when they dart beneath the surface, a bubble of air like a silvery ball remains attached to the hind part of the body. When seized, they discharge a milky fluid, which spreads over the body, and probably produces the disagreeable odor which they then emit. There are several species found in this country, but it is not necessary to describe them separately. These beetles not necessary to describe them separately. These bestles are almost the only water-insects which exhibit a brilliant metallic lustre,—a peculiarity dependent upon the bubbts of the insects which generally swim upon the

habits of the insects which generally swim upon the surface of the water.

Gyrog'onites, n. pl. [Gr. guros, a circle, and genein, to bring forth.] (Ful.) Bodies found in fresh-water deposits; originally mistaken for small shells, but after wards ascertained to be the sea-vessels of plants of the

yroid'al, a. [Gr. gur in arrangement, or form. [Gr. guros, and eidos, a form.] Spira

fish.] (Pul.) A genus of fossil ganoid fishes found in the new red sandstone, and in the bone-beds of the lias

ly'rolite, n. (Min.) A mineral occurring in concretions, of a white color, vitreous to pearly lustre, and composed of silica 60:70, alumina 1:43, magnesia 0:18, lime 33:24, water 14:18. Found in the Isle of Skye and in Nova Scotia.

in Nova Scotis.

Gyro'mae, n. [Gr., from guros, round.] A circular turn; a turning round.

Gy'romancy, n. [Gr. guros, a circle, and manteia, a prophecy.] A kind of divination performed by a sooth-sayer by means of a circle. The soothsayer usually describes a circle variously marked with letters, and then walks around it with various ceremonies, saying magic words and making mysterious motions, the more effectually to deceive the uninitiated.

an axis, if any force tends to make it rotate about another axis, it will not rotate about either the old or the new axis, but about an intermediate one. In 1851, Signor Antinori, director of the museum at Florence, first brought the subject of the apparent displacement of the plane of vibration of the pendulum before the Academicans del Cimento; and on the 3d of February, in the same year, M. Foucault communicated his discovery to the Academy of Sciences at Paris, and experimentally proved the rotation of the earth by his well-known pendulum experiment and his G. In the first case, if a pendulum is supposed to be suspended over either pole of the earth, and set in oscillation, it is evident that a spectator carried round by the rotation of the earth would so pass alternately under the two ends of the arc of the vibrating pendulum, that its plane of oscillation would appear to him to make a revolution from east to west in the same time as the earth revolves from west to east. If, then, the pendulum be supposed to be similarly suspended over the equator, it is evident that no change in the plane of oscillation can take place. But if the pendulum is suspended at any intermediate latitude, the rotation of the earth round the polar axis may be considered as the resultant of two rotations, one round an axis passing through the place of observation, and another round a perpendicular axis. The rotation another axis, it will not rotate about either the old or latitude, the rotation of the earth round the polar axis may be considered as the resultant of two rotations, one round an axis passing through the place of observation, and another round a perpendicular axis. The rotation about the latter axis cannot, however, affect the apparent motion of a pendulum suspended at the equator of that axis which is the great circle through the place of observation. The pendulum will, therefore, only be affected by a motion around the axis through the place, and this motion will vary as the sine of the latitude. The G., as an instrument, is an application of the principle in dynamics, that if a mass be set in motion freely in space, it will preserve its original plane of rotation, unless it be disturbed. M. Foucault presented his account of the G. to the Academy of Sciences in 1852; and in his apparatus there is a fixed plane below which the earth turns, and as the spectator is carried with it, causes it to appear to him as if the plane of the discatually revolved. The experiments which can be performed with the G. illustrate the following principles: First, that matter in motion, as well as matter at rest, possesses inertia. Secondly, that the power possessed by the shots from filed guns to resist the force of gravity, is due to the gyratory motion given to the ball. Thirdly, the orbital and axial motions are connected intimately, and mutually affect each other's speed. Fourthly, that the apparent stable equilibrium of bodies not stable, as of a spinning-top saleep, is due to their rotation. Byrose, (Firōs,) a. Bent like a crook.

rotation.

Gyrose, (ji'rōs,) a. Bent like a crook.

—v. a. To shackle; to chain; to fetter.

Gyrostemo'neee, n. pl. [Or. guros, round, and stemon, filament.] [Bot.) A small order of plants, closely allied to the Euphorbiace. It is distinguished from that order by having unisexual flowers, the carpels arranged round a central column, two suspended seeds in each carpel, and a hooked embryo. The uses of these plants are not known.

Gyu'las, a town of Hungary, in the co. of Bekes, 16 m.

N.W. of Zarand. Manny, Oil and wine. Pop. 18,000.

Gyve, (jie,) n. [W. ge/yn., a fetter.] A shackle for the leg; (mostly used in the plural.)



## G.—SECTION II.

## GADS

GALL

G: in Oklahoma, a N. W. co.; is intersected by the Canadian and Washita rivers. Surface, undulating; sod, fertile, red sandy loam. Products, corn, wheat, cotton and potatoes. Stock raising is the chief occupation. Cap. Arapahoe. Pop. (1887) about 6,000.
Ga'belents, wen der, Hans Conon, philologist, born at Altenburg, Germany, Oct. 13, 1807; studied at Leipzig and Göttingen, making a specialty of the Chinese, Arabic, and Finno-Tartaric languages. He was familiar with eighty languages, and published: Elements de la Grammaire Mandschone; Die Melaneischen Spracken; and a Manchou translation of the Chinese works, See-chu, 18th.-king and Shi-king, besides other works. Died in Sept., 1874.
Ga'belsbergeer, Franz Xaver, inventor of the shorthand system largely used in German-speaking coun-

Ga'belsberger, Franz Xaver, inventor of the shorthand system largely used in German-speaking countries; born at Munich, Feb. 9, 1789; acted as ministerial secretary in the statistical office of the finance department of the Bavarian Civil Service from 1826 to 1849; published Anleitung mer Deutschen Redezeichenkunst oder Stenographie, an account of his system. D. Jan. 4, 1849. Gab'lentz, Luwie Karl Wilmelm, Baron von, an Austrian field-marshal, born at Jena, in 1814. After serving in the Saxon army for some years, he joined the Austrian service, distinguished himself at Custozza, took a brilliant part in the Hungarian war, galuling distinction at Magenta, and, by covering the retreat of the Austrian army from the field of Solferino, preserved it from annihilation. He next served in the Schleswig-Holstein campaign; and in the war with Pruesia (1866) had command of the 8th and 10th corpe in the disastrous defeat at Königgrätz. In July, 1869, he was appointed

had command of the 8th and 10th corps in the disastrous defeat at Königgrätz. In July, 1869, he was appointed commander-in-chief in Hungary. He retired in 1871, and, having lost seriously in stock speculations, shot himself, Jan. 23, 1874.

Gaboom' or French Congo. (Geog.) A French colony in western Africa, between the Atlantic and the Middle Congo, and embracing the region of the Gaboom river, a stream or estuary which extends 40 m. inland with a width of from 6 to 12 m. G. extends along the coset from Lat. 5° 8. to about 2° N.; is bounded inland by the Congo and Mobangi rivers, and touches the German colony of Cameroons on the north. The area, estimated at over 200,000 sq. m., is uncertain, the north-eastern boundary not being defined. The climate is extremely unhealthy near the coast, but is better on the inland plateau, which is covered with extensive forests, the slode of the gorilla. The coastal and parts of the interior regions are fertile and rich in products, including gum, guitta-perchap, palm-oil, timber, ivory, &c. Coffee, vanilla, sugar-cape, and cotton are cultivated. ing gum, gutta-percha, palm-oil, timber, ivory, &c.
Coffee, vanilla, sugar-cane, and cotton are cultivated.
Sheep and goats are numerous, but the former yield no Sheep and goats are numerous, but the former yield no word. The population, mainly of the Bantu stock, is estimated at 7,000,000. The French gained rights on the estuary of the Gaboon in 1839; made a settlement in 1845, and 20 years afterward extended their control to the Ogowé. The interior region was first explored by De Brazza in 1876-78, and through his energy and enterprise the country became known, and the French claim was extended. There are now numerous stations in the coast region, the principal being that of Libreville, on the Gaboon.

ville, on the Gaboon.

Gaboriau', Emile, novelist, born at Saufon, France, in 1835. He began his literary career by writing stories of military and fashionable life for journals; afterward was successful in humorous sketches, and later acquired fame by his detective stories. His works include: L'Affaire Lerouge; Le Dossier; Le Orime d'Orcival, &c. Died Sept. 28, 1873.

Gachard', Lours Prosper, born at Faris, March 12, 1800; keeper of the archives at Brussels for the most of his life; edited from the national archives of Spain and Belgium the correspondence of William the Silent, Philip II. Margaret of Austria, and Alba. Author of:

and Belgium the correspondence of William the Silent, Philip II., Margaret of Austria, and Alba. Author of: Les Troubles de Gand Sous Charles V.; Retraite et Mort de Charles V.; Ac. Died Dec. 24, 1885.

Giade, NIELS WILHERM, musician and composer, born at Copenhageu, on Feb. 22, 1817; performer in the royal chapel; studied at Leipzig producing his first symphony (in C minor) there. In 1844, in the absence of Meudelssohn, by whose invitation he first came to Leipzig, he took charge of concerts in that city; afterwards became first director of the Conservatory in Copenhagen. He composed eight symphonies, five overtures, four cantatas, and several sonatas; a lyrical drama, Comala; an opera, Mariotta, etc. Died Dec. 22, 1890.

Giadi's dem., James, soldier and statesman; born at Charleston, S. C. May 15, 1788; graduated from Yale

College; entered the army as lieutenant (1812), serving in Canada, in the Seminole campaign of 1818, and as an aide to Gen. Jackson; was appointed minister to Mexico (1863), and negotiated the Gadeden Purchase for the U. S., by which was acquired, for \$10,000,000, a large tract now included in Arizona and New Mexico. Died Dec. 26, 1858.

tract now included in Arizona and New Mexico. Died Dec. 28, 1858.

Gaff'mey City, or Gaff'mey, in Sould Carolino, a post-town of Spartanburg co., 28 m. N.W. of Yorkville, on the Southern R. R.; has manufactures of canned goods. Pop. (1890) 1,631.

Gags, n. (Surg.). An instrument for keeping the jaws apart during an operation.

(Stage Stang.) A word, phrase or speech interpolated into his part by an actor, usually having some local or personal application.

Gagge, Lyman J., banker and pailanthropist, born in De Ruyter, N.Y., June 28, 1836; educated at an academy at Rome, N. Y. Began his career at fourteen as assistant in the Rome post-office; subsequently was mail agent on the Rome, Watertown & Ogdensburg Railroad, and (1854) clerk in the Oneida Central Bank. After many vicissitudes he became connected with the Merchauts Saving, Loan and Trust Company of Chicago; and in 1868 with the First National Bank of Chicago, of which in 1891 he became president. The success of the World's Columbian Exposition was largely due to his enterprise, he being one of three men who pledged to it \$10000000 on behalf of the city of Chicago. World's Columbian Exposition was largely due to his enterprise, he being one of three men who pledged to it \$10,000,000 on behalf of the city of Chicago. He also served as president of the Banker's Section of the World's Congress. Reforms for the improvement of the condition of the laboring classes have found in him a sympathizer and worker, and he has taken an active part in the improvement of the city of Chicago. In 1897 he was appointed Secretary of the Tressury by President McKinley. He received the honorary degree of LL.D. from Beloit College, June 22, 1897. Gagee, Mathida Joslyn, born in Cicero, N. Y., March 24, 1820; educated at Hamilton Seminary, De Ruyter Academy, and Clinton Liberal Institute; advocate of the woman suffrage movement; corresponding secre-

24, 1820; soucated at Hamilton Seminary, be Ruyter Academy, and Clinton Liberal Institute; advocate of the woman suffrage movement; corresponding secretary of the New York State Woman Suffrage Society (1869-70), and president for a term of nine years; also president of the National Woman Suffrage Association, and of the Woman's National Liberal Union; was one of the editors of the History of Woman Suffrage; edited and published The National Citizen; author of Woman's Rights Catechism; Woman as an Inventor, &c. Gage, Sixon HENRY, B. S., physiologist, born in Maryland, N. Y., May 20, 1851; educated at Cornell University; became instructor there, and later (1889) was made associate professor of Physiology. In connection with Prof. B. G. Wilder, he has published Anatomical Technology; also contributed to scientific periodicals, and is the author of The Microscope and Histology; was collaborator on Foster's Encyclopedia, Medical Dictionary, &c. Gagg-Taw, s. Anything intended to close a debate before the proper time, prevent free discussion, or hinder the right of petition.

Gagg-recim, s. (Sudd.) A rein passing over runners attached to the throat-latch, for pulling the bit up into the corners of the horse's mouth.

the corners of the horse's mouth.

Gaillar'dia, s. [Gaillard, French botanist.] (Bot.)
A genue of composite plants, of the Aster family, producing large and fragrant yellow or reddish-purple

Gaines, Myra Clark, a celebrated heiress and litigant, was born in New Orleans in 1805. She was the daughter of Daniel Clark, an Irishman who emigrated to New Orleans, about 1799, and inherited a vast estate from an uncle residing there. Clark died in 1813, leaving a will which gave all his property to his mother. He was known to be the father of two daughters, one of whom was Myra, but they were supposed to be of illegitimate birth. In 1830 letters were found giving the details of his marriage to Myra's mother, a handsome French woman, and in 1832 other letters were discovered that gave an account of a will which recognized Myra as his legitimate heir, and bequeathed her all the property, then valued at several millions. From nized Myra as his legitimate heir, and bequeathed her all the property, then valued at several millions. From that time to the day of her death Myra was continuously "in court." Her legitimacy and legal rights of heirship were established in the Supreme Court of Louisiana in 1856, which decision was subsequently approved by the U.S. Supreme Court, the fact of her father's secret marriage in Philadelphia having been substantiated. The struggle to secure possession of the estate was begun by filing a bill in equity in the U.S.

Supreme Court in 1856, a favorable decision being rendered in 1867. Owing to the law's delays, the filing of cross-suits, etc., the claimant received up to the time of cross-suits, etc., the claimant received up to the time of their death only about one sixth of the \$35,000,000 to \$40,000,000, which the estate was thought to be worth, and this was practically swallowed up by the costs of suit. She married W. W. Whitney, in 1832, and after his death married (1839) Gen. Edmund Pendleton G. (1777-1849), a hero of Fort Erie and the Seminole War. Mrs. G. died in January, 1885.

Gaines, in Texas, a. N. W. co.; area, 1,500 sq. m. Unorganized. Pop. (1897) about 160.

Gainete'ss, s. [Let., name of a sea-nymph.] A cotton fabric with blue and white stripes.

Gale'ma, in Kassea, a city of Cherokee co., 19 m. S. E. of Columbus, on St. L. & S. F. and K. C., Ft. S. & M. R. Rs. Large quantities of lead and zinc are mined here, and stamping and smelting works are in operation. Pop. (1895) 2,882.

Gal'lastin, s. (Chem.) A substance obtained from coal-tar, used as a dye. It forms small crystals, which are red-brown by reflected, and metallic green by transparent light. It is nearly insoluble in colohol; with annuonia it vields a violet color. It dissolves in canstic Supreme Court in 1856, a favorable decisiou being res

sightly soluble in ether, very soluble in alcohol; with anmonia it yields a violet color. It dissolves in caustic potash with a red color, which is turned blue by excess

or aikan. Gal'let, n. Al mason's chisel. A bit of stone struck from the block by a

v. a. To fill the joints (of a wall) with small pieces of

Galliffet, Gaston Alexandre Auguste, Marquis de: Galliffet, Gaston Alexandra Augusta, Marquis de; soldier; born in Paris, June 23, 1831; served in the army and was made general of brigade, Aug. 30, 1870; subdued the revolting tribes in Africa (1872-73) and on the reorganization of the army became commander of the third brigade of infantry of the Eighteenth Army Corps, and of the subdivision of the Department of the Cher; was later made general of division. As a cavalry officer he ranks among the foremost in the service. Gall'illum, s. [From Gallia, in honor of France.] (Chem.) A metallic element (symbol Ga., atomic weight 70), discovered in 1875 by a French chemist, Lecoq de Boisbaudran, though predicted as ekaluminum by Mendelejeff when, in announcing his Periodic Law, he showed that an element must exist having intermediate properties between aluminum and indium. It

he showed that an element must exist having intermediate properties between aluminum and indium. It is a triad element. It is obtained by dissolving zinc blende in sulphuric acid and placing in the solution plates of zinc till the disengagement of hydrogen becomes slow, but is still perceptible, by which means the greater portion of the various metals contained in the ore is precipitated; the clear filtered liquid is then heated with a large excess of zinc; the resulting gelatinous precipitate, consisting chiefly of alumina, besicalts of zinc, and gallium, is redissolved in hydrochloric acid and again heated with zinc, which gives a precipitate in which the G. is more concentrated. This precipitate is redissolved in hydrochloric acid, the solution is treated with hydrogen sulphide, and the filtered liquid, after the expulsion of the H<sub>2</sub>S., is fractionally precipitated with ammonium carbonate, till the solution of the resulting precipitate in hydrochloric acid no of the resulting precipitate in hydrochloric acid no longer gives any indication of the presence of G. when examined by the spectroscope. The precipitates are collected and dissolved in sulphuric acid, and cautiously collected and dissolved in sulphuric acid, and cautiously evaporated till the free sulphuric acid is expelled; the recidue, when cold, is digested with water till it is dissolved, the nearly neutral solution is boiled, the basic gallium sulphate is precipitated and filtered while hos, and then dissolved in a small quantity of sulphuric acid, treated with excess of potash, till the precipitate is redissolved and then precipitated by a stream of CU<sub>p</sub>. Finally the G. oxide is redissolved in the smallest quantity of sulphuric acid, the solution mixed with excess of slightly acid ammonlum acetate, then H<sub>2</sub>S agas is passed through the liquid; the filtered acetic solution is diluted with water, and heated to boiling, whereby the greater part of the G. is precipitated as solution is diluted with water, and heated to boiling, whereby the greater part of the G. is precipitated as oxide; this precipitate is filtered off hot, washed with boiling water and redissolved in sulphuric acid, and the solution mixed with a slight excess of potash and filtered, whereby a pure alkaline solution of G. is obtained. Metallic G. is gotten by the electrolysis of this alkaline solution, platinum electrodes being used, and the positive electrode being larger than the nega-

tive on which the metallic G. is precipitated, which is tive on which the metallic G. is precipitated, which is detached by dipping the platinum plate in warm water and bending it backward and forward. G. is a silver-white neetal, which melts at 86° F. It is hard, very slightly malleabe, and leaves a bluish-gray trace on paper. When melted it adheres to glass. It does not tarnish in the air. Its specific gravity is 5.95. It gives a brilliant violet line in the spectrum. When heated in the air it oxidizes on the surface and does not volatilize. It dissolves in hydrochloric acid with disensement of hydrogen. It is scarcely attacked by

titise. It dissolves in hydrochloric acid with disengagement of hydrogen. It is scarcely attacked by nitric acid in the cold; but when heated it dissolves slowly, with evolution of nitrous fumes. It forms salts. Gallivant', v. s. (Perhaps a corruption of gallant.) To roam about for pleasure, especially with or after one of the opposite sex; to flirt.—To run after trivial matters. Gallect'mans, s. (Chos.). A coal-tar product used for dyeing cotton, silk or wool a violet color; called the "new fast-violet."

Galloway, Charles Berrs, clereyman, born in Kos.

"new fast-violet."

Gal'loway, Charles Brits, clergyman, born in Kociuako, Miss., Sept. 1, 1849, and educated at the University of Mississippi. He held various positions, including a professorahip in Madison College, Mississippi, was pastor in the Methodist Episcopal church, and elected bishop in 1886; delegate to the Centennial Conference in Baltimore (1884), and to the Ecumenical Conference in Washington, D. C. (1891). Author of Methodism, a Child of Providence; Hundbook of Probition, &c. Galeot', s. (U. S. Siang.) A noisy, awkward or uncouth fellow; a rowdy.

Galt, John, novelist, born at Irvina Scotland in 1770.

uncouth fellow; a rowdy. His most esteemed works comprise the Agrahire Legales; Amsals of the Purish; The Provost; The Entail; Laurie Todd; and a Life of Lord Byron. Died in 1839.

Galt, in Missouri, a post-town of Grundy co., 12 m. N.E. of Trenton, on Q., 0. & K. C. and C., M. & St. P. R.Ra.; has saw and grist mills and axe handle factory. Pop. (1800). 652

has saw and grist mills and axe handle factory. Pop. (1890) 653.

Gal'ton, Francia, an explorer and author, born at Birmingham, England, in 1822; for his explorations in the western regions of South Africa, received the gold medal of the Royal Geographical Society. His Art of Trarel, or Shifts and Contributors in Stonge Constrict has been warmly appreciated by explorers, pioneers, and emigrants. In 1879 he published a remarkable work entitled Hereditary Genins, its Lunes and Consequences, and has since published several books, including two on Fisger Prints (1892-93).

Gambet'ta, Lion, statesman, born at Cahors, France, of Genoese ancestry, October 30, 1838. He became a member of the Paris bar in 1859, and soon acquired fame as a forensic orator, being much employed in political causes both in the capital and the provinces, while he grew into great popularity among certain classes of the Parisians on account of his radical and extreme Republican opinions. In March, 1860, on the occasion of the government prosecution of the journal "Emancipation" at Toulouse, G. received quite an



Fig. 2904.—LÉON GAMBETTA

ovation in the south of France. At the general election ovation in the south of France. At the general election held in the same year, he, as a representative of the "irreconcilable opposition," was returned by the constituencies of both Paris and Marseilles, and elected to take his seat for the latter. In Jan. 1870, he distinguished himself by violently attacking the Ollivier ministry, declaring that the day would come when the majority of the people would, without appealing to force, succeed in establishing a republic. On the fall of the empire and the consequent formation of the government of the National Defence in Sept. 1870, he was nominated Minister of the Interior, and soon government of the National Defence in Sept., 1840, he was nominated Minister of the Interior, and soon showed that he possessed administrative abilities of a high order. When a serious misunderstanding took place between the Delegate Government at Tours and the National Defence Committee in Paris, regarding the contemplated election of deputies, G. was selected by his colleagues to proceed to the former city and explain the position of affairs in the capital. Accordingly he left Paris on October 7 in a balloon named the "Armand-Barbès," accompanied by a secretary and an aëronaut, passed safely over the Prussian lines, and reached Rouen and the evening. Proceeding without delay to Tours, he there assumed the direction of affairs, and for some months was virtual dictator of all those delay to fours, is there assumed the direction of analits, and for some months was virtual dictator of all those provinces of France which were free from the German invaders. He unyed the people to continued resistance, raised the Army of the Loire, and after the enforced removal of the Delegate Government to Bordeaux, he issued a proclamation advocating wer d outronce, and resistance even to absolute exhaustion. It is scarvely necessary to add that his dream of ridding the French soil of the German hosts was not realized, and that his volunteer armies were completely crushed by the well-trained forces of the enemy. On Feb. 6, 1871, MM. Arago, Garnier Pagés, and Eugene Pelletan, members of the Paris government, arrived at Bordeaux, bringing with them a decree signed by all the members of the government, which annulled that of G., by which certain classes of electors were disqualified as candidates for the Assembly. In consequence of this censure, G. at once resigned his functions and proceeded to Spain, where he resided for some time in seclusion. He returned to France in 1872, and obtained a seat in the Assembly, and at once become the leader of the Extreme Left. In 1879 G. was elected Position of the He returned to France in 18/2, and outsined a seat in the Assembly, and at once become the leader of the Extreme Left. In 1879 G. was elected President of the Chamber of Deputies, and became Prime Minister in Nov., 1881, which office he resigned in Jan, 1882. He remained, however, the idol of a very large part of the Republican element, but in the height of his fame and

Nov., 1881, which office he resigned in Jan., 1882. He remained, however, the idol of a very large part of the Republican element, but in the height of his fame and power was shot, whether by accident or design is not yet publicly known, on Nov. 27, 1882, and died Dec. 31, of the same year.

Gamme Preserves' in the U.S. Within recent years much attention has been given to the preservation of the larger game animals of the U.S., numerous private parks for this purpose having been established, several extensive government preserves formed, and much more attention given to the enforcement of the game laws than in former years. Attempts have from time to time been made to obtain State action looking toward the preservation and breeding of game animals and birds, but with no effect except in New York, and there only in a limited degree. The general government, however, as above said, has made some important movements in this direction, so far as the national parks of the Yellowstone and the Yosemite are concerned. Here an earnest effort has been made to preserve the rapidly disappearing large animals, such as the buffalo, the elk and the moose. [See Burralo.] Unfortunately it has so far proved impossible to prevent the depredations of lawless poachers upon the herds in these parks, and it looks as if the efforts of individuals will have to be trusted to for the preservation of these noble animals. Many private parks have been established in different parts of the country for this purpose, particularly within recent years, and with very encouraging results. Deer parks have existed on the estates of wealthy proprietors in this country through most of its history; but it was not until about 1860 that a systematic attempt was made, by Judge J. D. Caton, an enthusiastic sportsman, to bring together in a park at Ottawa, III., nearly all the varieties of our native game, except the mouse and caribou, which need a wider range and wilder country. Others initiated this palseworthy effort, but it was not until the establishmen Others imitated this praiseworthy effort, but it was not until the establishment of Austin Corbin's preserve near Newport, N. H., that game preservation was undertaken on a large scale. This preserve, known as Blue Mountain Forest, is the largest private cerablishment of the kind in the U. S. It consists of 36,000 acres, inclosed by a woven wire fence 8 feet high, and forms an oblong tract, 12 by 5 miles, through which passes a mountain range 3,000 feet in height. There is no finer game preserve in the world, and none better adapted for all kinds of animals. The more timid game find excellent coverts in the wooded slopes and the forest growth of the lowlands, while the buffalo and elk graze contentedly in the extensive meadows, all the animals living as in their native wilds, even the moose, one of the shyest of wild animals, which finds places of seclusion amid the obscure thickets of the mountain acclivities. The animals find abundant food and need no shelter, except in the case of the young buffaloes. The result of the judicious management of this preserve has been a rapid increase in its wild animals of all kinds. It was enclosed in 1889, and all its large animals show a healthy increase except the antelopes and carlbous, which for some unexplained reason failed to thrive. This successful experiment has been followed by others. Litchfield Park, established in 1893, is an enclosure of 9,000 acree in the Adirondacks, which contains now some 200 wild animals. Dr. W. Seward Webb has also a 9,000-acre preserve in the Adirondacks, while the Adirondack Tiniter and Mineral Company has there a park of 30,000 acree, well stocked with many varieties of wild animals. Numerous smaller game parks in many a shooter preserve in the Autoronaces, while the Adirondack Timler and Mineral Company has there a park of 30,000 acres, well stocked with many varieties of wild animals. Numerous smaller game parks in many parts of the country might be named, nearly all of them of recent establishment, and highly promising in their results. Not only quadrupeds, but game birds as well, are cared for in these preserves, the English and Mongolian pheasants, the black cock, the capercalize, the prairie chicken and wild turkey having been introduced, with others of less distant origin. These efforts have yielded results of such encouragement that the preservation of our game animals now seems assured. Game'mest, hence the titler of the Greek language, having the sound of our g, hard.

Game'mest, Henny, geographer; born in Bath, Me, Aug. 24, 1846; studied at Lawrence Scientific School, Hooper Mining School, and Harvard; was geographer of the tenth and eleventh censuses, and since 1882 has

een chief topographer of the U. S. Geological Survey. As an author he has made extensive contributions to the publications of the Hayden and U. S. Geological Surveys, cenns publications, &c., has also published a Dictionary of Altitudes and a Musual of Topographic Sur-

teging.

Barray, Janos, Hungarian poet; born at Szegszárd, in 1812; he was a student of the masterpieces of German literature, and has contributed to Hungarian literature a number of dramas, mostly of a historical character. They include: Cuib; Arbicz; Országk, &c. He also published Arpidok, a poetical version of the historical elegends of Hungary; and Cadir, an epic poem. He was a resident of Pesth, where he was engaged in the University library. Died Nov. 15, 1853.

Garr'barge, Utilizan'tion of. Among recent subjects of interest to the public, that of the disposal of garlange, or kitchen refuse, is not the least. It can be very easily managed in rural districts and small towns, by feeding to swine; this method has been largely

yery easily managed in rural districts and small towns, by feeding to swine; this method has been largely practiced in cities, notwithstanding its inconveniences, but has now generally been discarded in the larger cities in favor of more acceptable methods. In some cases, as in that of Philadelphia, the difficulty is overcome by burning the garbage in suitably constructed furnaces. This, however, presents the disadvantages of the waste of a useful material and the voiding into the air of an odor from which the best constructed furnaces are not free, and which certainly does not remind one of "Araby, the blest." In other cities the garbage is utilized in various methods. In St. Louis, for example, the water is removed by the aid of superheated steam, and the oil and grease (about 15 per cent. of the remainder) is taken out by the use of naphtha. This material is utilized in soap making, for which it proves

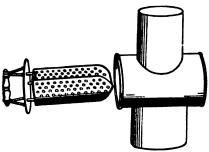


Fig. 2905.—RITCHEN GARBAGE INCINERATOR.

regy well adapted. The remaining substance, containing practically all the nitrogen, phosphates and alkalies of the garbage is coarsely ground and sold to farmers at a good price as an excellent fertilizer. This and other methods render this material a source of profit instead of waste. It is estimated, for example, that New York and Brooklyn yield daily about a thousand tone of garbage, from which a large quantity of oils and fertilizing material might be derived.—An economical method of disposing of the garbage in the kitchen itself has been devised. It consists of a perforated scoop which fits and closes a cylinder inserted into the course of the stovepipe. The garbage, as fast as made, is placed in this scoop, which is thrust into the cylinder, and is thoroughly dried and carbonized by the heat and smoke of the fire, all odors passing up the chimney. The charcoal produced will then serve as a useful fuel. Many of these are in use in Boston and its vicinity.

Gar'efa, Calixro, Cuban soldier and patriot, was born at Bayamo, Cuba, Aug. 4, 1832. In the revolution of 1868 he was a generous contributor to the funds and took command of a body of volunteers, displaying marked military ability, and rising to the rank of major-general; had command of the Eastern Department, and under him the Maccos and other leaders learned the art of war. In 1873, being surprised, with only a body-guard, by a column of Spanish troops, G. fought desperately until all hope of escape vanished; the then placed the muzzle of his revolver beneath his chin, and discharged its last chamber. The bullet came out between the eyebrows, inflicting an all but fatal wound. After lingering between life and death for months, G. was sent to Spain as a prisoner of war, returning to America after the peace of 1879. In the same year he took a small expedition to Cuba in the hope of renewing the struggle. This failed, and he was again banished to Spain. Near the end of 1895 he cluded the authorities, made his way to New York and thence to Cuba, where, as to Spain. Near the end of 1880 he ended the authors, then made his way to New York and thence to Cuba, where, as a major-general, he has cooperated with Gomes in the Department of the East.

Gomez in the Department of the East.

Gar'den C'ity, in Kansa, a city, cap. of Finney co. on A., T. & S. Fé R. R.; has manufactures of plows and wind-mills. Here are extensive irrigating works, this being the center of the irrigation system of southeastern Kansas. Pop. (1897) about 1,500.

Gar'diner, Sanvel. Rawson, historian, born at Ropley, Hampshire, Eugland, March 4, 1829; educated at Winchester and Christ Church. Oxford, taking a first-class degree; held the chair of Modern History at King's College, London, which he resigned to complete the great historical work he had commenced, covering the period of the first two Stuart kings of England. This work, which had been given to the world in installments, was collected and republished in

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ten volumes (1883-84) as a continuous history of England from 1833 to 1642. Other works are: The Thirty Years' War (1874), and The First Two Stuarts and The Paritims Revolution (1875), in Epochs of Modern History.

Gasrd'mer., George, botanist and traveller, born in Glasgow. Scotland, in May, 1812; educated at University of Glasgow. Member of the Linnscan Society and publisher of monographs on Russillan betary: ausginof Glasgow. member of the Linnsean Society and pul-lisher of monographs on Bazilian botany; superin-tendent of the botanical garden of Ceylon. Afterward travelled in India, and edited the Calcutta Journal of Natural History. Published Travels in the Interior of Brusil, also numerous botanical papers. Died in Ceylon, March 10, 1849.

March 10, 1849.

Chardmer, in Minota, a post-village of Grundy co., 65 miles S.S.W. of Chicago, on C. & A., and C., C., C. & S.L. R. Ra. Has some local manufacturing. Coal is mined here. Pop. (1890) 1,094.

Chardmer, in Kansaa, a post-village of Johnson co., 30 miles S.W. of Kansas City, on A., T. & S. Fé R. R. Pop. (1990) 15.

(1890) 515.

(1800) 515.

Gardiner, in Massachusetta, a post-town of Worcester co., 15 miles W. of Fitchburg, on Fitchburg R. R.; has extensive manufactures of chairs, palls, and tubs. Pp. (1805) 9,182.

Garffield, in Colorado, a N. W. co.; area, 3,250 sq. m.; is intersected by the Grand River. Surface, mountainous, with fertile valleys. Mis. Gold, silver, and coal. Coal mining, stock raising, and farming are carried on extensively. Cap. Glenwood Springs. Pop. (1809) 4,478.

Garffield, in Norbuska, a N. cen co.; area, 576 sq. m. Watered by North Loup river and Cedar creek. Surface, nudulating prairie; soil, fertile. Cap. Burwell. Pop. (1893) 1,659.

Garffield, in North Dakota, a W. co.; area, 918 sq. m. Unorganized. Pop. (1897) about 200.

Garffield, in Volkahoma, a N. co.; drained by Red, Rock. Ephraim, and Turkey creeks. Surface, nolling; soil, dark, with reddish subsoil; large belt of timber in the northwest. Cap. Enid. Pop. (1897) about 16,400.

Garffield, in Vash a S. co.; area, 1,364 sq. m.; drained by Escalante river and smaller streams. Surface, nonvasions with rich, fertile valleys. Has coal and plenty of good timber. Prod. Wheat, oats, and barley; much cheese is made. Cap. Panguitch. Pop. (1895) 2,888.

Garffield, in Washington, a S. E. co.; area, 672 sq. m.; bounded on the north by Snake river and watered by its tributaries. Surface, hilly; soil, fertile. Cap. Pomeroy. Pop. (1890) 3,897.

Garffaend, Accoverts Hitt., statesman, born near Covenity of the war was a Confederate Congress, and at the close of the war was a Confederate Senator; was elected governor of Arkansas (1874); U. S. Senator (1876); reelected in 1883; and in 1885 was appointed U. S. Arcectage, and the Confederate Congress, and at the close of the war was a Confederate Congress, and at the close of the war was a Confederate Congress, and at the close of the confederate Congress, and at the close of the confederate Congress, and at the close of the confederate of the confederate Senator; was elected governor of Arkansas (1874); U. S. Senator (1876)

army and through successive promotions became major (1863); served in the Civil War and in 1863 was placed in charge of the cavalry bureau at Washington; afterward took part in various engagementa, and led the party which stormed and captured Blakely, in the operatious against Mobile. He was breveted colonel, brigasiler-general, and major-general, U.S. A., for gallant conduct in the field during the war. Died May 15, 1879. Gast retson, James Edmund, physician and author, born at Wilmington, Del., Oct. 4, 1828; graduated in medicine from the University of Pennsylvania, where he became a specialist in oral surgery. He filled the chair of oral surgery in the University of Pennsylvania; was dean of the Philadelphia Dental College, and wrote A System of Oral Surgery. Under the pen-name of John Daran he wrote Odd Hours of a Physician; Thinker and Thinking, and other works. Died Oct. 26, 1886. Gast rets. John Wark, rallroad president; born at Baltimore, Md., July 31, 1820, entered Lafayette College in 1834, but left the following year to enter the counting house of his father, Robert Garrett, an enterprising and prosperous merchant of Baltimore. In 1839 he became a nember of the firm of R. Garrett & Sons. He took a strong interest in the development of the Baltimore & Ohio Railroad, becoming a director in the company (1857), and its president (1858), retaining this position until his death. He found the company functially embarrassed, but in his first dyvidend, continuing to pay dividends until his death. In his second year the floating debt was paid. During the Civil War the road suffered much from Confederate radders, but made up the lose by the large business of its Washington branch; and after the war it became much expanded and highly prosperous under Mr. G.'s careful management. He was also interested in establishing steamship lines from Baltimore to Liverpool and Bremen, and shortly before his death started the B. & O. Ballroad Co.; was third vice-president (1879), first vice-president (1881) and entered his fa

in the blood of those afficted with gout, and contributed numerous works to medical science.

Garrod, Alferd Henry, M.A., F.R.S., anatomist; born in London, Eng., May 18, 1846; studied at King's College, London, and St. John's College, Cambridge; held several professorships in King's College and the Royal Institution. His papers on the anatomy and classification of birds are of great value to ornithologists. Died Oct. 17, 1879.

Garwe Lawre A. was born in Connecticut 1833; edu.

gists. Died Oct. 17, 1879.

Gat'ry, James A., was born in Connecticut, 1833; educated at Ellicott City, Md.; became junior partner of James S. Gary & Son, manufacturers of cotton duck, etc., in 1860, and succeeded his father as head of the firm in 1890; has been deeply interested in the business and financial affairs of Baltimore; was president of the Manufacturers Association for seven years, and director of asswell financial and other corrections. Manufacturers Association for seven years, and director of several financial and other corporations. Was candidate for Congress on the Republican ticket in 1870, and for governor in 1879; from 1880 to 1892 represented his State in the Republican National Committee; has been a delegate to every national convention of his party since 1872. His long service, unrequited by the ballot, was at length rewarded in March, 1897, when he was

was at length rewarded in March, 1897, when he was given the Postmaster-General's portfolio by President McKinley.

Gas-Fas, in Texas, a N.W. central co.; area, 900 eq. m.; intersected by the Braxos river. Unorganized.

Gas, v. m. (Collog.) To make use of empty talk; to froth; to babble noisily.

Gas En'gime. (Engineering.) This name is given to a class of engines of small power which are worked by the ignition of coal-gas mixed with air. There are several varieties in common use; the main features, however, are the same in all. The construction of the G. E. is usually the same as a horizontal steam-engine in all ever, are the same in all. The construction of the G. E. is usually the same as a horizontal steam-engine in all respects, excepting in the parts for conveying (alternately to the right and left of the piston) gas instead of steam. The gas is not usually led from the main directly into the cylinder, but is admitted in measured quantities into a kind of vessel, from which it passes first into a small mixing chamber, where it is mixed with the

required quantity of air, and then into the cylinder, its admission being governed by a slide valve. In some engines, of which the Lenoir gas engine may be taken as the type, the gas is ignited by an electric spark, which is caused to pass at the proper instant within the cylinder. In the Hugon engine the ignition is effected by two small gas-jets carried in the recesses of the slide valve, one for each end of the cylinders. These jets are supplied with gas by short flexible tubes, which accommodate themselves to the movement of the valve. Each jet, as it in turn effects the ignition of the explosive mixture, is extinguished; but at each stroke the recesses containing the gas-jets are brought outside the respective ends of the faces between which the valve works, where the movable jets are re-lit by fixed jets which are kept permanently burning. A spray of water is admitted into the cylinder at each stroke, and being converted by the heat of the cylinder into steam, adds to the power of the engine, and acts as a lubricator. The idea embraced in these engines was first developed by Le Bon, a French artisan, in 1799, his engine using

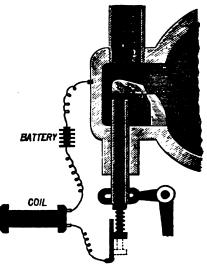


Fig. 2906.—ELECTRIC IGNITER FOR GAS ENGINE-

the electric spark from a static charge, but failing on account of the cost of materials and apparatus at that period. Leuoit's engine (1860) was practically the same. Since 1860 many other forms of gas engines have been devised, some using the gas under compression (as in the Otto engine, 1876), some at ordinary pressure and employing the principle of explosion in various ways, but none presenting any radically new feature or method. Recent improvements have greatly reduced the cost of these engines, which can now be run at a crest of two cents per hour per hours per hour per horse-power. This is not as economical as steam-power, but the G. E. presents advantages of compactness, case of management, &c. as economical as steam-power, but the G. E. presents advantages of compactness, ease of management, &c., which make its use desirable for various purposes, such as that of the propulsion of motor carriages. The oil engise, using petroleum for fuel, is operated on the same principle as the G. E., the oil being vaporized, and the gas exploided along with air. In Priestman's engine the oil is injected as a spray into a hot chamber, where it becomes completely vaporized, the gas being then treated as in an Otto engine.

Gas, Nat'ural. The earliest mention of a natural inflammable gas, proceeding from the earth is doubt-

It becomes completely vaporized, the gas tering ansiterated as in an Otto engine.

Gas, Nat'ural. The earliest mention of a natural inflammable gas, proceeding from the earth, is doubtless that by Marco Polo (14th century) and succeeding Asiatic travellers, who described the fire wells and burning springs of Asia Minor, Persia and India. In his Travels in Chisas the Abbé Huc tells of fire wells, and the methods of drilling them and using their product for fuel. The perpetual fires of Baku, and other shrines of fire-worshipping peoples, were doubtless fed from time immemorial from these same natural sources. Early in the history of our own country the "burning springs" and occasional explosive conflagrations that occurred along the Appalachian range gave evidence of the natural gas existing in that region, though its presence was not generally understood. About 1825 attempts were made to utilize this natural product as fuel. Wells were bored at Fredonia, N. Y., through the rock strata, which eventually resulted in securing an ample supply of gas. At other points, notably along the Kanawha and Muskingum rivers, wells lored for salt water yielded a supply of natural gas, which was sometimes utilized in evaporating the brine. With the development of the coal-oil industry, the use of gas encountered in boring was often extended to furnishing power for operating the drills and refineries. It was found, also, that there were large deposits of gas in certain regions where petroleum could not be obtained in paying quantities. Occasionally the gas existed under a pressure so high as to blow out the tubing and machinery as soon as the vein was struck, generally at a depth of from 600 to 1,500 feet. Up to sbout 180, however, most of the gas developed was not utilized,

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but was regarded as a waste product and an annoyance. By that date it had come to be economically employed as a fuel at various points in western Pennsylvania, eastern Ohio, and West Virginia, and in a short time thereafter it became the favorie fuel in the great centers of iron and glass manufacturing. In Pittsburg, gas practically supplanted coal, not only in shop and foundry, but in private dwellings, almost the entire western part of the State being apparently underlaid with a seemingly inexhaustible supply of this cheap and effective fuel. At first, large quantities of gas were wasted by being consumed at the well, and all up and down the Ohio river, and among the hills and valleys of Westmoreland, Allegheny and Washington counties, could be seen the flaring lights of a thousand natural jets, uselessly consumed for want of adequate provision for repression, storage, or conveyance of the gas. In but was regarded as a waste product and an annoyance. jeta, uselessily consumed for want of adequate provision for repression, storage, or conveyance of the gas. In time, however, pipe lines were multiplied, and, more significant, the supply decreased; and now the furnaces and foundries of that region are chiefly tel by coal, and a pall of smoke again hangs heavy over the hills of western Pennsylvania, as of yors. During the decade of 18×0–90 immense deposits of natural gas were found in western Ohio, at Lima, Findlay, &c., and in Indiana, at numerous points adjoining. From these wells the gas has been conveyed in pipes to Chicago, Detroit and other cities; but these facilities for distribution had hardly been completed before it became evident that the supply was uncertain and gradually diminishing. This natural fuel played an important part in industrial development throughout the "gas belt" for several place of minor importance hereafter, because of its apple exhaustion. The immense quantities used during the height of its popularity may be in some measure years, but it is now fully conceded that it must occupy a place of minor importance hereafter, because of its rapid exhaustion. The immense quantities used during the height of its popularity may be in some measure understood from the authenticated fact, that at one time Pittsburg alone consumed 500,000,000 cubic feet daily in 28,000 domestic and 900 manufacturing establishments, while the product of the wells at Findlay, Ohlo, was estimated at 30,000,000 feet a day, nearly all of which was used locally. These two products alone would do the work of nearly 10,000,000 tons of coal annually.—Distribution. Roughly speaking, the profusble natural gas region is confined to the Ohio valley, and chiefly to the localities already named; but it exists in small quantities throughout a very wide area, extending from the Hudson river to the Pacific ocean. Paying quantities have been found in the vicinity of Buffalo, N. Y.; West Virginia and eastern Kentucky have furnished large quantities of this fuel, and it occurs throughout the entire State of California, but not generally in volume sufficient to give it economic importance if we except the Sacramento and Stockton regions.—Derivation. The natural gas of Pennsylvania is closely associated with petroleum, and consists largely of marsh-gas (CH<sub>a</sub>), although it varies considerably in different localities. Gas from the Trenton limestones, on the contrary, presents great uniformity of constitution, and the presence therein of hydrogen sulphide is indicative of the bitumens of that formatien. This gas is distributed over a very wide area. The variations of the Pennsylvania gas may be seen by the following analyses of two specimens from Westmoreland county, viz.: (No. 1) Marsh-gas, 4958 parts; hydrogen, 3592; ettpl hydride, 1239; ethylene, 660; oxygen, 1'20; carbonic oxide, 6'30; carbonic acid, 6'30; nitrogen, 289. It is believed that the variations observed in the Pennsylvania gas are due to its association with coal-oil in varying quantities. One good effect of its use, howev

suc value of gas as a ruel, with the result that manufactured gas is now very largely and economically employed.

Gas Stoves. The employment of inflammable gas as a means of cooking and heating has grown rapidly within recent years, it having proved economical and useful for summer cooking, its principal advantage over coal being the ease of cutting off the heat supply, a very desirable condition in hot weather. Sheet-iron stoves of various patterns are used for this purpose, some adapted simply for heating, others utilizing the heat for cookery. The G.S. is of special utility in heating rooms and chambers not sufficiently warmed by stoves or furnaces. These stoves frequently take the form of a hearth of blazing logs, the logs being terra cotta initations, pierced with holes through which the gas flows when the stop-occk is turned, and which, when lighted, bear a close resemblance to a hearth of blazing wood. The gas makes no soot or smoke, is easily lighted and controlled, and adds greatly to the comfort and convenience of modern household economy. In the use of natural gas, however, an oily vapor has been detected when employed in a closed room. Stoves for burning petroleum are largely used for similar purposes, and the recently-introduced electric stove may eventually replace both gas and oil stoves for household use.

Sas'eoyme, William, an English inventor, born in 1621. His micrometer is employed in determining the magnitude or distance of terrestrial objects in certain astronomical observations. He fell in the field of Marston Moor, as a Boyalist, in 1644.

Gas'es, Dynam'ic The'ory of. (Physics.) The phenomena of expansion and diffusion of gases have given rise to a theory of the internal organization and activities of matter in the gaseous state which is widely accepted by scientists. It is now held by physicists that every mass of matter is made up of isolated particles, each maintaining its isolation by active motion. Each of these particles is known as mulecula and may be accepted by scientists. It Is now held by physicists that every mass of matter is made up of isolated particles, each maintaining its isolation by active motion. Each of these particles is known as a molecule, and may be made up of two or more, perhaps a large number of atoms, which cohere closely together, the molecules not being divisible into their constituent atoms without changing the chemical character of the substance. The molecules of each substance are supposed to be alike, and to be distinct from those of any different substance. The arrangement and organization of the molecules differ in accordance with the physical state of the body. In the solid and liquid states they are closely crowded together, while free to move, being held by the attractive energy of the others, and their field of motion greatly limited. In the gas the molecules are free to move outward. Their motion is so vigorous that the force of attraction is overcome, and the only limit to their motion is one of external pressure, internal attraction being insufficient to restrain them. A volume of gas, therefore, is not a body, properly so called, but an aggregation of independent molecules, each darting rapidly through space, coming very frequently into contact with other molecules, and instantly darting off in another direction. Myriads of such impacts take place every second within the gas itself, but the molecules also beat vigorously upon surrounding substance, forcing it back in accordance with their energy and its resistance. Expansion arises from this molecular activity, the gas expanding if the external resistance be less than the energy of the molecules, remaining fixed in volume if these energies be equal, and contracting if the external energy be the stronger. Diffusion is due to the fact that the outstriking molecules remaining fixed in volume if these energies of equal, and contracting if the external energy be the stronger. Diffusion is due to the fact that the outstriking molecules remaining fixed in volume if these energ diffuse into a solid or liquid if these present pores into which its molecules of a gas are independent, yield no allegiance to their fellow molecules, but act like so many grains of sand in a sand blast, or other moving solid mass, their chief relation to their fellows being that of collision.—Bergy of Molecules. Comparatively to their size, the molecules of a gas are widely separated, each having a free path of its own. But this free path is limited by collision with other molecules of the same or an external gas, or with the walls of a containing vessel. The molecules, being perfectly elastic, lose no energy through a collision, except through imparting energy to other molecules. Though some may gain and others lose energy through collision, the sum of energy will remain the same. The measure of this mean energy is the temperature of the gas. A portion of it may be lost outwardly, this lose being indicated by a fall in temperature. In other words, heat is not a thing in itself, but simply an effect of molecular impact, and the imparting of heat by one substance to another is equivalent to a lose of moving energy by the one, a gain of moving energy by the other. Solids as well as gases feel the energy of expansion of a gas, the molecules beating like a rain of small shot against the sides of a containing vessel, their energy reinforced by collision from within, so that a constant pressure is exerted on the containing walls. This may become considerable if the gas be compressed, and cause a yielding in the walls if not sufficiently strong, or if flexible, as in the case of a vessel or tube of india-rubber.—Mariotie's Lex. From the facts given the principle known as Mariotte's Law follows as a necessary deduction. If we consider an interval of sufficient length, each molecules must on an average, strike the sides of the result for energy end thus contributing an equal share to the result. Therefore the pressure will be proportional to the number of molecules in the vessel, or to the quantity (or weight) of the

surrounding it. If an opening be made into a vacuum

surrounding it. If an opening be made into a vacuum, the molecules rush in with very great velocity; but when they rush into the empty spaces between the molecules of another gas, they are met with colliding particles in multitudes, and make very slow progress.—There is another subject of interest connected with the dynamics of molecules which is worthy of mention at this point. In the sudden conversion of a sold into a gas, by rapid chemical change, the gas produced, occupied to the control of a very highly compressed progress and instantly expands with a rending force which few substances can resist. Nothing could show more fully the vast energy of motion possessed by the molecules of a gas than the power of explosives, which art simply as highly compressed gases, the momentum of whose molecules, for the instant, acts wholly outwardly, unchecked by any collisions.—Velocity of Molecules. By aid of the dynamical theory we are enabled to estimate the velocity of molecules, not relatively to each other, but absolutely. Thus a cubic centimeter of hydroger, at normal temperature and atmospheric pressure, weight graphings of a gramme, while its pressure is generally subject to the control of the produce such a pressure. The result is 1.843 meters in a second, which indicates both the speed of the mass if it moved as a whole, and of each of its molecules. In the case of the molecules of gases of greater weight, the velocity would be proportionately reduced; but calculation shows that in all cases the speed is very great as compared with that of a rifle ball—a fact which add in comprehending the energy of explosives. More abstrues calculations have led to results less accurate than the above, but probably approximately true, covering the londing the energy of explosives. More abstrues calculations have had a molecules in a row to occupy the length of a millimeter. Results of this kind may be some approach to the truth, but are vitated by a very large margin of uncertainty. General control of the control of the control

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been made. Prof. Dewar, physicist at the Royal Institution, in London, has had marvellone success in these experiments, and has employed the liquide named to cool other gases for the same purpose. His observations have shown that the critical temperature of oxygen is —184° C., and that of nitroyen —183° C. In addition to experiments, and has employed the liquide named to cool other gases for the same purpose. His observatious have shown that the critical temperature of oxygen is —184° C. and that of nitrogen —182° C. In addition to these facts be has been enabled to study the physical properties of the liquids and solids produced, one of the most inter-sting being the fact that oxygen in this state displays magnetic powers. Liquid oxygen does not evaporate rapidly; and by placing it in a vessel with strongly reflecting and poorly radiating walls he was able to send nearly a pint of liquid oxygen from London to Cambridge with little loss by evaporation on the way. —Hydrogen. The one gas that persistently resists liquefaction is hydrogen. Experiment shows that the critical temperature of this gas is about —240° C., a temperature considerably below any yet reached. It has been learned by mathematical deductions that the lowest possible degree of temperature, that in which presumally all the heat would be writhdrawn from a gas, is —274° C. (—461° F.); so that the critical point of hydrogen is not far above that of the minimum point of temperature. The lowest temperature yet produced, obtained by the evaporation of liquid uitrogen in a vacuum, is —210° C. The practical working limit in this experiment is, however, only —200°, leaving 40° to be obtained for the liquefaction of hydrogen and 74° for the zero of temperature. Prof. Dewar thinks it possible that by the use of a gas composed of hydrogen mixed with 10 per cent. of nitrogen, the desired condension of hydrogen might be produced; but the difficulty in such an experiment is the very small proportion of the liquefact material that could be collected. For the minutest results the liquefaction and expansion of 7 cubic yards of hydrogen would be necessary. The result of this experiment was the production of apaste or jelly of solid nitrogen, the desired condension of hydrogen containing 2 to 5 per cent. of all was similarly treated, the result was a white, solid material (solid air sion of the compressed air under regulated conditions. If, while the compression is maintained, the cylinders and its air be cooled to the original temperature—the heat caused by compression being removed—and the expansion to the original volume be then permitted, a marked fall in temperature will result. By now using this air to cool another body of compressed air, and then permitting the latter to expand, a second marked fall in temperature must result. By continuing this process, extremely low temperatures may be produced. If this cumulative cooling process be carried sufficiently far, the air will be brought to the point of liquifaction, so that a continued production of liquid air is a mere question of engine power. The liquid air thus produced is a powerful refrigerant, from the great amount of heat necessary for its evaporation. It is also found to be rich in oxygen, which is present in the proportion of about 70 per cent, so that may be made serviceable as a producer of this useful gas.—Properties at Low Temperatures. Among the properties manifested by substances at very low temperature, may be mentioned the fluorescence of oxygen, as observed by Prof. Dewar. He discovered also a marked increase in elasticity of soft metals when greatly cooled. Photographic action appears at the lowest temperature yet produced, but considerable modification appears in the electric and magnetic action of various substances when brought to the temperature of liquid air.

Has Keell's, ELIZABETH C. (SYEVENSON), novelist; born at Cheyne Row, Chelesse, England, Sept. 29, 1810. Her

brought to the temperature of inquia ar.

"fas'kell, ELIZABETH C. (STRYKNSON), novelist; born at
Cheyne Bow, Chelsea, England, Sept. 29, 1810. Her
early life was spent at Knutsford, a place which is
described in her Ormoford. She recoved an excellent described in her Criticion. She received an excellent education, and in 1832 was married to William Gaskell, a Unitarian minister in Manchester. Here she obtained the life studies which have been so ably represented in the life studies which have been so any represented in her works, none of which attracted more attention than her novel of Mary Bartos, which was published anony-mously. Other publications were The Moorland Oottage; Ruth: North and South; Round the Sofa; Right at Lora; Sylvia's Lovers; Cousis Phillis; Wires and Doughters, She also wrote The Life of Charlotte Bronte, which, like her novels, is a masterpiece of its kind. Died Novem-

her novels, is a masterpiece of its kind. Died November 12, 1865.
Glaskell, Walter Holbrook, physiologist: born in Naples, Nov. 1, 1847; educated at Trinity College, Cambridge; entered the University Hospital; studied with Professor Ludwig, at Leipzig and (1878) took his degree in University Hospital; was made a University tecturer on Physiology, and fellow of the Royal Society; received the gold medal of the Royal Society for researches into the innervation of the heart and the nature of the sympathetic nervous system; was also awarded the Marshall

Hall prize of the Royal Medical and Chirurgical Society

for the same.

Gas'oline, s. A highly volatile, inflammable compound of fluid hydro-carbons obtained by the distillation of crude petroleum or coal. It is used in carbonizing water-gas, and as fuel in vapor stoves, though a dangerous substance

Ous substance.

Gasparin, Aginor Etienne, Conte de, a French publicist, born at Orange, 1810. After serving as secretary to M. Guizot, Comte de G. became, in 1844, a member of the Chamber of Deputies, where he distinguished himself by the broad liberalism of his political and religious views. Among other works from his pen, are those entitled The Uprising of a Great Nation and America in the Presence of Europe (1861-2), both having reference to the civil struggle in the U. S. Died

nis jen, are those entitled The typicing of Great Notion and America in the Presence of Europe (1861-2), both having reference to the civil struggle in the U.S. Died May 14, 1871.

Respective, Valence Bossure, Contesse De, born at Geneva, 1813; was married to Count Agénor de Gaparin, a strong advocate of liberty in religion. She was noted as the defender of the Reformed Communion and for her committee to the religion.

parin, a strong advocate of therty in religion. Sne was noted as the defender of the Reformed Communion and for her opposition to the religious and social extravagance of certain sects. Author of Le Mariage as point de vas Chrétien, and other works that have attracted considerable attention.

Gran'sy, a. Full of gas; impregnated with gas.

(Slang.) Full of boastful or pretentious talk.

Granto'mia., in North Carolina, a post-village of Gaston co., 22 m. W. of Chariotte, on C. & L. and Southern R.Rs.

Does a large shipping business in cotton; cotton mills in vicinity. Pop. (1880) 1.033.

Grant-wile., w. (Biol.) See Enervolooy.

Gates, Merrill. Edwards, educator, born at Warsaw,
N. Y., April 6, 1848; graduated from Rochester University with the degree of A. B.; president of Rutgers College, New Brunswick, N. J. (1882-90), and president of Amherst College (1880): also chairman of the U. S.
Board of Indian Commissioners. He has written numerous papers upon educational, social and religious numerous papers upon educational, social and religious themes, some of which are: Athens and the Greeks of To-day; Sidney Lanier; The Debt the School Orces the State, &c.

mat'ling, Richard Jordan, inventor, born near Mur-freesborough, N. C., Sept. 12., 1818; studied medicine at Laporte, Ind., and in Cinclinati, but never practiced; has made a number of inventions, such as machines for

Laporte, Ind., and in Cincinnati, but never practiced; has made a number of inventions, such as machines for sowing cotton and rice, a steam plough, &c., but his fame rests principally on the Gathing gun, which is the most important product of his inventive genius. See Gun, Machine and Rapid-ries. Smalls, Practical, composer, born at Philadelphia in 1852; best known as composer of the music of Hoyt's. A Trip to Chinatown, which includes the popular songs: The Bowery; Prus Dem Chouds Arcay; Loce Me Little, Love Me Long, and Cynthia and Reuben. Died September 5, 1896. ber 5, 1896.

ber 5, 1896.
Gaum'try, n. [Prov. Eng. gauss, a cask, and tree.] A frame in which casks stand in a cellar.—The frame of a travelling crane, or the frame and crane together, as used in a dock, or at a railway station.
Gautama (gaw'-ta-ma), or Go'tama. The founder of Buddhism. The date of his birth is unknown, being stated by various authorities from as early as 102 BC. to as late as 492 B.C. He was the son of Suddhodhana, King of Kapilavastu, in Northern India, about 100 n. N.W. of Banares. This was not the first appearance on N.W. of Benares. This was not the first appearance on earth of G., if we may believe the Buddhistic annals, which record 550 forms of pre-existence. His birth and early life are enshrouded in supernatural events told by and. The study of the problem of life, with its sor-and death, led him into asceticism, he leaving home at the age of twenty-nine, assuming the garb of a beg-gar, and entering on a deep study of the Brahmanical teneta, none of which estisfied him. For six years more he subjected himself to a course of the severest fasting he subjected himself to a course of the severest fasting and privation, when, satisfied that his self-mortification was useless, he refreshed himself with food, and for 40 days and nights remained in deep thought under the shade of a pipal tree. By the end of that time he had conceived the leading doctrines of Buddhism (q. v.), and set out to teach them to the world. In a brief time he had gained a small body of believers, who afterward organized into a monastic brotherhood, pledged to ceilbacy and simplicity of life, and living solely on unsolicited alms. The remaining 45 years of his life were spent in wanderings through India and the propagation of his doctrines, many converts being made, among them the father and wife whom he had long since left. He died in his eightieth year and was cremated. The accounts given of his life in the Buddhistic books are highly imaginative, and no trustworthy record of his

accounts given of his life in the Buddhistic books are highly inaginative, and no trustworthy record of his life exists. Among the latest works on the subject are, Bishop Bigandet's Life or Leyend of Gaudama (1880), and Rockhill's The Life of the Buddha (1884). Hay, Sydney Howard, journalist, born at Hingham, May 22, 1814; graduated at Harvard; began his career as an anti-slavery lecturer, and editor of the Anti-Slavery Bundard. He became a member of the staff of the New York Tribune, and was its managing editor from 1812 to 1815. He had editorial charge of other renew size, and published a Life of Lawre Madiother papers also, and published a Life of James Medison, and Bryant and Gay's illustrated History of the

son, and Bryant and Gay's illustrated History of the United States, of which the text was mainly contributed by him. Died in 1888.

Gayarre', Charles E. Arthur, author and historian, born at New Orleans, Jan. 3, 1805; educated at the College of New Orleans, studied law and was admitted to the bar; became a member of the Louisiana legislature, depany Attorney-General, and presiding judge of the city of New Orleans. He was Secretary of State of the city of New Orleans.

Louisiana from 1846 to 1853, and published several works on the history of that State, viz: Spanish Des ination in Louisiana; French Domination; American Domination; also, The School of Politics; Philip II. of Spain, &c. Died Feb. 11, 1895.

Domination; also, The School of Politics; Philip II. of Spais, Ac. Died Feb. 11, 1896.

Gay 'Ierd, in Michigen, a post-village, cap. of Otsego co., 47 m. 8. of Cheboygan, on M. C. R. R. Has lumber mills and other manuf. Pop. (1894) 912.

Gear'y, John White, soldier and stateman, born at Mount Pleasant, Westmoreland co., Pa., Dec. 30, 1819; studied at Jefferson Coilege, Canonaburg; became a civil engineer; served in the Mexican War. In 1850 he was elected the first mayor of San Franciaco; was appointed, by President Pierce, governor of Kaness in 1856; entered the Civil War and was made brigadiergeneral (1862); retired from the army at the close of the war, and was governor of Pennsylvania from 187; to 1873. Died Feb. 9, 1873.

Geens'y, in Krasaq, an E. con. co.; creq. 407 sq. m.; in-

to 1873. Died Feb. 9, 1873. Genr'y, in Kansas, an E. cen. co.; area, 407 sq. m.; intersected by the Kansas river. Surface, undulating chiefly prairie; soil, fertile; building stone abundant. Cap. Junction City. Fop. (1896) 9,395. Geb'hardt, von. Oskas, born at Wesenberg, in Esthonia, June 22, 1844; studied theology; has been librarian at Strasburg, Leipzig, Halle, Göttingen and Berlin; edited, with Haruack and Lahn, Apostolicorus Opera; and with Harnack, Bosseliorus Codex Rossessis. Has also re-edited Tischendorf's text of the New Testament.

Opera; and with Harnack, Benngeliorum Coder Rossemani. Has also re-edited Tischendorf's text of the New Testament.

Geddles, William, LL.D., educator, born in Glass. Aberdeenshire, Scotland, Nov. 21, 1828; completed his education at King's College, Aberdeen. He held several professorships and afterward became principal and vice-chancellor of the United University, Aberdeen, also vice-president of the Society for Hellenic Studies; is author of: A Greak Gramsmar; Problem of the Homeric Poems; Floculi Graci Borealis.

Gettragrad', Fang, a Haytian coldier and statesman, was born Sept. 19, 1806; son of Gen. Nicholas G., who served in the war for independence and was one of the framers of the Haytian constitution. He entered the army at 15, and became general of division in 1845; instigated the revolution of 1858, which resulted in the overthrow of Soulouque, from whom G. had received the title of duke. G. became president in Jan., 1859, and instituted several reforms giving less power to the executive. The defeated faction formed a conspiracy to assessinate the new president (Sept. 3, 1859), but only succeeded in killing his daughter; 16 conspirators were executed for this crime. G.'s popularity waned in 1861, when he allowed Great Britain to take the Dominican Republic without resistance, and successive outpresks occurred three of which led by Schuzer was

to assassinate the new president (Sept. 3, 1859), but only succeeded in killing his daughter; 16 conspiration were executed for this crime. G.'s popularity waned in 1861, when he allowed Great Britain to take the Dominican Republic without resistance, and successive outbreaks occurred, three of which, led by Solnave, were subdued in 1864-65; but at last (Mar. 13, 1867) the latter captured the capital and G. fied to Jamaica, where he died in February, 1879.

Gergenbauer, Kall, anatomist, born at Würzburg, Germany, Aug. 21, 1826; educated there, teaching till 1855, when he accepted a medical professorship at Jona; afterward removed to Heidelberg, and gave lectures on the subject of anatomy. His best known work is: Grundriss der rergleiches des Anatomis. He edited the Morphologisches Jakrbuch after 1875.

Gergenscheelin, a. [Ger., counterglow.] (Astrow.) An exceedingly faint and evenly illumined circle of light, some 186 to 20° in diameter, whose center is on the ecliptic, and always seen exactly 180° from the sun. The cause of this phenomenon has elicited much discussion, and nay be claused among the unsolved problems of celestial physics. The most plausible theory is, that it is identical with that causing the moon to be visible even when completely immersed in the earth's shadow. The eerth, being opaque, caust sopposite the sun a long, black, tapering shadow into space, through which the moon often passes. Around the earth, however, is a transparent, refracting medium—the atmosphere—which refracts the sun's light down on the moon, rendering if faintly visible by reflection. Now, if it be assumed (which is probably the case) that space is filled with cosmical dust, that affords a refrecting material of sufficient density to reflect the refracted sunlight to us, as observed. The sun's corona and the zodiacal light afford strong presumptive evidence that space is thus filled with dust—probably the diffused debris of comets' tails. The G. can be seen only with the naked eye, and best about midnight, when on or near

ental languages. Died Oct. 23, 1872.
Get'ik ie, Siz Archibald, geologist; born at Edinburgh, Scotland, in 1835; educated at the High School and University of Edinburgh, and in 1870 was appointed professor of mineralogy and geology in that lustifus-Digitized by

tion. Author of Phenomena of the Glacial Drift of Scotland; Field Geology; Class Book of Geology, &c. Has also contributed largely to scientific and literary periodicals; became director of the Geological Survey of Scotland (1867), and director-general of the Geological Survey of the United Kingdom (1881).

Gel'lkie, James, geologist; born in Edinburgh, Scotland, Aug. 23, 1839; educated at the Edinburgh High School and University; was assistant geologist in the national survey of Scotland, advanced to geologist, and finally was made a district surveyor. Has published papers on scientific subjects, and is the author of The Great Ice Age; Prehistoric Europe; Outlines of Geology, and other works.

Age; Prehistoric Europe; Outlines of Geology, and other works.

Geiss'ler, Heinbeich, physicist, born in Germany, 1814. Besides the tubes named below, G. invented other important aids to scientific investigation. In his early life he was known simply as a skilled and ingenious mechanician, who travelled about from city to city, finally settling in Bonn, where his great reputation was made. In later life he acquired a very comprehensive knowledge of natural sciences, and was made Ph.D. by the University of Bonn. Died in 1879.

Geissler's Tube. [So named from the original maker.] (Physics.) When gases are highly rarefied they conduct electricity of high tension, and the minute readule of each particular gas remaining in a so-called vacuum, when traversed by an electric discharge, gives very characteristic colors and spectrum phenomena. A G. T. consists of a hard glass tube containing what are technically known as an oxygen vacuum, a nitrogen vacuum, a hydrogen vacuum, a carbonic acid vacuum, &c., and furnished at each end with a platinum wire passing through the glass. The inner extremities of the



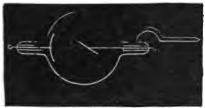


Fig. 2907,-FORMS OF GEISSLER'S (CROOKES) TURN

platinum are generally connected with aluminum wire. If a G. T. is contracted in any portion, the luminous appearance is greatly intensified; and if glass of different composition is employed for different portions of the tube (Uranium glass, for instance), the phenomena of fluorescence and consequent change of tint are very striking. For exhibition these tubes are made of a considerable variety of shapes, embracing spirals, crosses, globes, vases and other devices. The current is supplied from an induction coll, and when of appropriate strength, and the vacuum tube suitable, very beautiful straiffications are seen to cross the tube. The light from a carbonic latinum are generally connected with aluminum wire

to cross the tube. The light from a carbonic acid vacuum enclosed in a narrow spiral tube, is sufficiently powerful to be used as an illuminating agent under special circumstances where other sources of light would be inapplicable and was, therefore, applied to medical purposes several years ago. A long capillary tube was soldered to two bulbs provided with plati-



ago. A long capillary tube was soldered to two bulbs provided with platinum wires; this tube was bent in the middle, so that the two branches touched and their extremities were twisted, as shown at a (Fig. 2008). This tube contained a very rarefied gas, and when the discharge was passed a light was produced at a, bright enough to illuminate any cavity of the body into which the tube was introduced. In the G. T. the region surrounding the terminals is especially brilliant, with a decided difference at the two poles. As the exhaustion of air grows more marked, the discharge becomes nodified in character; and when the vacuum approaches near completeness, the power of conduction ceases and the tube continues to glow with a phosphorescent light, and a remarkable series of phenomena succeed, which are known as the "Crookes effects," from their study by Sir William Crookes. In these, substances placed

within the tube, including various crystals and chemical salts, grow brilliantly luminous. The G. T., or its various modifications known as the Crookes tubes, are employed in producing the striking phenomena of the Roentgen rays (q. v.).

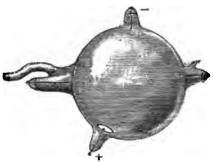


Fig. 2909.—A RECENT FORM OF CROOKES TUBE.

Fig. 2909.—A RECENT FORM OF CROOKES TUBE.

Gel'atime Pro'cess. See ENGRAVING, PHOTOGEME'VA, in Alabama, a S.E. co.; area, 640 sq. m.; intersected by Choctawhatchee and Pearivers. Surface, nearly level; soil, sandy and inferior. Products, corn. cotton and pork. Cap. Geneva. Pop. (1890) 10,690.

Geneva, in Nebraska, a city, cap. of Fillmore co.; 60 m. W.S.W. of Lincoln, on B. & M. and F. E. & M. Y. R.Rs.; has creamery, foundry and machine shops. Pop. (1890) 1,580.

Geneval Triangula'tiom. The coast lines and interior surface of the U. S. have long been under process of measurement by the U. S. Coast and Geodetic Survey; the coast lines have been very largely charted, while a train of triangles is being carried across the continent by the survey, from the Atlantic to the Pacific oceans. Geodesy depends on triangulation as its fundamental principle of operation. It is based on the simple geometrical problem that, with the base and angles of a triangle given, it is easy to determine the remaining sides. In triangulation the first and most important process is to lay down a base-line with the utmost exactitude. Such a line, in an extended survey, must be several miles in length. It may be made in any part of the region to be covered, the portion most approaching a level being chosen, if prominent distant points can be seen from both ends of the line. The measurement is made with bars of the greatest attainable precision, and in which allowance is made for variations in length due to changes of temperature. So correct is the modern art of measuring that a 6-mile base-line can be laid with equal care, when an easy calculation will indicate the distance of that point from each end. Such a line, geometrically determined, can be used as the base line for a new triangle, and in this way triangle can be built upon triangle over a wide space of country without further use of the measuring rod. The length of the lines of sight depends on the nature of the country. These lines are usually from 25 to 40 m. long, but 100 m. may

stimilarly determined. See Coast and Geodetic Surver; Geodetic Discov'ery. (Geog.) The discoveries made by travellers of recent years have greatly added to our knowledge of the earth, and left comparatively few problems of geography yet to be solved. At the beginning of the 19th century almost nothing was known of interior Africa; Asia was imperfectly known; America was full of unsolved problems; only the coast of Australia had been visited and little had been accomplished in the way of Arctic discovery. At the end of the century few of these problems remain, and civilized man is rapidly taking possession of the previously unknown regions of the earth. Of the work done within the 19th century, the most striking results have been those gained in Africa, through the indefatigable efforts of Livingstone, Speke, Grant, Burton, Stanley, Schweinfurth. Barth, Cameron, Thompson, Emin Pasha, Wissmann, and a heet of later travellers, the result being that the continent is now fairly well known in all its general features, its lakes and rivers discovered and traced, its mountains climbed and measured, and only the minor details of its geography remaining to be elucidated. Geographical exploration here has given a new continent to mankind, unknown to the civilized world (beyond a narrow distance from its coast) through the earlier centuries, and which the nations of Europe are now dividing up among themselves with an eagerness far surpassing that shown toward America several centuries before, but fortunately with a treatment of the native inhabitants far more humane than that shown in America. The sentiment of human brotherhood has had a marked development.

since the age of the American colonists.—Asia. The geography of Asia has been partly made known by active travellers and naturalists, and still more by the Russian armies, which have conquered all northern and central Asia, and cleared up many of the ancient problems of the continent. The repellent attitude of China and Japan have been overcome, the sealed kingdoms of Corea and Thibet traversed, the ky regions of Siberia and the broad deserts of Mongolia investigated by indomitable travelers; Central Asia, once ventured into only in the deepest disguise, laid open to railroad tourists, the recesses of Southern Asia and the Himalaya region explored, Arabia widely traversed, and the buried cities of Mesopotamia, with their marvels of ancient art and literature, laid bare. Asia at the beginning of the century was, beyond the general features of its geography, little better known than Africa at the beginning of the century. At its end little of special importance remains to be learned.—Australia, whose desert interior offers few attractions and endless hardships to travellers, has found its series of hardy and persistent adventurers, and its geography is to-day fairly well known. Sturt, Eyre, Leichhardt, and the Gregorys laid bare many of its interior secrets; Burke and Wills in 1860 crossed the desert continent from Melbourne to Carpentaria; in 1872 a telegraph line was laid across the continent from south to north; Glies, Warburton and Forrest forced their way to the west coast, and later travelliers have traced other secrets of the interior, leaving little importance yet to be learned. The principal result of their perilous journeys has been to show that much of the interior of this continental island is not available for colonization, and that civilized settlements cannot well be extended far lack from the coast.—America. The American continent had been largely taken possession of before the 19th century, but in great measure remained unknown. The United States occupied a narrow belt, and the knowledge of its v since the age of the American colonists.—Asia. The geography of Asia has been partly made known by active travellers and naturalists, and still more by the near approach to the pole, and chronicled the important discovery that a deep ocean surrounds this desideratum of geographical research. While new adventurers are devising plans for solving the secret of the pole, the Antarctic problem, long set saide as beyond the power of human research, has been taken up again, and new plans are being broached, new voyages projected, for the exploration of this broad region of unknown and inhospitable land or sea. Such are, very briefly, the results of geographical exploration during the 19th century. As will be perceived, the discoveries have been immense in volume and importance and the great sum of geographical problems have been solved. See African Explorations, Recent; Arctic Explorations; Pearx, &c.

sum of geographical problems have been solved. See AFRICAN EXPLORATIONS, RECENT; ARCTIC EXPLORATIONS; PLARY, &C.

Geograph'seal Distribu'tion. (Nat. History.)
This phrase refers to the distribution of animals and plants over the earth, and covers alike the facts of distribution, the division of the earth into zoölogical and botanical regious, the causes which have led to the wide dispersion of related forms, and the affinities to each other of widely separated genera and species. The promulgation of the Darwinian theory has given a new significance to this topic, and started difficult questions where no problem had been suspected. While the doctrine of special creation prevailed, it was easy enough to explain the presence of a species in a situation remote from its nearest relatives. But when the belief that all species have arisen by descent, and have a common origin, spread among scientists, this easy explanation ceased to be satisfactory, and an earnest endeavor to solve the many mysteries of distribution began. When, for instance, we find that all the mammals of the West Indies, with a single exception, are allied to those of the continent, it is easy to conjecture that they descended from continental ancestors, making their way by easy methods to the islands; but this theory will not apply to that single exception, which belongs to an order (Insectivora) which has no representatives in South America, and to a family whose other species are only found in Madagascar, removed by half the width of the earth. Again, the species of the tapirs are confined to South America and the Malayan region, the camels to Asia and South America; while many other examples of wide separation of animal and tapirs are commed to south America and the manayan region, the camels to Asia and South America; while many other examples of wide separation of animal and plant relatives might be adduced. Some of these anomilies of distribution have been explained, others have not; some seem almost incapable of explanation. In the effort at explanation many interesting studies into

the methods of dispersal have been made. The seeds of plants are carried by winds—many of them being winged for that purpose—on the feet of birds, and by marine currents and sead-rift, while many possess special clinging powers which aid effectually in their distribution by animals. Insects are often blown immense distances from their native habitats, and the same may be said of birds. American birds reach the Bermudas annually, and insects have been caught in ships more than 300 miles from land. The eggs and young of fish and other water animals have been carried long distances by storms, and in this way may have been transported from one river system to another. Marine currents often carry natural rafts on which small animals and plants may be transported. The parastic habits of many animals and plants enable them to be carried for long distances, when possessed of no powers of locomotion of their own. Finally, man has had much to do with the recent distribution of organic forms, carrying numerous plants and animals from one continent to another. This is but a brief summary of the methods of distribution, of which much more might be said but for lack of space.—Checks to Distribution. On the other hand there are many barriers in the way of distribution. For land plants and animals an ocean is a very effective barrier, impassable where very wide, except by human aid. For land mammals, it is an effectual check, and these are never found in oceanic islands—those that have always remained disconnected with the continents. Seppents and amphibians also very rarely reach such islands though lizards by some means have made their way remained disconnected with the continents. Sepents and amphibians also very rarely reach such islands though lizards by some means have made their way remained disconnected with the continents. Sepents and amphibians also very rarely reach such islands though lizards by some means have made their way in this way, cross wide rivers; pigs have been known to swim several miles, and a boa-cons are various other barriers of less importance; and one very important one is the occupation of a region by a native fauna and flora which crowds all available space and leaves no room for new-comers — isolation. Horizons barriers mentioned, and others which might be named, have stood decidedly in the way of a wide distribution of many species, and kept them confined within limited localities. The most striking case of the isolation of organic forms is that presented by the Australian region, whose fauna and flora extend to a deep sea channel between the islands of Ball and Lombok and there find an effectual barrier. The mammals of this region are almost wholly marsupial, a form which has no counterpart except in the widely remote region of America. Yet we do not need to look to Australia for the origin of the opossums of America, saince marsupials once occupied the whole earth, and may well have left descendants in America, as in Australia. Had the barriers to migration which now exist been always the same, it would be impossible to explain the existing distribution on the theory of a common origin. But these barriers have greatly varied with time. What are now islands were once parts of the mainland. Parts of the continents have sunk; parts of the ocean have risen. High roads of migration may once have existed where now is unbroken sea. It is not impossible that even distant continents may have been thus united. It is suggested, for instance, that Africa and South America may have once reached much farther south and been bridged together by Antarctic land. The descent of ice in the glacial period seems to have carried Arctic plants far south, and left them stranded on the Alpine and other cod peaks. The ice bridge which now forms across the Bering strait may in that period, and perhape earlier once, lave reached much farther south and made an easy path between America and Asia. And it is not impossible that Europe and America were once joined together by an northern bridge of land. Certainly, if one accept one very important one is the occupation of a region by a native fauna and flora which crowds all available reached much farther south and made as neasy path between America and Asia. And it is not impossible that Europe and America were once joined together by a northern bridge of land. Certainly, if one accept the Darwinian theory, we must demand such past mutations of level and climate, yielding conditions which would render easy what would now be impossible.—Organic Regions. On the basis of distribution, the earth has been divided into various regions or provinces, of which several schemes have been made, within each of which a more or less distinct flora or fauna is found. Alfred Russell Wallace divides the habitat of the animal kingdom into six regions, with numerous sub-regions. The Palmarctic Region includes the Ethiopian Region includes the East, West, and South African and the Malagasy; the Oriental Region includes the Indian, Ceylonese, Indo-Chinese, and Indo-Malay and sub-regions; the Australian Region includes the Austro-Malayan. Australian, Polynesian and New Zealand; the Neotropical Region includes the Chilean, Brazilian, Mexican and Antillean; and the Nearctic Region, the Californian, Bocky Mountain, Alleghanian and Canadian. Each of these has, in a measure, a peculiar group of animals, though with considerable mingling at their borders, sufficient to have caused several somewhat different achemes to be formulated by other writers. The vegetable kingdom has been similarly divided up, the most important recent works on the subject being those of Engler and Drude. Drude makes 14 divisious, the Northern, Inner Asiatic, Mediter-

ranean, Eastern Asiatic, Central North American, Tropicia (Cal African, East African Islands, Indian, Tropical American, South African, Australian, New Zealand, Audine, Antarctic. Engler seeks to trace the history of plants from the Tertiary age, and finds in that age four "floral elements:" the Arctitertiary, the Palseotropical, the Neotropical or South American, and the old Oceanic. He brings within these great divisions the existing sub-divisions of the vegetable kingdom. Various other divisions of the trace of the string sub-divisions of the geographical distribution of living forms have been made, but the above indicate with sufficient closeness the existing state of affairs. Geological Bur'veys. There have been active efforts made by the States of this country and by the general government to arrive at a definite conception of their geological conditions, the first movement in this direction being made by North Carolina in 1823, followed by Massachusetts in 1830, while in the succeeding decade eleven more States instituted geological surveys, and before 1895 nearly all the States of the country had made provision for the systematic investigation of their rocks and minerals. The completeness with which the work was done differed largely in the different State Representation New York New Lerred.

gation of their rocas and minerais. In a composition with which the work was done differed largely in the different States, Pennsylvania, New York, New Jersey and some others of the eastern States having done the work with a large degree of completeness. The early and some others of the eastern States having done the work with a large degree of completeness. The early work done by the U.S. government in this direction consisted in the attachment of geologists to expeditions sent out for other purposes, while parties having geological exploration for their primary object were sent out in 1834, 1839, 1845, 1847, and 1848. In 1867 Ferdinand V. Hayden was authorized to make a geological survey of Nebraska, his work being afterward continued in other territories. In 1871 John W. Powell was authorized to begin the geological survey of a tract burdering the Colorado river, and in the same year George W. Wheeler began geological work in the West. The U.S. Geological Survey was organized in 1879 to replace the Hayden, Powell and Wheeler surveys, and two years afterward its field of labor was extended from the territories to embrace the entire country, while its corps afterward its field of labor was extended from the territories to embrace the entire country, while its corps has been gradually enlarged until it has grown to be the most important of all governmental organizations engaged in work of this character. Of European countries, Great Britain was the first to institute a governmental geological survey, work being begun in 1832. Austria and Spain followed in 1849, and nearly all the countries of Europe, and also the colonies of Great Britain, have since then engaged in similar explorations. Newfoundland and New Brunswick published their first reports of surveys in 1839, and the governmental survey of Canada began in 1842. In most of the countries of Europe topographical map-making premental survey of Canada began in 1842. In most of the countries of Europe topographical map-making preceded the surveys, but this was not done by the State surveys of this country, the maps used being usually inaccurate. The U.S. governmental survey accompanies its work by maps of its own making, prepared by a corps of engineers employed for that purpose. Geom'omny, s. [Gr. gē, earth, nonos, law.] The science of the physical laws relating to the earth, as geology and physical geography. George, Henry, economist, was born in Philadelphia, on Sept. 2, 1839; entered the Philadelphia High School (1853), but soon left to begin work in a counting-house; in 1834 went to see, and three years later reached

on Sept. 2, 1839; entered the Philadelphia High School (1853), but soon left to begin work in a counting-house in 1834 went to sea, and three years later reached California, where he remained for several years, first as a printer and then (1867) as an editor of several prominent journals, acquiring a great reputation as a writer and public speaker. In 1879 he published, at San Francisco, his Progress and Poverty, an inquiry into the causes of industrial depression and the unequal distribution of wealth, which was republished in New York in 1880 and in London in 1881. This work has been translated into several languages, and has had a sale hardly equalled by any other book on the subject of economy. G. renoved to New York in 1880, and published, the following year, the treatise now reprinted as The Land Question. This was followed in 1883 by Social Poblems. G. having, in the meantine, travelled and lectured in Ireland and England, writing letters from there to the Irish World. In Dec., 1883, he returned to England, upon invitation from the English Land Reform Union, and delivered a series of lectures which attracted wide attention. A similar visit to Scotland followed, and G. returned to the U. S. early in 1885, and prepared a work on the tariff. He was the Labor candidate for mayor of New York in 1886, receiving some 67,000 votes, but was defeated. Has contributed largely to magazines on both sides of the Atlantic, and his controversy with the Duke of Argyll, printed in the Nimeterally Century, was republished under the title largely to magazines on both sides of the Atlantic, and his controversy with the Duke of Argyll, printed in the Nissdeenth Century, was republished under the title Property in Lond; was editor of The Standard, a weekly newspaper established by him in New York in 1887. In the 1897 mayoralty campaign in New York, G. was the candidate of the "Jeffersonian Democrats," but died

the tast insystative tangester in New York, 5. we the candidate of the "Jeffersonian Democrats," but died of apoplexy, Oct. 29, four days before the election.

George, JAMES Z., statesman; born in Monroe co., Ga., Oct. 20, 1821; educated in the public schools of his State; served as a private soldier in the Mexican war, and on his return studied law. From 1854 to 1864 he served as reporter of the High Court of Errors and Appeals of Mississippi; voted for the ordinance of seccession in that State, and served in the Confederate Army as colonel and brigadier-general. He became in 1879 Chief Justice of the Supreme Court of Mississippi, and was in 1880 elected U. S. Senator from that State, which office he held until 1897. Died Aug. 14, 1897.

Georgium Si'dus. [Lat, The Georgian Star.] (Astron.) The name given, in honor of George III., by Sir Wm. Herschel to the planet which he discovered March 13, 1781. Laplace, disliking the innovation of

elevating one's sovereign to the skies, substituted for King George the name of the discoverer, Herschel. This appellation is still widely accepted; but the more

elevating one's sovereign to the skies, substituted for King George the name of the discoverer, Herachel. This appellation is still widely accepted; but the more common name is Uranus, sugested by Bode, to correspond with the names of the other planets, which were derived from those of classic gods. See Uranus.

Ger'hardt, Charles Frederic, chemist; born at Straburg, Aug. 18, 1816; studied chemistry; professor at Montpelier; afterward pursued his chemical investigations in Paris for some years; subsequently filled the chair of chemistry and pharmacy at Strasburg; was the author of a valuable work, Trails de Chimic Organique, and inaugurated a reform in chemical notation known by his name. Died Aug. 19, 1856.

Germ Thee'ory of Biseases'. (Path.) The germ theory is, that the exciting canse of each contagious or infectious disease is some specific living micro-organism, and that these diseases are communicated only by the transference to and development of the specific parasite or germ within or upon the animal infected. Varropiouounced the essence of the theory in regard to certain disease 2,000 years ago, in the time of Cicero and Casar, and after the discovery of the bacteria by Anthony van Leeuwenhoek, Plenciz in 1762 again formulated it virtually as it is held to-day. But, though Henle again labored for it as early as 1821, it has only been since the remarkable development of the acience of bacteriology within the last twenty years, and the convincing work of such scientists as Koch and Pasteur, that it has been accepted generally by the medical procession throughout the world. The bacteria are undcellular, vegetal micro-organisms, and of these there are quite a large number of classes and species. Some of these species have been found, when introduced into suitable culture media, such as the living tissue of the animal body, to be capable of producing, either directly or by their action as ferments upon the tissues, certain virulent poisons called toxines, which poisons are capable of producing in the specif produce the disease in question. (4) The same organism must be found in the inoculated animal. While it is undoubtedly necessary that each one of these postulates should be fulfilled to establish this theory, on the other hand it must be admitted that if they are infalled with regard to any organism or disease, that organism must be a cause of that disease. Such fulfillment has been made as to many maisdies of this nature, especially as to those to which both men and animals, or raimmis alone, are succeptible; and, though it is not practicable to carry out the third postulate in the case of those diseases to which human beings alone are susceptible, enough has been determined experimentally to make it almost alsolutely certain that the germ theory is true for every contagious or infectious disease or malady. From what has been sud, however, it should not be inferred that all such diseases are due to bacteria or vegetal n.icuo-organisms. In some cases it seems to be more probable that the exciting cause is of an animal nature, and in others experimental research has failed to device suitable methods for postively isolating the specific germs, though belief in their existence is still unshaken. In fact, as advances are made in bacteriology and its kindred sciences, we may reasonably expect and hope that not only will the exact cause of each communicable malady be determined, but that means of destroying or limiting the virulence and power of these foes to health and life will also be discovered and made available. See Bactraniocover, Bussonic Plagues; Anyisserric Surgeze, &c. virulence and power of these foes to health and life will also be discovered and made available. See Batts-

will also be discovered and made available. See BactsRIOLOGY; BURDNIC PLAGUE; ANTISEPTIC SURGER, &C.
Ger'man, s. A fancy cotillion, or an entertainment
embracing such a dance.
German Bapt'ists. See Tunkers.
German East Af'ries. The largest colonial possession of Germany; established in consequence of
territorial rights obtained in 1884 for the German Colonization Society, by treaties with native African chiefs in
the highland regions back of the Zanzilsar coast. Germany soon after declared a protectorate over this
region, the rights secured passing in March, 1885, to the
German East Africa Company, which, since that date,
has greatly extended its territory. By a treaty in 1890
with the Sultan of Zanzibar, it secured, by a money

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payment, the narrow coast strip claimed by Zanzibar; and by treaties with England defined the boundaries of and by treaties with England defined the boundaries of the protectorate. As thus defined, the seasonst of the colony extends from the mouth of the Rovuma river on the S., to Wenga on the N. From the latter it extends inward N.W. to the Victoria Nyanza at 1° S. Lat., then W. to the Congo Free State. On the W. the boundary follows that of the Congo Free State to the north end of Lake Tanganyika; the east coast of that lake; thence S.E. to Lake Nyansa. The S. boundary follows the Msinje from Nyaesa to the Rovuma, and along that river to its mouth. The area thus embraced is estimated at 380,000 sq. m. In addition to its seacoast, it has 1,200 m. of coast line on the three large lakes westward. Population estimated (1807) at 1,900.—Geographical Feutures. On the ocean side extends a low, maiarial strip from 60 to more than 100 m. wide West of this lies a mountain area of another 100 m. in breadth, and of salubrious and fertile character. Back a low, maiariai strij irron 00 to more than 100 m. who west of this lies a mountain area of another 100 m. in breadth, and of salubrious and fertile character. Back of the mountains lie semi-arid steppes comprising nearly a fourth of the whole territory; beyond which an extensive region of elevated and fertile soil extends to the lates. The climate seems poorly adapted for European colonization, but the natives, of Bantu stock, show a willingness to work for hire on the plantations.—Control. The East Africa Company, which manages this territory, depends on imperial grants for support, and is responsible for its actions to the government, which appoints the governor of the colony. Experiments have been made with various plants, excellent coffee and cotton being grown, while tobacco culture has been introduced. The caravan routes from the sea to the lakes are protected by fortified military stations, in consequence of the hostility of the Anab slave-dealers; and a railroad was begun in 1892 from Tanga to the Usanbara plantations, to be carried eventually to Karagwe, west of Victoria Nyanza.

a rairoad was beguin in 1832 from langs to the Usanibara plantations, to be carried eventually to Karagwe, west of Victoria Nyanza.

\*\*er'mam Emn'phre. The empire here alluded to is that established in 1871, after the successful war with France; the older empire being dealt with under Gerany (e.e.). The G. E. as at present constituted, lies between 470 167 and 550 53′ N. Lat., and 50′ 25′ and 22′ 25′ E. Lon., its extent, diagonally from S. W. to N. E., being 862 miles, its area 298,738 sq. miles, its population (1891) over 52,000,000. It is bounded N. by the North Sea, Denmark, and the Baltic Sea; E. by Russian Poland and Galicia; S. by Austria and Switzerland; W. by France, Belgium, and the Netherlands. A description of this empire in its physical, political and industrial aspects has already been given under the head of Germany, and we may confine ourselves here to its history.—Hustory. In the spring of 1867 a war between France and Germany seemed imminent, in consequence of the German occupation of Luxemburg. This was averted by the good offices of Great Britain, Luxemburg remained attached to Holland. But the feeling of hostility was not quelled, extensive military preparations were made, a new dispute arose through the apprint ment of a German prince to the xecont.

Luxemburg remained attached to Holland. But the feeling of hoatility was not quelled, extensive nifitary preparations were made, a new dispute arose through the appointment of a German prince to the vacant throne of Spain; and on July 19, 1870, Napoleon III. declared war against Germany, Inspired possibly by the hope that animated the French people, that the experiences of the wars of Napoleon I. would be repeated and Germany speedily overrun and occupied. But the Emperor of France showed none of the ability of his great uncle; the French army proved to be very poorly prepared for war, fatal delays were made, the German army proved to be splendidly organized and much superior in numbers, and the French, instead of marching to Berlin as they enthusiastically proposed, never crossed the Rhine, but found themselves attacked in Alsace and Lorraine. Germany had united for the war, against the expectation of the French, the southern States supporting Prussia and the northern States, and placing their armies at the disposal of King William of Prussia. The war was fought with remarkable celerity, and was a rapid succession of German victories, the first engagement taking place on Aug. 2, while on Sept. 2, one month afterward, the French Emperor surrendered with his whole army at Sedan, and was sent as a prisoner into German. One stronghold of an extendand of the sent and was contained the content of the surrendered with his whole army at Sedan, and was on Sept. 2, one month afterward, the French Emperor surrendered with his whole army at Sedan, and was sent as a prisoner into Germany. One stronghold after another was besieged and surrendered, Paris yielding on Jan. 29, 1871. Peace was declared May 10, 1871, France being condemned to pay a war indennity equal to \$1,000,000,000, and to yield to Germany the province of Alsace and the German part of Lorraine.—The Empire Re-established. One important result of the war was the establishment of the unity of Germany. In Nov., 1870, all the southern States became members of the German Confederation, and during the following month it was resolved, almost unanimously, to restablish the German Empire, with the King of Prussia as hereditary monarch. A deputation of the German Reichstag proceeded to Versailles, and the imperial dignity was offered to and accepted by King William, who on Jan. 17, 1871, was proclaimed German Emperor (Deutscher Raiser). The new empire embraced 26 States, including the whole of the ancient empire with the important omission of Austria, which took no part in the war or the subsequent steps toward German unity. Since the ware with France the G. F. heat and no best la the war or the subsequent steps toward German unity. Since the war or the subsequent steps toward German unity. Since the war with France the G. E. has had no hostile relations with foreign powers, and its treaties of alliance with Austria-Hungary (1879) and Italy (1883) are excellent guarantees for peace. Under the skillful statesmanship of Prince Bismarck, rapid progress in Offenication was made the first intermal cartes their watesmanship of Prince Bismarck, rapid progress in organization was made, the first internal contest being one with the Catholic Church, which brought about the expulsion of the Jesuits (1872) and years of difficulties with the papal authorities, and which ended in 1887 in Bismarck being obliged to grant certain concessions to the Church. The dispute will probably never be fully

settled until an absolute separation of Church and State is brought about. In 1878 the growth of socialism alarmed the authorities; and, in consequence of two attempts upon the life of the emperor, a repressive socialist law was passed. It failed to produce the desired result, and subsequent attempts were made to render futile the socialistic movement by the state taking steps to improve the condition of the working class, laws being passed to compel employers to insure their workmen in case of sickness and accident and (1889) to establish compulsory insurance for workmen against death and old age—measures which have been called "State Socialism." A strongly protective commercial policy was inaugurated and a colonial policy legun. On March 9, 1888, the Emperor William I. died. He was succeeded by his son as Frederick III., who died on June 15 of the same year, and was succeeded by his son, William II. The new monarch had decided views of his own, which quickly led to a rupture with Prince Bismarck, his dismissal from the premiership in 1890, and his replacement by County on Caprivi. Since that period the policy of the emperor has been largely devoted to the increase of the army and navy, a policy which has brought him into frequent conflicts with the Reichstag, which, containing a socialistic membership of growing strength, has objected to voting the funds requisite for these military and naval extensions, and has several times been rought into a state of conflict with the autocratic objected to voting the funds requisite for these military and naval extensions, and has several times been brought into a state of conflict with the autocratic demands of the emperor. This state of affairs led to the retirement of Caprivi from the chancellorship, and his replacement (Oct. 26, 1894) by Prince Cloves von Hohenhohe-Schillingfürst, the present chancellor. German Paste, s. A composition of pea-meal, boiled eggs, &c., given as a food to singing birds. German Protestant, s. One of a body of German free-thinkers having no smiliation with the German churches.

German Text, (Printing.) Black letter similar to Old English and modern German type, much used for

Old English and modern German type, much used for headings of legal documents, &c.

Germas'nium. A chemical element discovered in 1886 in a mineral named argyrodite, occurring near Freiburg, Germany. It has since been found in the mineral euxenite, and has an atomic weight of 72-3; symbol, Ge. Sixteen years before its discovery the existence of such an element was predicted by Mendelgieff, as needed to fill a blank in the lists of his Bendelc Law. Let discovery with the predicted char-Periodic Law. Its discovery, with the predicted char-acteristics, has gone far to confirm that law. G. is of the same family as carbon and silicon, its compounds

resembling those formed by these elements.

Germantown, in Illinois, a village of Vermillon co
Pop. (1890) 1,178. The post-office is Danvilla.

Germ'Acide, a. An agent capable of killing germs;
particularly one used in destroying the bacteria that

particularly one used in destroying the bacteria that cause infectious diseases.

Germ'iculture, n. The artificial cultivation of bacteria, or disease-germs, in the interest of science or for remedial purposes.

Fernome (zkarōn'), JEAN LEON, a distinguished painter of the modern French school, born at Vesont, 1824; studied under Paul Delaroche and at the Ecoledes Beauxstudied under Paul Delaroche and at the École des Beaux-Arts, Paris, in which institution he was appointed professor of Painting, in Dec., 1863. His more prominent productions embrace: The Virgin, the Infant Jesus, and St. John; Bacchus and Cupid; A Greek Interior; The Age of Augustus, and the Birth of Jesus Christ; Rembrandt; The Plague of Marwellle; The Death of St. Jerome; and A Lioness Meeting a Jaguar. Several of his leading works are in American galleries, and many of them have attained a world-wide fame.

Ger'y mander, a. [From Elbridge Gerry, the supposed originator of the practice.] (Polit.) The unnatural or unfair rearrangement of the political divisions of a State or district so as to give a political party or

posed brighnator of the practice; [Folker]. The unatural or unfair rearrangement of the political divisions of a State or district so as to give a political party or faction an undue advantage.

Ger'ster, Erelka, a popular contralto singer; born at Kaschan, Hungary, June 16, 1857; studied under Madane Marchest; made her début in Venice in the opera of Ripoletto, in which she achieved a brilliant success, which has continued throughout her after career. She subsequently sang in Berlin, Buda-Pesth, St. Petersburg, Moscow and London, and has had several very successful seasons in the U. S. where she is a prime favorite. Was married to Dr. Gardini in 1877.

Gese'nius, Friedrich Histrich Wilmelm, orientalist and biblical scholar; born at Nordhausen, Germany, Feb. 3, 1786; studied at Helmstedt, Güttingen, and Halle; was made professor of Theology at Halle, filling that chair for over thirty years. His translations have greatly increased our knowledge of the Hebrew language. His great work was Thescurus Philologico-Criticus Linguas Hebraice et Chaldaice Veteris Testamenti. Died Oct. 23, 1842.

Get'ty, Georas Washington, soldier, born at Georgetown, D. C., Oct. 2, 1819; graduated at West Point; was assigned to the artillery, and served in Canada, in the Mexican War, in Floridia against the Seminoles, and with the Army of the Potoniac during the Civil War. In 1862 he was made brigadier-general of volunteers, and afterward brevet major-general. At the close of the war he returned to the command of his regiment, in 1882, and retired in 1883 with the rank of brevet major-general.

Gherar'di, Bancaort, U. S. N., was born at Jackson, general.

general.

Gherar'di, Banczorr, U.S. N., was born at Jackson,
La., Nov. 10, 1832; entered the navy as midshipman from
Massachusetts in 1846, and entered the Naval Academy
in 1832. At the outbreak of the Civil War he was leutenant on the Lancaster, of the Pacific squadron; in

1862 was made lieutenant-commander, and took part in the engagement at Fort Macon. During the next two years he commanded the Chocoran and the Port Royal, of the Gulf squadron; displayed great coolness and gallantry at the battle of Mobile Bay on board the latter vessel. His subsequent promotions were: commander (1866), captain (1874), commodore (1884), rear-arimiral (1887); was commandant of Brooklyn Navy Yard in 1886; in command of the North Atlantic Squadron, and directed the Columbian naval review in New York harbor in 1893. Retired in 1894.

Shika (gë/ko), Helena, Princess Klotzoff-Massalsky; born at Bucharest, Jan. 22, 1829. She wrote for French Italian, Belgian and Swedish journals; was made an honorary citizen of the Greek kingdom, and a member of several learned societies. Under the name of Dora D' Istrata she wrote: La Saisse Allemande; Les Femmes en Orient; Gli Albanesi in Eumenia; Storia dei Principi Ghika, &c. After her marriage to Prince Klotzoff-Massalsky, Acc.

Ghika, &c. After her marriage to Prince Klotzoff-Mas-salsky, she went to St. Petersburg, residing at the court; afterward spent much of her time in Florence, where she died. Nov. 22, 1888.

afterward spent much of her time in Florence, where she died, Nov. 22, 1888.

\*\*Host Dance. (Anthrop.) About 1889 a religious movement began among the Piute Indians in Nevada, which quickly spread to other tribes, and was attended by a peculiar ceremony known as the G. D. It mainstaned that a Meesiah was about to appear, who would restore the Indians to all their lost rights and banish the white invaders of the land. The doctrine thus enunciated was not a new one, but has appeared from time to time among the Indians. In the present instance the Indian who claimed the Meesiauic dignity was a Pinte named Wivoka (called Jack Wilson by the whitee), who seemed to have unusual hypnotic powers and gained great influence over the wilder tribes, some of which sent delegate 2,000 miles to hear his teachings. He promised a reunion with dead friends, a future state of happiness removed from the whites, and advocated peace and the discarding of everything relating to war. The G. D. takes place at night, men and women joining lands in a circle and moving round from right to left while singing the ghost songs, some being clants in the form of measures from their spirit friends, acharaction the hands in a circle and moving round from right to left while singing the ghost songs, some being chants in the form of messages from their spirit friends, others old songs on all subjects but that of war. During the dance certain leaders seek to hypnotize the most excited of the participants, throwing them into a state of trance, during which they are supposed to commune with their departed friends and to receive messages and visions from the world of spirits. No musical instrument is used in the dance. The Sioux outbreak of 1890-91 arose indirectly from the G. D. ceremonies, but no other disturbance has arisen, although the G. D. is still widely practised. It represents a new religious movement, distinctly superior in its moral significance to the former religious conceptions of the Indians.

distinctly superior in its moral significance to the former religious conceptions of the Indians.

Gl'amt-pow'der, s. A form of dynamite, consisting of infusorial earth saturated with nitro-glycerine. It is a brown powder somewhat like fine sawdust.

Glamt's Ket'tles. (Geol.) In Norway this name is given to pot-shaped, smooth-sided hollows excavated in rocks, and usually filled with boulders, cobble-stones, gravel, &c. They are ascribed to the work of water during the glacial period, this water descending through soodise or glacial chimneys to the bottom of the ice, and setting the stones there in rapid rotation, gradually wearing holes in the underlying rock. They are comparable to the pot-holes of streams, excavated by stones set in gyratory motion by the eddying waters of a stream.

wearing holes in the underlying rock. They are comparable to the pot-holes of streams, excavated by stones set in gyratory motion by the eddying waters of a stream. G. K. occur in many other countries than Norway. Gibb, Charles, horticulturist, born in Montreal, Canada, in 1845; made a journey to Russia (1862) to obtain fruits that would grow on the cold prairies of the U. S. and Canada; subsequently travelled in China, Mongolia, and Japan, for the purpose of studying the fruits of those countries. Died at Cairo, Egypt, March 8, 1890. Gib'bon, John, soldier, born in Pennsylvania in 1826; graduate of West Point. Entered the army in 1847, and served in Mexico; was assistant instructor of artiliery at West Point (1854-57) and quartermaster (1856-59); captain in 4th Artillery, U. S. A. (1859); chief of artiliery under McDowell (1861); was made brigadiergeneral (1862), and major-general (1864) of volunteers, serving with the Army of the Potomac in its principal engagenents; after the war was colonel of the 36th Infantry, U. S. A. (1866-69) and of the 7th Infantry (1869-86); promoted brigadier-general in 1886, and was retired April 20, 1891; resided in Baltimore, where he died Feb. 8, 1896. Was author of The Artilleris's Manual, and a frequent contributor to various periodicals.

died Feb. 5, 1896. Was author of *The Artillerist's Manual*, and a frequent contributor to various periodicals. **Gibbom**, in *Nebraska*, a post-village of Buffalo co., 13 m. E. of Kearney, on Un. Pac. R. R.; has a cheese factory, oreamery, rolling mill, and flour mills. *Pop.* (1897) about 1,250.

(1897) about 1,250.

Gibbons, Asigali (Hopper), philanthrepist, daughter of Issac T. Hopper, was born in Philadelphia, Dec. 7, 1801; became the wife of James Sloan Gibbons of Wilmington, Del.; subsequently removed to New York; became an active assistant to her father in the forming of the Woman's Prison Association, and in founding the Issac T. Hopper Home for discharged prisoners. During the Civil War Mrs. Gibbons' services in hospital and camp were most valuable. She was active in the establishing of the New York Infant Asylum and of the New York diet kitchen. Died Jan. 10, 1893.

Gibbons, James, cardinal, was lorn in Baltimore, July 23, 1834, and educated at St. Charlee College in that city; was assistant priest at St. Patrick's, then

Suly 23, 1834, and concated at St. Charles College in that city; was assistant priest at St. Patrick's, then pastor of St. Bridget's, and later chancellor of the arch-diocese. In 1868 he was made vicar apostolic of North Carolina, with the title of Bishop; in 1872 was transferred to the see of Richmond, Va.; succeeded Arch-

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bishop Bayley, of the archdiocese of Baltimore, in 1877, having been his coadjutor for a few months prior to the latter's death; became a cardinal in 1886, being the second American to receive this honor.

Gib'bons, James Sloan, philanthropist; born in Wilmington, Del., July 1, 1810; engaged in banking in New York; was a prominent abolitionist and an active worker in the anti-slavery cause and in the movement against the destruction of forests; was the author of the well-known war song, We are Coming, Futher Abruham. Died Oct. 18, 1892.

Gibbs, Alferd, Soldier, born at Astoria, N. Y., April 22,

well-known war song, We are Coming, Futher Abraham. Died Oct. 16, 1892.

Gibbs, Alfren. soldier, born at Astoria, N. Y., April 22, 1823; graduated from West Point, and began his career as brevet second-lieutenant in the mounted rifice; served in the Mexican and Civil Wars, and was made brigadier-general of volunteers (1864). He received, for distinguished conduct, the various brevets from major to major-general, U. S. A. Died Dec. 26, 1868.

Gibbs, Oliver Wolcorr, chemist, born in New York Feb. 21, 1822; graduated at Columbia College; studied chemistry in Philadelphis, and medicine in the New York College of Physicians and Surgeons, and in Europe under Liebig; subsequently became professor of Chemistry and Physics in the New York Free Academy, and, in 1863, of Chemistry in Harvard College. European societies have bestowed honors upon him, and he has published numerous articles in the American Journal of Science, &c. He was appointed Scientific Commissioner of the U. S. to the Vienna Exhibition of 1873.

Gibbsom, William Harltron, artist and anthor, born at Sandy Hook, Conn., Oct. 5, 1850. He early developed talent for drawing and keen interest in plant and insect the studied at the Brooklyn Polytechnic Institute, where his taste for drawing was systematically developed.

where his taste for drawing was systematically developed. Thrown upon his own resources by the death of his father, G. entered commercial life in the employ of an where his taste for drawing was systematically developed. Thrown upon his own resources by the death of his father, G. entered commercial life in the employ of an insurance company; but this proving uncongenial, he gave it up and devoted himself to the particular art which interested him most—the drawing of flowers and insects. His first public work, a short illustrated article on the interior structure of a butternut, appeared in 1870; this was followed by many similar contributions to the leading juvenile and other periodicals, and later by more pretentious work in the principal magazines. Although not a scientist, in the usual sense of the term, G. did much by his ingenuity and analytical methods to stimulate the development of certain branches of popular science, his close familiarity with nature, as expressed in his pictures and the accompanying texts, acting as an inspiration as well as a source of practical information. His books include: Camp Life is the Woods and the Tricks of Trapping and Trapmaking; Pustoral Days, or Memories of a New England Year; and Highways and Byseays. Among his latest illustrated magazine articles was Our Etible Toadstools and Mashrooms (1895). Died July 18, 1896.
Gib'sonburg, in Ohio, a post-village of Sandusky co., 13 m. W. of Fremont, on T., W. V. & O. R. R. Pop. (1897) about 650.
Gid'dings, Franklim Henry, sociologist, born at Sherman, Conn., March 23, 1855; graduated at Union College; was employed on the Springfield (Mass.) Daily Union and Republican, contributing at the same time economic studies to various publications; was called to the chair of political sciences at Bryn Mawr College (1881). In connection with Prof. J. R. Clark he is the author of The Modern Distribution Process; editor of the monographs of the American Economic Association, and, for a time, was associate editor of the Association, and, for a time, was associate editor of the Association, and, for a time, was associate editor of the Association, and, for a time, was associate editor of the Association,

The Rebellion, its Authors and Causes. Died at Montreal, May 27, 1864.

Giddings, in Texas, a post-town, cap. of Lee co., 59 m. E. of Austin, on H. & T. C. and S. A. & A. P. R. Rs. Has sods-water factory, brick works and manufactories of dentist's supplies. Pop. (1890) 1,233.

Giff ford, Robert Swain, painter, born in Massachusetta, Dec. 23, 1840; studied painting with Albert Van Beest in New York. His travels, which were extensive, enabled him to give a wide variety of scene to his works. His paintings include: Boats on the Nile; Egypticas Caracom; Border of the Desert, &c.; was president of the New York Etching Club.

Gifford, Sanvora Rooges, painter, born at Greenfield.

the New York Etching Club. ##fford, Sampord Rogers, painter, born at Greenfield, N. Y., July 10, 1823; studied at Brown University; left college to study art in New York. He became a member of the National Association, made several visits to Europe. Among his works are: San Giorgio; Yenice; The Coving Storm; The Golden Horn, &c.; served in the Civil War with the 7th New York Regiment. Died Aug. 29, 1820. Gifford

Civil War with the 7th New York Regiment. Died Aug. 29, 1880.

Gifford, in Arkansas, a post-town of Hot Springs co., 39 m. S. W. of Little Rock, on St. L., Iron Mt. & S. R. R. Pop. (1890) 516.

Gig'man, s. A man who keeps a gig; hence, applied to a narrow-minded man who considers himself better than his neighbors because he lives in a little better

style.

Gigneoux, Francois Redis, painter; born at Lyons,
France, in 1816; studied in Paris; pupil of Delaroche
and others. In 1840 he removed to the U. S., settled in
New York, and gave his attention to landscape painting; became a member of the Academy of Design, and

was the first president of the Brooklyn Art Academy; subsequently returned to France (1870). His works include: Virginia in Indian Summer; The Four Seasons in America; Niegara in Winter, &c.

Gilm (hè'li), in Arisona, a S.E. cen. co.; area, 3,212 sq. m. Surface, mountainous, with rolling uplands covered with grass. It is drained by tributaries of Salt river. This is essentially a mining and graxing country, but embraces much farming land. Cap. Globe City. Pop. (1897) about 3,150.

(1897) about 3,150.

ila Mon'ster. (Zoll.) The common name of a large lizard of S.W. United States, known scientifically a large lizard of S.W. United States, known scientifically as Holoderma suspectsms, and possessed of poisonous powers. It is one of the largest of North American lizards, is covered with scales of brilliant orange and lizards, is covered with scales of brilliant orange and piet-black hues, and frequents the sandy deserts of New Mexico, Texas, and Arizona, its common name being derived from the Gila river. Its bite is said to be quickly fatal to birds and small mammals, and very injurious, though rarely fatal, to man. Like poisonous snakes, it has grooved teeth with highly developed salivary glands at their bases. Another species, Heloderma horridsm, of Mexico, is similarly poisonous. The heloderms are the only lizards known to be venomous.

only lizards known to be venomous.

Gil'bert, Charles Henry, ichthyologist, born at Rockford, Ill., Dec. 6, 1869; student of Butler and Indiana Universities; has held successively the chair of Zoölogy in the University of Cincinnati, Indiana University, and Leland Stanford University; is considered an authorities the School Control of Cont thority on the fishes of North America, and jointly with Dr. D. S. Jordan was the author of Synopsis of the Fishes of North America; has also published various ichthy-

of North America; has also published various collegi-ological papers.

###Beer#, Grove Karl, geologist, born at Rochester,
N. Y., May 6, 1843; graduated from the University of
Rochester; has held various positions as geologist, and
successively the office of president of the American
Society of Naturalists, of the Geological Society of
America, and of the Philosophical Society of Washington. Author of Geology of the Henry Mountains;

Table Romanille &c.

ington. Author of Geology of the Henry Mountaine; Lake Bonneville, &c.
Gilbert, Sir John, a historical painter, was born in England in 1817; became (1871) president of the Society of Painters in Water-Colors. Among his most notable pictures are the following: Don Quizote girung Advice to Sancho Panza; The Education of Gil Blas; Othello before the Sende; Tvistrum Shandy; The Murer of Thomas & Becket; Charge of Circuliers at Naseby; The Studio of Rembrandt; and The Entry of Joan of Arc into Orleans.

Gilbert, John Gibbs, actor, born in Boston, Mass., Feb. 27, 1810; acted for some years in the U. S.; went to London and first appeared there in the character of Sir Bobert Bramble, in The Poor Gentleman; visited Paris; returned to the U. S. (1848), playing in Philadelphia and Boston; finally joined the company at Wallack's Theater in New York (1862). Some of the Character in which he was formers were Sir Beter. characters in which he was famous were Sir Peter Teazle, Sir Anthony Absolute, and Old Dornton. Died June 17, 1889.

June 17, 1889.

Gilbert, Joseph Hener, agricultural chemist, born at Hull, England, Aug. 1, 1817; educated at the University of Glasgow and University College, London; studied under Liebig at Geisseu; became director of the Rothamsted Lahoratory and professor of Rural Economy in the University of Oxford. His investigations at Rothamsted made him famous in the field of agricultural experimentation. Died June 17, 1889.

Gilbert, William Schwens, humorist and dramatist; born in London, Nov. 18, 1836; educated at Great Ealing: School, and received the degree of B.A. from the London University; admitted to the bar in 1884. Author of the humorous Bab Ballada. He wrote for the stage burlesquee, comedies and farces which were very population.

the numorous sob Ballada. He wrote for the stage burlesques, comedies and farces which were very popular, but he is best known by his comic operas, in producing which he was associated with Arthur Sullivan. They include Trial by Jury; The Sorcerer; H. M. S. Pinafore; The Pirates of Penaauce; Patience; Iolanthe; The Mikado; Ruddygore; The Gondoliers; Utopia (Limited) Re.

The Instally Ac.

Gil'berton, in Pennsylvania, a post-borough of Schuylkill co., 4 m. from Mahanoy (ity, on Penns. and P. & R. R.s.; in a coal mining region. Pop. (1890) 3,687.

Gil'ehrist, Alexander, art critic; born at Newingston Green, England, 1823; educated at University College, London; was admitted to the bar, though he never practiced. Author of a Life of Ety, and a Life of Blake which was left unfinished. Died Nov. 30, 1861.—Anne Gilcheit, this wife, was born in London, 1823; contributor to All the Year Rossad, MacMillan's and Blackwood's Magazines. Published a Life of Mary Lamb, and completed her husband's Life of Blake, referred to above. Died in 1885.

completed her husband's Life of Blake, referred to above. Died in 1885.

Bild in 1885.

Bild'der, Richard Watson, editor and poet; born at Bordentown, N. J., Feb. 8, 1844; editor of House at Home, which magazine was merged into Scribner's Monthly, G. being made associate editor, and editor-in-chief when the name was changed to Century Magazine. Is the author of several volumes of poems, including The New Day; The Poet and His Master, &c.

Gilder, William Henry, traveller and journalist; born in Philadelphia, Aug. 16, 1838; entered the Civil War as a private, was promoted to a captaincy, and later was

in Philadelphia, Aug. 16, 1838; entered the Civil War as a private, was promoted to a captaincy, and later was made brevet major-general. He accompanied the expedition in the search for the Sir John Franklin relics (1878–80) as the New York Herald's correspondent; also formed one of the company in the search for the bodies of DeLong and his companions in the Lena delta; author of Schwalka's Search (1881), and Ice-Pack and Tundra (1883); served as correspondent of the Herald during the Franco-Chinese war in Tonquin.

Gilfil'lam, Grongr, author, born at Comrie, Perthebire, 1819; student of the University of Glasgow, and of the Divinity Hall of the Secession body; licensed (1835) to preach the gospel; subsequently ordained to School Wynd Church, Dundee, where he remained until his death. His literary industry was great, and he acquired a reputation as a lecturer. His works include: The Bards of the Bible; The Martyrs of the Scotlish Corenant; Alpha and Omega; Sketches, Literary and Theological; Liters of Scott, Burna, &c. Died in 1878.
Gill, Davin, astronomer; born in Aberdeenshire, Scotland, June 12, 1843; educated at Marischal College, Aberdeen. He became the condjutor of Lord Lindsa; and went to Mauritius (1874) to observe the transit of Venus under his auspices; commanded an expedition

and went to Mauritius (1874) to observe the transit of Venus under his auspices; commanded an expedition (1877) to the island of Ascension, in the South Pacific Ocean, to determine the solar parallax by observating of Mars; appointed by the government (1879), director of the observatory at the Cape of Good Hope, which, under his able management, has become one of the leading observatories of the world. In cooperation with William L. Elkin he published his determinations of stellar parallaxes, &c; is the author of other valuable works and monographs, and a member of the permanent committee of the International Astrophotographic Congress.

Gill, Theodore Nicholas, naturalist, born in New York Fill, THEODORE NICHOLAS, naturalist, born in New York city, March 21, 1837; educated in private schools; awarded the honorary degrees of M.A., Ph.D. and M.D. He has made a special study of manmals, reptiles, and mollusks, and has been employed in the service of the Smithsonian Institution. Other countries have recognized his abilities as a scientist, and he is widely known for his valuable work in and contributions to ichthyology.

known for his valuable work in and contributions to ichthyology.

Gill'lam, Bernard, cartoonist, born in Banbury, England, in October, 1856; came to the U. S. with his parents in 1866; was educated at Williamsburg, N. Y. became a clerk in a lawyer's office; and in 1876 began making drawings for illustrated periodicals, including Frunk Leslies Illustrated Newspaper, Harper's Weekly and the New York Graphic. He subsequently engaged in portrait painting, his first subject being Henry Ward Beecher. For several years afterward he was employed as cartoonist on Pack, and on the establishment of Judge joined its art staff, supplying cartoons on political subjects. He became part owner of the paper, and remained connected with it until his death, Jan. 19, 1886.

Gil'lem, Alvan C., soldier, born in Tennessee in 1830;

subjects. He became part owner of the paper, and remained connected with it until his death, Jan. 19, 1886. Gill'lemm, Atvan C., solder, born in Tennessee in 1830; graduated at West Point and was assigned to the artifery; served in the Seminole War and in the Civil War, reaching the rank of brevet major-general. In Sept., 1866, he was mustered out of the volunteer service. For gallant conduct in the field he received successive brevets in the regular army from major to major-general. He was conspicuous in the conflict with the Modoc Indians (1873). Died Dec. 2, 1875. Gillett', Eran Hall, author, born at Colchester, Conn., July 15, 1823; graduate of Yale College and the Union Theological Seminary; ordained to the Presbyterian ministry; appointed (1868) professor of political economy, ethics and history in the University of New York. Author of: Life sond Times of John Hoss; History of the Presbyterian Church is the United States; Auciont Cities; Bagland Two Hundred Years Ago, &c.
Gill'liam, in Oregon, a N.co.; area, 1,700 sq. m. Ricers. John Day river, Rock, Butter, and 30-Mile creeks. Surface. Rolling prairie; soil, productive, dark, rich loam. Industries. Farming and stock raising. Cap. Condon. Pop. 3,600.
Gill'morre, Quincy Adams, soldier and engineer, was born in Ohio, Feb. 28, 1825, graduated at West Point and commissioned in corps of engineers in 1849; was appointed brigadier-general of Volunteers in 1862, and at the battle of Somerset, Ky, in 1863; and, while in command of the Department of the South, conducted several other military operations, including the slegge of Charleston. After the was he was placed in comseveral other military operations, including the siege of Charleston. After the war he was placed in com-mand of the Department of South Carolina, and received brevets from lieutenant-colonel to major-general in the regular army for gallant conduct during the war. He was super-intending engineer [1865-72] of various fortifications and river and harbor improvements on the Atlantic coast, and published a treatise on Limes, Hydraukic Concents, and Mortars, and other works. Died April 7, 1888.

April 7, 1868.

Gill'-met, s. A net suspended in a stream, having meshes which allow the heads of the fish to pass and in which they become entangled by their gills.

Gil'ly, s. (Slang.) A simpleton, or one easily imposed

upon. Gil'mann, Arthur, educator; born at Alton, III., June 22, 1837; engaged as a banker in New York; subse-quently removed to Lenox, Mass., where he gave his quently removed to Lenox, Mass, where he gave his attention and labors to literary pursuits, education and religious instruction; was appointed to the charge of the Harvard Annex (1876); and had editorial connection with the publications of the American Tract Society, Boston. He has edited the Story of the Nations series and an edition of Chancer. Published First Steps in English Literature; and History of the American People.

Gilmman, Dankel Corr., educator, born at Norwich, Conn., July 6, 1831; graduated from Yale (1852); superintendent of New Haven schools (1856-69); State Superintendent of Schools, Conn. (1865-69); State Superintendent of Schools, Conn. (1865-69); bibrarian of Yale (1856-69) and professor of physical and political geography in Sheffield Scientific School (1863-72); president of the University of California (1872-75); in the latter year became president of Johns Hopkins University

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Baltimore, which position he still holds (1897). He received the honorary degree of LLD. from Harvard in 1876 and from Columbia in 1883; has written profusely on educational, political and economic subjects, and is the author of a biography of James Monroe.

Gil'mam, N. P., clergman, and writer on economics; born at Quincy, Ill., Dec. 21, 1849; graduate of Harvard Divinity School; appointed professor in Antioch College; secretary of the Association for the Promotion of Profit-sharing; editor of The Literary World, Boston, and later The New World in the same city. His works include: Profit-Sharing between Employer and Employé; The Lauss of Daily Conduct, &c.

Gil'moore, John R., author; born at Boston, Mass., 18-23. After a period spent in business, he gave his attention to literature, and, under the pen-name of Edmund Kirrk, wrote: Among the Pines: My Southern Friends; Down in Tennessee, &c. He has contributed to various periodicals and is the author of a Life of Jenus. Gilmoore's Band (1858); entered the Civil War and served for two years under Burnside. He was the organizer of the Peace Jubilee (1869) and the World's Jubilee (1862) which were held in Boston; also of the New York Twenty-second Regiment band of 100 pieces. Author of an anthem, Columbia. Died at St. Louis, Mo., Sept. 24, 1892.

Gin'ger-ale, s. A non-alcoholic beverage, made by Sept. 24, 1892.

Sept. 24, 1892.

Gin'ger-ale, s. A non-alcoholic beverage, made by dissolving sugar in water, flavoring with ginger and coloring with a solution of caramel. Each bottle is aerated with carbonic-acid gas and securely corked.

Gingerol', s. (Chem.) The active principle of ginger.

Ging'ko, or Gim'ko, s. (Bot.) A large tree, Solibbaria adiastifolia, order Tanacræ (Yews, &c.), with erect trunk and wide, flat leaves, a character possessed by few trees of the order. Its fruit has a kernel resembling the almond, for which it is largely grown in China, its mative country. Its wood is easily worked and takes a fine polish. It has been introduced into the U.S.

Gin'-mill, s. (Slasg.) A low drinking saloon.

Gin-pal'ace, s. A drinking saloon gorgeously fitted up or illuminated.

Girard', in Illisios, a city of Macoupin co., 25 m. S. W.

up or illuminated.

Girard', in Illimios, a city of Macoupin co., 25 m. S. W. of Springfield, on C. & A. and J., L. & St. L. R. Ra. Coal is extensively mined here. Pop. (1890) 1,524.

Girard, in Kasaca, a city, cap. of Crawford co., 20 m. S. by W. of Fort Scott, on the K. C., Fort S. & M., the A., T. & S. Fé, and the St. L. & S. F. R. Ra.; has foundry and machine shops. Coal is mined here. Pop. (1895)

and machine shops. Coal is mined here. Pop. (1895) 2,703.

Girard'ville, in Perseglecasia, a post-borough of Schuylkill co.,13 m. N. W. of Potsville, on P. & R. and L. Val. R. Rs. Here are large anthracite coal mines, and coal is largely shipped. Pop. (1890) 3,584.

Gis'borme, Francis Newton, telegraphist, born at Broughton, Lancashire, England, March 8, 1824; removed to Canada and became superintendent of the Nova Scotia government telegraph lines at Halifax; laid the first ocean cable on the American side of the Atlantic, connecting Prince Edward Island with New Brunswick; was a charter member, and became (1866) the chief engineer of the New York, Newfoundland and London Telegraph Company; was made superintendent (1879) of the Dominion Government Telegraph Signal Service. Died Aug. 29, 1892.

Glad'brook, in Iosoa, a post-town of Tama co., 16 m. N.W. of Toledo, at the junction of C. & N.W. and C. & G. W. R. R. Has some local manufactures and is a shipping point for cattle, hogs and grain. Pop. (1897) about 840.

Glad'dem, Washington, D.D. Li.D., clergyman and

shipping point for cattle, hogs and grain. Pop. (1891) about 80.

Gladfdem, Washingron, D.D., Ll.D., clergyman and anthor, born at Pottagrove, Pa., Feb. 11, 1836; graduated from Williams College (1859); was one of the staff of the Independent also editor of Sunday Afternoon; successively engaged as pastor of Congregational churches in Brooklyn and Morrisania, N.Y., North Adams and Springfield, Mass., and (1883) Columbus, O. He has won a reputation both as preacher and author. His works include: Tools and the Man; Property and Industry under the Christina Law; Who Wrote the Bible; The Cosmopolis City Club, &c.

Gladfateme, in Michigas, a city of Delta co., 9 m. N. of Escanaba, on M., St. P. & S. Ste. M. R. R.; has flour and coal docks, a grain elevator and machine shops. Pop. (1894) 2,130.

Gladfwim, in Michigan, a post-village, cap. of Gladwin co., 28 m. W.N.W. of Pinconning, on M. C. R. R. Pop. (1894) 882.

Clasish'er, Jahra, an English abronaut, born in 1809, who acquired considerable fame as a meteorologist, and for the manner in which he turned to scientific account the results of his experiments above the clouds in his halloon voyages. He was made a member of the Royal Society in 1849. In 1865 he succeeded Admiral Fitzroy as chief of the Moteorological Department of the English Board of Trade. In 1870 he published Travels in the Air: a Popular Account of Balloon Voyages and Ventures, with Recent Attempts to Accomplish the Navigation of the Air, and has published numerous other works on astronomy, meteorology, and mathematics. In 1863 he acconded to an unprecedented height in the atmosphere, claimed to be 37,000 above the earth's surface.

Clasificate, in Ohio, a post-village of Putnam co., 3 m. W. of Ottawa, on F., Ft. W. & W. R. R. Pop. (1890) 571.

Class'cow, or Glas'gow, in Tennessee, a post-village of Rhea co. Pop. (1890) 399.

Class, Spum. (Massif.) Glass of certain kinds, when in the plastic state, is capable of being drawn out into threads of great tenacity, and of much flexibility and elasticity, while they possess much brilliancy and Glaish'er, James, an English aëronaut, born in 1809,

beauty of color, and are soft and smooth to the touch, like fine wool. The threads produced in this way have been woven into textiles for upholstery and wearing purposes, and are especially useful in millinery from their richness of color and their being unaffected by the

[SECTION II.]

Glass'cock, in Texas, a W. co.; area, 900 sq. m.; intersected by the Concho River. Cup. Garden City. Pop. (1890) 208.

STABLE COCK., IN 12222. a. W. CO.; area, SUO ed. M.; Intersected by the Concho River. Cap. Garden City. Pop. (1890) 208.

Glass-spomge, s. (Zoil.) A sponge belonging to a number of genera, of the family Hexactisellide, which form a firm slicious skeleton of hyaline, six-rayed spicules, which, when the fleshy parts are washed away, remain as a netted frame-work resembling the finest spun glass. In some cases the sponge is anchored to the bottom by a cable of long silicious spicules descending into the soil. They are all tenants of deep water. The handsome Venus flower-basket of the dealers is Emplectella apergillum; while the most common glassrope sponge is the Japanese species, Hyalonema sieboldii. Gless/om, Frederick Grant, musician; born at Middletown, Conn., bec. 17, 1848. He wrote an oratorio. The Capticity, and a Christmas oratorio before he was sixteen; studied at Hartford, Conn., pupil of Dudley Buck; afterward continued his studies in Leipzig, Berlin, and London. On his return to America he accepted a position as an organist in Hartford, Conn., has resided in Chicago since 1876, engaged in teaching, composing, and as musical critic for the Tribuse of that city. His works comprise two operas, Otho Visconte and Mostersma; three cantatus, God our Delicerer; The Culprif Fay, and Protes of Harmony; besides sonatas, songs, and numerous minor compositions for the organ.

Glem Rocks, in Pennsylensia, a post-village of Clearfield co., 1 m. N.W. of O'Shanter. Pop. (1890) 827.

Glem God, in S. of York, on N. C. R. R.; has manufactures of furniture, sash, doors, carpets, felts and cordage; also a foundry and machine shops. Pop. (1890) 827.

Glem'dive, in Mostana, a post-village, cap. of Dawson co. 7 m. E. of Dawson City, on Nor. Pac. R. B.; the shipping point of a large farming and stock raising region. Pop. (1890) 2255.

Glem'dive, in Mostana, a post-village, cap. of Dawson co. 7 m. E. of Dawson City, on Nor. Pac. R. B.; the shipping point of a large farming and stock raising region. Pop. (1890) 2255.

Pop. (1890) 2,255.

Glem'wood Springs, in Colorado, a post-village, cap. of Garfield co. 86 m. W. of Leadville on D. & Rio G. and Colo. Midland R.Rs. Here are large thermal springs much resorted to by invalids. Pop. (1897) 1,250.

Glis'som, Olivez S. U. S. N., born in Ohlo, in 1809; entered the navy (1826), and served with distinction, especially during the Civil War; reached the rank of rear-admiral in 1870, and died Nov. 20, 1890.

Globe or Gliobe City, in drisona, a post-town, cap. of Gila co., in the Pinal Mountain, 75 m. N. & of Florence. Here are rich ores of silver and copper. Mining is the principal industry. Pop. (1897) about 1,500. Pop. (1890) 2,255. len'wood Sp

(q. v.), whose name is derived from its roughly globular shape. The various species are found on the ocean surface far from land, and as they die their calcareous shells sink to the bottom, where they form a deposit known as G. coze. This is supposed to be gradually hardening into a bed of chalk.

naruening into a bed of chark.

Glock'enspiel, w. A musical instrument having a series of small bells or metal bars that are struck with a small hammer or acted on by means of keys; a carillon.

Glioria-cloth. See Gloriosa.
Gliorio sa., n. [Lat. adj., full of glory.] (Bot.) A
genus of tuberous-rooted, tendril-climbing plants of
the Liliace, or lily family, natives of tropical Asia or
Africa; cultivated in hot-houses for their splendid large

genus of the Liliace, or illy family, natives of tropical Asia or Africa; cultivated in hot-houses for their splendid large red or yellow flowers.

(Fabrica.) A cloth composed of wool and silk, closely resembling the latter, used for umbrellas, &c.

Glos'sie, s.. (Gr. glosa, tougue.) "A fonetic sistem or speling, using noa noo karakterz, but employing each letter or deigraf or dhe komon afabet with dhair most uzual soundz." The foregoing is a combined definition, example and warning.

Glos'sop, a manufacturing town of England, county Derby, 17 miles W.N.W. of Sheffield. Pop. (1835) 22,416. Glus'cope, s.. (Chem.) A liquid material produced from corn-starch, though it may be obtained from other sources, such as the grape, its solid form being known as grape sugar, or sometimes as starch sugar. The term G, in its commercial use, is confined to the thick syrup made from corn starch. In its manufacture the corn is soaked for several days in warm water, and then ground on stones over which flows a stream of water. The material thus produced is passed through a botting cloth, and the starch separated by suitable methods from the gluten. The starch thus obtained is beaten up with water until of a creamy consistency, conducted to the converting tubes and treated with dilute sulphuric acid. During the process, about two hours long, steam is made to bubble into the liquid. Marble dust and animal charcoal are next used to neutralize the acid, and the liquor evaporated till sufficiently concentrated. This is the most common of several methods of producing G., which is a thick tenactious syrup, almost colorless, its degree of sweetness being due to the extent of chemical action in the conversion of starch into sugar. If stopped as soon as the starch disappears it has its maximum sweetness. Grape sugar was made from wood fibre as early as 1819, and as administed and wood clippings are used to some extent in the manufacture of G, yielding an inferior, and sawdust and wood clippings are used to some logs.

extent in the manufacture of G., yielding an inferior, Godi'va, Lady. See Coverner.

but not necessarily an unwholesome article. In a report made by a committee of the National Academy of Sciences on G, in 1884, it was declared that grape sugar Sciences on G. in 1884, it was declared that grape sigar had two-thirds the sweetening power of corn sugar, that it had no deleterious effect, and that "the starch sugar thus made (from maize) and sent into commerce is of exceptional purity and uniformity of composition, and contains no injurious substances." G. is used chiefly in the manufacture of table syrups and confectionery, the brewing of sile and beer, and to some extent as food for bees and the making of artificial honey. When fed to bees, the resulting honey is almost pure glucose. G. is largely used in candy making, diminishing the sweetness, though not the wholesomess of the product. For table syrup it is mixed with a small proportion of cane sugar syrup. It is also converted into grape sugar and used to adulterate table sugar.

verted 1300 grape sigar and used to saintterate table sugar.

Glu'coside, n. (Chem.) A substance which, when treated with dilute acids or certain ferments, yields glucose, or a sugar of similar composition. Among these are arbatis, derived from the leaves of arbutus and wintergreen; salicia, from willow bark; excellation from horse-cheetnut bark; amygdalis from oil of bitter almonds, and various others.

Glym, Isabella, a celebrated actress; born in Edinburgh in 1823; made her first appearance in 1847, and speedily became very popular, particularly in such characters as Lady Macbeth, Queen Katheriae, Beltidera, and Hermione. In 1870 she gave very successful dramatic readings in the United States.

Glypto-saurus Glipt'is-sus'ris), n. [Gr. glyptos, curved, and sauros, a lizard.] (Palgon.) A genus of fossil land lizards, discovered in 1871 by Dr. Marsh, of Yale College, in the tertiary deposits of Wyoming, and so named in a lusion to the fact that the head and parts of the body were covered with highly ornamented bony xaie College, in the tertiary deposits of Wyoming, and so named in allusion to the fact that the head and parts of the body were covered with highly ornamented bony plates. Four species have been described, which are readily distinguished by the form and ornamentation of the shields on the head. The largest of these, G. spicestria, was about 4 feet in length; the smallest, G. anceps, apparently about 2 feet. Gma'dem hutten, in Ohio, a post-village of Clay township, Tuncarawas co. Gmatheodem (nat'o-dūn), n. (Orwith.) A genus of birds nearly allied to the Columbids or pigeon tribe. The only known species (G. strigirostris) is rather larger than a partridge, and has the head, neck, breast, and helly of a glossy green-black; the back, wings, tail, and under tail-coverts, of a deep chest nu t-red; the beak and naked part round the ere of a vallousiek color. It is believed to the control of the proof a vallousiek color. It is believed to the control of the proof a vallousiek color. It is believed to the control of the proof a vallousiek color. It is believed to the control of the proof a vallousiek color.



coverta, of a deep chest and under the Fig. 2910.—GNATHODON. beak and naked part round the eye of a yellowish color. It is believed to be a native of one of the South Sea islands. Gmeist, Heinnich Rudolf Hernann Feirdalch, jurist; born in Berlin, Aug. 13, 1816; began his official career as assessor in the Superior Court and rose to be Assistant Judge of the Supreme Tribunal; subsequently devoted himself to teaching; was a member of the Imperial Parliament, and sat in the Prussian lower house as a National Liberal. In 1844 he was appointed to the chair of Jurisprudence in Berlin University. His writings deal principally with the constitutional laws of Germany and England, and in current questions of practical politics in the former country.

Gebang, s. A game played on a checkered board, usually having 256 squares, with 50 colored counters.

Gebineau', etc., Joseph Arrhuz, Compt, diplomatist and author; born at Bordeaux, France, 1816; was secretary of legation at Berne (1851), and at successive periods Ambassador to Persia, Greece, Brazil and Sweden, retiring at his own request (1877). His contributions to literature include: Trois ans en Asie; Histoire des Perses; La Resaissance; Les Cousins d'Isie; and an epic poem. He made a special study of anthropology and philosophy. Died in 1882.

Goblet (gö-bld'), René, politician; born at Airo-surla-Lys, France, Nov. 26, 1828; studied law, and was one of the founders of a liberal newspaper under the empire, and was made procureur-général in the Court of Appeal in Amiens (1870). In the following year he resigned and was elected to the National Assembly, where he distinguished himself as an orator; was Under Secretary of State for Justice (1879): Minister of the Interior (1882). On the downfall of M. de Freycinet's ministry (Dec. 1886), G. formed a cabinet and became premier; the question of the budget (May 17, 1887) was the cause of his overthrow. He was elected to the Senate in 1891.

of his overthrow. He was elected to the Senate in 1891. Sped'dard, Arancula, pianist, born of English parents at St. Målo, France, in 1836. At four years of age she performed a fantasis on themes from Mozart's Don Juon, and, after studying at Paris under Kalkbrenner, played before Queen Victoria at the age of eight. She finished her musical education under Thalberg, and made her first public appearance in 1850 at Her Majesty's Theater, London. Thereafter her career was one of uninterrupted brilliancy, she having performed with ecldt in all the principal cities of Europe and America.

America.

•O'devil, m. (Local.) A scraper in a pipe-line.—A
dynamite cartridge-exploder used in an oil-well to start
a flow.—A kind of rude flow used in clearing.—A rough
wagon used in the woods, or a sledge for transporting



Ged'kin, EDERNE LAWRENCE, journalist; born at Moyne, county Wicklow, Ireland, Oct. 2, 1831; graduate of Queen's College, Belfast; contributor to the London press as correspondent of the London Daily Nees during the Crimean war; subsequently went to the U.S. and was admitted to the bar in New York. He became editor of The Nation in 1856, and its proprietor in the following year. He has given much attention to civil service and revenue reform, and is a leader of the ac-alled "mugwamps."
Ged'win, MARY WOLLFORMEROFT, author; born at Hoxton, near London, England, April 27, 1759. Her works include the fanous Vindication of the Rights of Woman and Moral and Historical View of the French Revolution. Died Sept. 10, 1797.

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works include the famous Vindication of the Rights of Womens and Moral and Historical View of the French Revolution. Died Sept. 10, 1797.
God'wim, Parke, journalist and author, born in New Jersey in 1816; from 1837 to 1835 he was editorially connected with the New York Evensing Post, except for one year, a connection which he resumed in 1865; also edited the Weekly Pultifinder (1843), and Putnam's Monthly, beside contributing largely to the Democratic Review. Wrote several books on political and social topics; Vala: a Mythological Tule: History of France; Out of the Paut; and edited an edition of Bryant's writings, with a biography (1883-84).
Goebel (ga'b'l), Julius, Ph.D., philologist, born in Frankfort-on-the-Main, Germany, May 23, 1875; educated at the University of Leipsic and the University of Tübigen. Held the chairs of German Literature and Philology at Johns Hopkins University; was afterwards professor of the mame subjects at Leland Stanford University; has contributed essays and reviews to periodicals, and published Veber die Tuknuft unsers Volkes in Amerika; Twedeutschen Fruge in Amerika, &c.
Goess'smann, Charles Anthony, chemist; born at Naumburg, Hesse-Cassol, Germany, June 13, 1827; graduate of University of Göttingen. Has resided since 1857 in the U. S. and has been for many years professor of Chemistry in the Massachusetts Agricultural College, at Amherst; appointed chemist to the State Board of Agriculture (1873), and later elected director of the Massachusetts State Agricultural Experiment Station, at Amherst, Mass. Has published valuable papers upon chemical subjects.

Goets, Hermann, composer; born in Königsberg. Prussia, Dec. 17, 1840; studied music in Berlin. His

Chemical Subjects.

Geotis, Hermann, composer; born in Königsberg, Prussia, Dec. 17, 1840; studied music in Berlin. His operas include: The Taming of the Shress, which was produced most successfully at Maunheim in 1894, and Francesca da Elimini, which was not performed until after his death. Died in 1876.

operas include: The Taming of the Shress, which was produced most successfully at Mannheim in 1894, and Proscecc da Rimisi, which was not performed until after his death. Died in 1876.

Goff, Nathan, soldier and jurist, born at Clarksburg, W. Va., Feb. 9, 1842; entered the Union army in 1861, as a private, and served through the Civil War, reaching the rank of major and brevet brigadier-general; began public life as a member of the West Virginia Legislature; was appointed U. S. District Attorney in 1868, and served until 1881, when he became Secretary of the Navy, succeeding R. W. Thompson. He was a member of Congress from 1882 to 1888, and in the latter year ran for Governor of West Virginia, but was besten on a contest after apparently having won. Was appointed a judge of the U. S. Circuit Court of Appeals, in 1892, and in 1897 declined the position of Attorney-General in President McKinley's cabinet.

Gogebie (g0'j-i-bic), in Michigon, ex. N.W. co.; area, 1,115 sq. m. Swrface, somewhat rough and broken; soil, excellent. Drained by Montreal river and other small streams. Contains the largest known deposits of Bessemer iron ore in the world. Manganese, granite, gold and silver have also been discovered. Cup. Bessemer. Pop. (1894) 14,083.

Gold, Extraction of. New methods of extracting gold from its ores have been devised which render it profitable to work materials which formerly were rejected as unavailable. The operation, as ordinarily pursued, consists in crushing the quartz to a fine powder, so as to detach every particle of gold, and subsequently washing away the quartz, leaving the heavier gold behind. To retain the fine particles of gold, quick-silver is used, with which they became amalgamated. The crushing is effected in stamp mills, the larger masses having first been broken into small pieces in a rock breaker. The quicksilver is used in the stamp mills so as to catch the coarser particles of gold, and prevent their being reduced in size; and also in broad amalgamated plates outsile, over which all t

the coarser particles being automatically returned to pass again under the mullers.—The chromic process of saving the gold, as now practiced, employs an electric current as an important aid in inducing amalgamation. Among the various methods employed we may describe the Haycroft. In this the fluely crushed ore is mixed with water in a caldron in which revolves an upright shaft with protruding arms, the effect being to keep the liquid in constant motion. On the arms are carbon shoes which serve as the anodes of the battery. From these the electric current passes to the bottom of the caldron, and in particular to a dish of mercury in its centre which serves as the cathode. Common salt or some other compound of chlorine is added. The current decomposes the salt, whose sodium goes to the centre which serves as the cathode. Common salt or some other compound of chlorine is added. The current decomposes the salt, whose sodium goes to the mercury while the freed chlorine rises and dissolves the fine gold, contact being aided by the constant rotation of the thick liquid. A secondary action now takes place, the chloride of gold being decomposed by the current. The gold goes to the mercury and is amalgamated. The freed chlorine takes up more gold from the rotating liquid and repeats the process.—Chlorine is not the only substance used in this electrical method, cyanogen being also employed. In one cyanide process a mixture of potassium cyanide and cyanogen bromide is used as the solvent with remarkable results.—Artificial depositions. It was discovered some years ago that gold could be made to deposit from its mineral salt in its metallic state on any suitable base, such as iron sulphide; and Mr. J. C. F. Johnson, of Adelaide, Australia, has succeeded in producing such deposits on quartz, yielding a striking resemblance to ordinary auriferous quartz. The gold not only appears on the surface, but thoroughly penetrates the stone, assuming the natural forms, and opening an opportunity for the fraudulent production of seeming gold-bearing rock. This discovery suggests that gold was originally deposited in its quartz matrix in this manner, and may possibly lead to some suggestion for its economical extraction therefrom.

rock. This discovery suggests that gold was originally deposited in its quartz matrix in this manner, and may possibly lead to some suggestion for its economical extraction therefrom.

Gold'em City, in Missouri, a post-village of Barton co., 12 m. E. of Lamar, on K. C., Ft. S. & M. R. R. Has broom, brick and tile factories. Pop. (1889) 773.

Gold'em Text. A text accompanying, and intended to epitomize, a Scripture leason.

Gold'em Texms peter, m. (Ornith.) A South American bird, the Agami (Psophia crepitans), which emits a deep, rough sound, suggestive of a trumpet.

Gold'em Val'ley, in Missussota, a village of Hennepin co., about 3 m. S. W. of Minneapolis. Pop. (1897) about 509.

Gold'em Wed'ding. The fiftieth anniversary of a marriage, usually observed with more than ordinary festivity, by a grand assemblage of the relatives and friends, and presents of gold to the venerable couple.

Gold'emdale, in Washington, a post-village, cap. of Klickitat co., 12 m. N. of Grant, Ore. Has flour mills and other manufactures. Pop. (1897) about 550.

Gold'icheks, w. (Bot.) Various plants, or genera: specifically (1) Lisospris valgaria, a European herb of the aster family; (2) Helicrysum stachas; Ramenchus caricomusa, a buttercup; (4) Hymenophylkem tambridgense, a filmy fern.

Gold'mark, Kari, musician, was born of Jewish

aster family; (2) Heliciyaum stachas; Romenchus astricomas, a buttercup; (4) Hymenophyllum tumbridgense, a filmy fern.

Gold'mark, Karl, musician, was born of Jewish parents in Hungary, May 18, 1832. His operas, The Queen of Sheba and Merlin, are well known in America, and his Country Wedding suite is very popular. Other effective compositions are the overtures Posthesilea and Salvastala. His style is original and rather picturesque, and his orchestration skillful; there is, however, some deficiency in the matter of melodic invention.

Golds'borough, Louis Malasherses, U.S.N., born at Washington, D. C., Feb. 18, 1865; entered the navy when seven years old and was a lieutenant at 20; won fame and the thanks of the English government by rescuing the British brig Comet from a large force of Greek pirates (1827); commanded a company of cavalry in the Seminole War, and was executive officer of the frigate Ohio, at the bombardment of Vera Cruz (1847); explored California and Oregon (1849-51); was commander of the Naval Academy (1853-57); in 1861 had reached the rank of commodors with command of the North Atlantic squadron. He cooperated with Burnside in the capture of Roanoke Island, and by many is given credit for the success of that expedition; rendered other excellent service during the Civil War; was made rear-admiral in 1862, and given command of the European squadron in 1873; retired in 1873, and died Feb. 20, 1877. equadron in 1873; retired in 1873, and died Feb. 20, 1877.

1877.
Gold'schmidt, Hernann, astronomer; born of Jewish parents at Frankfort, Germany, June 17, 1802; pupil of Cornelius, and practiced painting for a number of years at Paris, but finally gare his attention to astronomy. He discovered fourteen asteroids (1852-61); detected thousands of stars which were not marked on atlases before his time, and discovered several new companion stars revolving around Sirius. Died Sept. 11 1862.

companion stars revolving around Sirius. Died Sept. 1, 1866.

Goldschmidt, Meyer Aaron, novelist, born at Verdingborg, Denmark, October 26, 1819; was carefully educated at the University of Copenhagen; founded two weekly journals, The Corasir and North and South. He ranks high among Danish novelists, and his works include: The Homeless One; The Heir; The Racen, &c. Died Ang. 6, 1887.

Go'marites, or Go'marists, s. pl. The followers of Francis Gomar, a theologian, who was born at Renges, Jan. 30, 1563, died at Grünigen in 1641. In 1594 he was appointed professor of divinity at Leyden. In 1603 the celebrated Arminius became his colleague. Gomar, being strongly Calvinistic, opposed the views of

his associate with much seal. When Arminius, about a year before his death, presented a remonstrance to the States-General, Gomar and Lis followers came out so strongly on the other side that they were called Anti- or Contra-Remonstrants. In a disputation at The Hague in 1608, and at the Synod of Bort in 1618, Gomar was so conspictously the leader of the Calvinistic opponents of Arminius that they were called Gomarites.

HAXINO, Cuban patriot and soldier, was born of Spanish parents, about 1832; entered the Spanish military service and reached the rank of major, but resigned in 1868 and cast his fortunes with the Cuban revolutionary party in the ten years war; was elected commander-in-chief of the Cuban forces in 1895, and has had direct command of the army of the East. In common with many other Cuban patriots, G. has spent much time in exile. He is a commander and strategist of high efficiency.

Joneourt (gong-coor), de, Edmonn and Jules, French havealist; the former horn at Narcy May 96.1622 cha

Gomeoust (glog-coor). de, Ednord and Jules. French novelists; the former born at Nancy, May 26, 1822, the latter at Paris, Dec. 17, 1830. Their carliest works were historical studies of the latter part of the 18th communy, representing the habits of life, manners and customs of the people of that period. Of their novels, Medians Gerwissis is the greatest. After the death of Jules, June 20, 1870, Ednond continued writing, and issued, among other works, the popular La Fille Elias. Edmond died July 16, 1896.

Goniophie blums, s. (Bot.) A genus of polypodineous ferns, having the naked globose sori of Polypodineous ferns, having the naked globose sori of Polypodineous ferns, the polypodineous group with netted veins. The peculiar characteristic of Goniophiesium among these is, that the veins are forked or pinnate. Goncourt (conc-com ). de, EDMOND and JULES, French

forked or pinnate from a central costa, the lower anterior branches being usually free and fertile at the apex, and the rest angularly or arcuately anasto-mosing, and pro-ducing from their angles free ex-current veinlets, current veiniets, which are often fertile, the marginal veinlets being free. There are often several series of anasto-



series of anastomosing veinlets,
but so me times
only one. The
free (and in mature specimens usually fertile) veinlet
produced within the basal arcole distinguishes this group
specially from its allies. There are a considerable number of species, found abundantly in South America and
the West Indies and in India and the Eastern and
Pacific Islands.
GOMES IEE, MANUEL, soldier and stateman; born near
Matamoras. Mexico, about 1820; entered the army and

the West Indice and in India and the Lastern and Pacific Islands.

Gomma'les, Manuel, soldier and stateman; born near Matamoras, Mexico, about 1820; entered the army and fought as a guerrilla leader on the side of the reactionists in the civil wars when the country was invaded by the French (1861). He offered his sword to Juarez; continued to serve in the army; was made brigadiergeneral, and appointed governor of the palace by Juarez; afterward joined Diaz, and was made secretary of war when Diaz became president, succeeding the latter in 1880. G. resigned the president, succeeding the latter in 1880. G. resigned the president, succeeding the latter in 1880. Rowwn, naturalist, was born at New Albany, Ind., Feb. 13, 1851; graduated from Wesleyam University (1870), and studied at the Museum of Comparative Zoilogy, Harvard, making a specialty of ichthyology. After 1871 was identified with the Smithsonian Institution, the National Museum, and the U. 8. Fish Commission; represented the U. 8. at the Fisheries Expositions in Berlin (1880) and London (1883); had charge of the fisheries division of the tenth censua; was U. 8. Commissioner of Fisheries (1887-88); after 1887 was assistant secretary of the Smithsonian Institution, and superintendent of the National Museum. Died Sept. 6, 1886.

Good/'ganed, in Konsea, a city, cap. of Sherman co., 36 m. W. of Colby, on C. R. I. & P. R. R. Pop. (1865) 988.

Good/water, in Alabama, a post-village of Cossa co., 18 m. N.E. of Rockford, on Central R.R. of Ga.; hess some local manuf. Pop. (1801) 589.

Goodl'y, a. (Colleq) Mawkishly or weakly good; namby-pamby; having a semblance of plety, with silliness. Often used double; as, a goody-goody sort of person.

Gov'dom, A. J. Baptist clergyman, was born in 1838;

ness. Often used double; as, a goody-goody sort of person.
Gor'don, A. J., Baptist clergyman, was born in 1838; graduated from Brown University (1860) and Newton Theological Seminary (1863); was pastor of the Clarendon St. Baptist Church, in Boston, from 1869 until his death in 1896. Dr. G. was a man of intense spirituality, whose influence was great. He wrote: In Christ; The Missistry of the Spirit, &c.
Gordon, Charles Grozoz, an English general, born 1833. After leaving Woolwich Academy, he entered the army as licutenant of Engineers, served in the Crimeau War (1854), and in 1836 was sent as assistant Commissioner to Bassarabia, to settle the disputed boundary between Russia and Turkey. In 1860 he went to China and took a prominent part in the Tai-Ping releiliou, gaining there his solviquet of "Chinese Gordon." He succeeded in subduing the rebels, was made a Man-

Digitized by GOOGIG

darin in 1863, and left China overwhelmed with testi-

darin in 1863, and left China overwhelmed with testimonials and honors. From 1865 to 1871 he remained at Gravesend with the Engineer Corps. In 1873 he entered the service of the Khedive of Egypt. In 1876 he was made governor of the Soudan, resigning and returning to Engiand in 1879. In 1884 he was sent by England to the Soudan to propitiate the revolting Arabs, and was killed at the taking of Khartoum, Jan. 27, 1885, being overcome by treachery after a determined resistance.

Gerédon, Großen Henra, soldier and politician, born at Charlestown, Mass., July 19, 1824; graduated from West Point, served in Mexico, on the frontier, and with the Coast Survey; resigned from the samy and studied law. Upon the outbreak of the Civil War he joined the volunteer service, reaching the rank of brigadier-general and the brevet of major-general; after the war was collector of internal revenue in Massachusetts. Died Aug. 30, 1886.

Aug. 30, 1886.

Gordon, John B., soldier and statesman, was born in Upson co., Georgia, Feb. 6, 1832; graduated from the University of Georgia, and studied law; entered the Confederate service in 1861, and rose to the rank of licutement-general after a brilliant career in the field, during which he was eight times wounded. G. was sent to the U.S. Senate in the latter year, resigned in 1883, and was governor of Georgia from 1886 to 1890, when he again became U.S. Senator, holding that position until 1897. General G. has lectured extensively on war topics, and has been commander-in-chief of the United Confederate Veterans.

Gorman, Arruer Puz, politician, was born in How-

of the United Confederate Veterans.

Gor'sman, Arthur Puz, politican, was born in Howard co., Maryland, March 11, 1839, and was educated in the public schools; entered the service of the U. S. Senate as page, in 1852, and rose to the position of post-master of that body in 1866, in which year he was appointed collector of internal revenue in the 5th Maryland district; elected a member of the Maryland legislature (1869), speaker of that house (1871), State senator (1879); succeeded William Pinckney Whyte in the U. S. Senate on March 4, 1881, and was re-elected in

senator (1879); succeeded William Pinckney Whyte in the U. S. Senate on March 4, 1881, and was re-elected in 1886 and 1892. He became a director of the Chesn-peake & Ohio Canal Co., in 1869, and its president in 1872.

Gor'ringe, Henry Honrychusch, U.S.N.; born at Bartados, West Indies, Aug. 11, 1841, and educated there; went to the U.S. in his youth; entered the navy and rose to the rank of commander. In 1878 leave of alsence was given him for the purpose of conveying the obeliak known as "Cleopatra's Needle" from Egypt to New York, which difficult task he safely performed. He afterward resigned from the navy and engaged in shipbuilding. Author of a History of Egyption Obeliak. Died July 7, 1885.

Gort'schakoff, Prince Alexander, statesman and diplomatist, born in Russia about 1800, represented Rus-

Died July 7, 1880.

Gorf'schakeff, Prince Alexander, statesman and diplomatist, born in Russia about 1800, represented Russia at various European courts, and in 1856 negotiated the peace between Russia and the western powers. In 1856 was appointed Minister of Foreign Affairs, and greatly distinguished himself in 1863, during the Polish insurrection, by preventing foreign intervention; in 1862 appointed Vice-Chancellor, and 1863 Chancellor of the empire. In 1870-71 was instrumental in terminating the treaty of Paris in relation to the Black Sea. He was influential in the settlement of most of the great European questions of the quarter of a century before his death, though his influence declined after the outbreak of the Russo-Turkish war of 1877, and he was thwarted at the Congress of Berlin by Bismarck and Besconafield. He was superseded as minister by M. de Giers in 1882, and died at Baden-Baden, March 1, 1883.

Goef peel-was on, s. A large covered vehicle, usually opening on one side; carrying a musical instrument and a number of people who go from one locality to another singing and preaching to the people that gather on the street.

gather on the street.

See per, in Nebraska, a S. co.; area, 486 eq. m. The Platte river touches its N.E. border. Surface, nearly level. Cop. Elwood. Pop. (1890) 4,816.

Jessee, Philip Harry, naturalist, born at Worcester, England, April 6, 1810; engaged in mercantile businesse in Newfoundland, but devoted his leisure to collecting and making drawings of insects. In his researches he journeyed through the U.S., where he gave special attention to butterflie; also travelled in Jamaica, and spent some time on the English seacoast in zoilogical study. His works include: The Causdion Naturalist; Birds of Jamaica, and Atlas of Illustrations; History of the British Sea Auemones and Corule, &c. Died Aug. 23, 1888.

the interest Sea Amenones and Corals, &c. Died Aug. 23, 1888.

Get. François Jules Ednond, comedian, born at Lignerolles, France, in 1822; studied at the Conservatoire, Paris, became a member of the Comédie Française in 1844, and soon made his way to a leading position on the French stage. His best characters were: Giboyer in Angler's Efront's and File de Giboyer, Bernard in Les Fourchamband, Jean in Rankon, and Fermier in Vincentie. He formed a travelling company of actors in 1867 and gave representations of La Contapion throughout France. In 1881 he was created a Knight of the Legion of Honor, being the first French actor to attain this distinction. He has no tragic roles, but in comedy its considered the foremost actor in France.

Geth'emburg, in Nobraska, a post-village of Dawson co., 60 miles W. of Kearney, on Un. Pac. R. R. Pop. (1890) 535.

(Law.) enburg System. A system legth emburg System. (Low.) A system of state licensing of liquor selling, originated in Gother trol of the business was given to a company licensed by the municipality, and paying all the profits of the dealy effected.

business beyond 5 per cent, into the town treasury.

business beyond 5 per cent into the town treasury. The effect of this system has been an improvement in the quality of liquor sold, and a decrease in the quantity consumed; the use of the saloons as places of lounging resort having been broken up. A somewhat similar system has recently been inaugurated in South Carolina, where the business has been brought, by law, under State control, it being managed by agents appointed by the authorities.

Gettschallk (god\*abacek), Lours Morray, planist and composer; born in New Orleans, 1829. At the age of twelve he was sent to Paris, where he later formed the acquaintance of Hector Berlioz, and made his first appearance as a pianist. He gave his first concert in America on Feb. 11, 1853, and at once attained great celebrity. His best compositions are Le Bossonier; Le Sacane; Ricordati; Le Rarch de Naii; O ma Charmante; Le Rancendiller; Reponds mod, and Opc Orloido. G. was, however, precimiently a pianist, and the dedicace and force of his touch placed him in the history in Mexico; the West Indies, and South America, dying at Rio Janiero, Dec. 18, 1869.

Gented, Accurrus Andrew, naturalist; born in New Hampshire in 1805, graduated at Harvard in 1825, and commenced the practice of medicine in Boston, in 1831. His withings comprise: A System of Natural History (1832), and The Mollusca and Shells of the United State Exploring Expedition usader Ringoold and Bodgers (1860). In 1848 he produced, in conjunction with Professor Agassiz, Principles of Zollogo, Died Sept. 15, 1866.

Goulled, BENJAMIN APTHORP, astronomer, born at Boston, Mass., Sept. 27, 1824; graduated at Harvard; afterward took a degree in mathematics and astronomy at Göttingen under Gause; visited the chief observatory at Goulder, and the produced in conjunction with Professor Agassiz, Principles of Zollogo, Died Sept. 15, 1866.

Goulled, BENJAMIN APTHORP, astronomer, born at Boston, Mass., Sept. 27, 1824; graduated at Harvard; afterward took a degree in mathematics and control of the Etc. 1860.

Goulled, Jav, fluan

low'rie, in Iowa, a post-village of Webster co., 21 m. S. of Ft. Dodge, on C., R. I. & P. and C. & N.W. R.Rs. Pop. (1895) 628.

Pop. (1895) 628.

Grab bag, s. (Collog.) A bag containing various articles, one of which may be drawn at random on the payment of a certain sum; used to raise money at fairs, &c. Hence, any uncertain or questionable scheme for

Gra'dy, Henry Woodfin, journalist; born in Athens, Ga., 1851; educated in the universities of Georgia and Virginia. After the close of the Civil War he entered journalism and became joint proprietor and editor of the Constitution of Atlanta (1880). In his editorial management of this paper he gained great celebrity and took rank among the ablest of American editors. His addresses on The New South and on The Privac of the Negro were widely read both in the South and North. Atlanta has erected a monument and a public hospital to his memory. Died Dec. 23, 1889.

Graf, Karl Heinnich, a disciple of Reuss. It is to Reuss formulation of the Pentateuch that Graf's name is commonly attached. General attention was called

Graf, Karl Heinrich, a disciple of Reuss. It is to Reuss' formulation of the Pentateuch that Graf's name is commonly attached. General attention was called to the theory already independently set forth by Leopold George and Wilhelm Vatke, by Graf's Die Geschichlichen Bücher des Allen Testaments. This work maintained that the middle books of the Pentateuch bore in themselves the clearest traces of their post-exilic authorship. He also wrote: De Templo Bilomensi; Der Segen Moses Erklärt, &c.
Graffiti, m.pl. [Ital. scratches, from graffare, to scratch.] (Archaed.) Rude inscriptions found on stones and buildings of ancient date, chiefly in Italy. The antiquity of these is proved from their being in the Latin, old Italian, and Greek languages. In character they are nearly all worthless, being usually the work of rude scribblers, their antiquity giving them their chief interest, except in the case of those in the catacomis. C. have been found in the substructures of Nero's Golden House, the Palace of the Casara, &c., and in still greater numbers in Pompeii and in the catacomis. These scratches and scraws, rude as they are, sometimes give significant indications of ancient customs and modes of thought. In one instance, found in a chamber of the palace of the Casara, there was a caricature of a man worshipping an ass that hung on a cross, with the explanation appended that this referred to the Christian worship. The term graffito decoration is given to deeply engraved lines and patterns on walls, intended for ornament.

Graffiting, Skim. See Rhinoplasters.

man worshipping an ase that nung on a cross, with the explanation appended that this referred to the Christian worship. The term grafile decoration is given to deeply engraved lines and patterns on walls, intended for ornament.

Graftom, in North Dakota, a city, cap. of Walsh co., 40 m. N. of Grand Forks, on Gf. Nor. and Nor. Pac. R. Rs., the trade center of a large wheat raising district, has flour mills and other industries. Pop. (1890) 1,594.

Grafhams, Charles Kinnahr, U.S.N.; born in N. Y., June 3, 1824; was liberally educated; became a midshipman in the U. S. Navy; gave his attention to the study of engineering-science, and was appointed constructing engineer of Brooklyn Navy 1ard, in 1887. He served as a soldier throughout the Civil War; was made brigadier-general and brevetted major-general of volunteers. After the war he became chief engineer of the department of docks (1873); surveyor of the port of New York (1878), and naval officer from 1883 to 1885. Died April 15, 1889.

Graham, Janez Duncan, U.S.A., born in Prince William co., Va., April 4, 1799; graduated from the U. S. Military Academy. He began his army life as third lieutenant of artillery, July, 1817, flually attaining the rank of colonel of engineers. Among the commissions held by him was that of chief of the scientific corps and principal astronomer to determine the boundary between the U. S. and the British provinces. He also had charge of harbors on the North Atlantic coast. Died Dec. 28, 1865.

Grahams, William Alexanders, statesman, born in Lincoln county, N. C., Sept. 5, 1804; graduated at the University of North Carolina; studied law; was U. S. Senator from North Carolina (1841-43); governor of that State (1845-49); Secretary of the Navy under President Fillmore; Whig candidate for Vice-President (1862); member of the Confederate Senate (1844), &c. Died Ang. 11, 1875.

Grahams, in Arisona, a B.E. county; area, 6,152 eq. m.; is intersected by fils river. Englace, mountainous, with measa and valleys. Mis. Gold, sliper, copper and coal.

Arthur's knights, after a life spent in war and wassall, on the holy task of finding this holy cup, which is achieved only by those who had lived a life of purity and chastity. In the oldest legends the Grail is simply a miraculous, food-producing vessel, an ancient Celtic talisman, one of three, of which the others are a lance that drops blood and a broken sword which only the destined here can make whole. This legend became that drops blood and a broken sword which only the destined here can make whole. This legend became the this language of the fall many others of the heathen conceptions, and the talismanic vessel became the H. G.—or Bungreal of later legend—a cup connected with Christ; and in quest for it a new here, Sir Galahad, appears, a type of chastity and virginity, who alone is fully worthy to complete the holy task. The Quest is one of the romances worked by Malory into his Morte D'Arther, through which the story of Sir Galahad has had an abiding influence upon English literature, through the writings of Tennyson and others. See Alfred Nutt's Skadies on the Legend of the Holy Grail (London, 1888).

Grain El'evators. See ELEVATORS.

Grain El'evators. See Elevators.

Grammont'ians, n. pl. [Grummon, in Limoges,
where the order was first established.] A monastic
order founded A. D. 1073, with the sanction of Pope
Gregory VII., by Stephen of Thiers, sometimes called
Stephen de Muret. His rules enjoined poverty, obedience, silence, and abstinence from animal food. The
order was established in England about A. D. 1100, in
several blaces.

ence, site is extablished in England about A. D. 1100, in several places.

Gram'ophome, w. [Gr. gramma, letter, and phose, sound.] An instrument similar to the phonograph for recording and reproducing speech, invented by E. Berliner about 1895. It employs, instead of a wax cylinder, a circular plate or disk of metal covered with a film of finely divided oil or grease, on which the record is made by the tracing point in a sinuous spiral line. This record is subsequently etched into the metal by any suitable means, or is photographically reproduced on another sheet of metal. Glass covered with a deposit of soot is sometimes used. The sounds are reproduced by causing the point attached to the diaphragm to pass over the metal plate as it is rotated and the vibrations of the displaringm give forth the sounds. See Gramphophons; Phonograph.

Gram'bury, in Texas, a post-town, cap. of Hood co., 40 m. S.W. of Fort Worth, on Ft. W. & Rio G. R.R.

See GRAPHOPHONS; PHONOGRAPH.

Gram'bury, in Texas, a post-tuwn, cap. of Hood co., 40 ns. Sw. of Fort Worth, on Ft. W. & Rio G. R.R. Pop. (1890) 1,164.

Gramd. in Oklahoma, a post-village of Day co., 16 m from Higgins, Texas, the nearest railread station.

Gramd Ar'my of the Republic. A secret fraternal organization of soldiers who served in the Civil War of 1861-'65, and were honorably discharged. The idea was first suggested in Feb., 1866, by Dr. B. F. Stephenson, of Springfield, Ill., who had been a surgeon in the 14th Illinois infantry, and the organization of lost I was effected at Decatur, Ill., April 6, 1866. Of the twelve chaster members, all but one had served in Illinois regiments. Post 2 was soon formed at Springfield, and other posts were thereafter rapidly established in Illinois regiments. Post 2 was soon formed at Springfield, and other posts were thereafter rapidly established in Illinois and the neighboring States. A convention was held at Springfield, Ill., July 12, 1866, and Gen. John M. Palmer was chosen department commander-in-chief, assumed charge of the organization of posts in other States. The first National Convention was held in Indianapolis, March 20, 1866, with representatives from Indiana, Iowa, Illinois, Kansas, Kentucky, Missouri, New York, Ohio, Pennsylvania, Wisconsun, and the District of Columbia. Gen. John M. Palmer presided. Gen. Stephenson adjutant-general. The following rules were adopted: "(1) We, the soldiers and sailors, and honorably discharged soldiers and sailors of the Army, Navy and Marine Corps of the U. S., who have consented to this union, having aided in maintaining the honor, integrity, and supremacy of the national government during the late rebellion, do unite to ordain and establish the following rules and regulations for the government of this association. (2) The association shall be known as the Grann Army of the Republic. (3) The objects to be accomplished by this organization are as tollows: (4) Fraterwity. To preserve and strengthen those kind and frat respect for, and fidelity to, its Constitution and laws; to discountenance whatever tends to weaken loyalty, incites to insurrection, treason or rebellion, or in any manuer impairs the efficiency and permanency of our free institutions; and to encourage the spread of universal liberty, equal rights, and justice to all men. Soldiers and sailors of the U. S. Army, Navy, or Marine Corps, who served between April 12, 1861, and April 9, 1865, in the war for the suppression of the rebellion, and then having been honorably discharged therefrom after such service, and of such Nate reciments as were and then having been honorably discharged therefrom after such service, and of such State regiments as were called into active service and subject to the orders of the U.S. general officers between the dates mentioned, shall be eligible to membership in the G. A. of the R. No person shall be eligible to membership who has at any time borne arms against the U.S." The second, Eucampment met in Council Chambers, in Independence Hall, Philadelphia, Jan. 15, 1868. Gen. John A.

	<b>L</b>		G-11-1
N. P. (	hapman, adjutant-gen	eral. Subsequent annual ampment have been held	Gram'ger, Gideon, statesman, born at Suffield, Conn., July 19, 1767; graduated from Yale (1787); was called to the bar and became prominent as a lawyer; member of the Connecticut legislature; Postmaster-General of the United States (1801); State senator (1819—1821) He later removed to New York State, and was a firm
1869 1870 1871 1872 1873 1874 1875 1876 1877 1879 1880 1881 1882 1883 1884 1886 1887 1889 1891 1892	Cincinuati, O	JOHN A. LOGAN. JOHN A. LOGAN. A. E. BURNSIDE. A. E. BURNSIDE. CHARLES DEVENS, JR. CHARLES DEVENS, JR. CHARLES DEVENS, JR. JOHN F. HARTRAMFT. JOHN C. ROBINSON. JOHN C. ROBINSON. WM. EARNSHAW. LOUB WANNER. GEO. S. MERRILL PAUL VAN DERVOORT. BOTT. B. BEATH. JOHN S. KOUNTS. S. S. BURDETT. LUCIUS FAIRCHILD. JOHN S. ALGER. WM. WARNER. R. A. ALGER. WG. VEAZET. JOHN PALMER. A. G. WEIGEKET. J. G. B. ADAMS. T. G. LAWLER. I. N. WALKER.	advocate of the building of the Eric canal and other public improvements. Died Dec. 31, 1822.  Gram'geriams, s. The practice of illustrating some particular book with engravings forn from others; so called from Rev. James Granger, whose Biographical History of England (1769) was thus illustrated.  Gram'gers, s. pl. (Sociol.) An American society of agriculturists, founded in 1876, by a government clerk named Kelly, who called the society "Patrons of Hoslandy." It is a secret society, with a ritual and four orders for men and women, its purpose being the social improvement and industrial benefit of the farming population. The meetings are made enjoyable by assic and literary exercises, while libraries have been formed at the rooms of assembly. The interests of farmers are looked after by organizations for that purpose and the advocacy of newspapers. Political discussions are not permitted at the meetings. In 1871 there were only about 200 granges; in 1875 there were 30,000. Dissensions afterward interfered with the progress of the order, and it declined in strength, but in 1896 claimed to have established in all 27,378 subcordinate granges in 48 States and territories.  Grange' wille, in Idaho, a post-town of Idaho co., 62 miles S.E. of Lewiston; has flour mills and a brewery. Pop. (1887) about 850.  Grangite Falls. in Missence. 2 of Vellow Caramide Falls. in Missence.
1896 1897	St. Paul, Minn Buffalo, N. Y	Thaddeus 8. Clarkson. John P. S. Gobin.	Medicine co., 70 m. W. of Glencoe, on C., M. & St. P. and Gt. N. R. Ra.; has flour mills, foundry, &c. Pop.

Posts.

Grand Camon (kdwyon), in Colorado, a chasm of the Colorado river, 217 m. in length, to which should be added Marble Canon, with which it connects, 69 m. long, making together 286 m. The average depth of the G. C. is a little over 5,200 ft.; its maximum depth is 8,300 ft., which is maintained for about 50 m. This great depth, which far surpasses that of any other canon in the world, is believed to have been entirely excavated by the driver which is supposed to have been entirely excavated. by the river, which is supposed to have begun its course on the surface of the plain. The G. C. has been several

on the surface of the plain. The G. C. has been several times traversed by loating parties, though it is rendered exceedingly dangerous by rapids and falls. Grand June'tion, in Colorado, a city, cap, of Meaco, 39 m. S.W. of Glenwood Springs, on four milroad lines; bas cigar factory, flour, lumber, planing and saw mills. Gold, silver, copper, asphalt, coal and building stone are found in the vicinity. Pop. (1887) about 4,000. Grand Junction, in Iosea, a post-town of Greene co., 38 m. S. of Ft. Dodge, on C. & N. W. and C. R. I. & P. R. Rs.; has cheese factory and manufactory of wagons and buggies; coal mines in vicinity. Pop. (1886) 1,011. Grand Stand. (Games.) The principal stand from which to view the races, or any game or public exhibition.

miles S.E. of Lewiston; has nour mills and a orewery. Pop. (1897) about 850.

Gram'ite, in Maryland, a post-town of Paltimore co.; has several granite quarries. Pop. (1890) 678.

Gramite Falls, in Misnesota, a city, cap. of Yellow Medicine co., 70 m. W. of Giencoe, on C., M. & St. P. and Gt. N. R. Rs.; has flour mills, Sundry, &c. Pop. (1998) 13 60.

and Gt. N. B. Date in the large of New Hamp-shire, whose rocks are largely composed of granite. Gram'ite Wille, in Missouri, a post-village of Iron co.

Gram'iteville, in Missouri, a post-village of Iron co. Pop. (1880) 721.
Gramite-ware. A kind of iron ware coated with an enamel that resists heat and acids and has the appearance of grante.
Grammaichele (gräm-mich-d'la). A town of southern Italy, province of Sicily, 30 m. S.W. of the city of Catania.

Grammichele (grds-makh-d'ls). A town of southern Italy, province of Sicily, 30 m. S.W. of the city of Catania.

Gramt, Sir Alexander, born at Dalvey, 1826; educated at Harrow and Ballol College, Oxford, graduating B.A. and elected to an Oriel fellowship. Besides boldding other positions he was principal of Elphinstone College, Madras, vice-chancellor of Eigin College, Bombay, and (1888) principal of the University of Edinburgh, a position which he held until his death. Author of: Elice of Arisola; Story of the University of Edinburgh, a continuous of the Club of the University of Edinburgh, at the universities of Edinburgh and Glasgow, and that of E.C.L by Oxford. Died Dec. 1, 1884.

Gramt, James anilitary novelist, born in Edinburgh, Aug. 1, 1822. Died May 5, 1887.

Gramt, Sir James Alexanders, M. B. C. S., physician, born at Invernees, Scotland, Aug. 11, 1830; graduated in medicine at McGill College, Moutreal, and began practice in Ottaws; represented the county of Russell for eight years in the Dominion Parliament; president of the College of Surgeons of Ontaio and member of many learned societies, both of Europe and Annerica; knight-commander of the Order of St. Michael and St. George. His contributions to medical literature were numerous and valuable. Died Feb. 11, 1892.

Gramt, James Augustus, African traveller; born at Nairn. Scotland, in 1827; educated at Marischal College, Aberdeen; entered the Indian army, and rendered gallant service at the battle of Gujerat; was also present at the relief of Lucknow. In 1863, in company with Captain Speke, he explored the sources of the Nile; took part in the Abyssinian Expedition (1868) receiving a medal for his services; also the gold medal of the Royal Geographical Society. Author of: A Walk Across Africa; Bossey of the Speke and Grant Expeditions, &c. Died Feb. 11, 1892.

Grant, Sir James Hore, solder; born at Kilgraston, Perthabire, Sootland, July 22, 1808; engaged in the Chinese are of 1949 and part across die the Speke and Grant Expeditions.

Across Africa; Botseny of the Speaks and Greent Expeditions.
Across Africa; Botseny of the Speaks and Greent Expeditions.
Across Africa; Botseny of the Speaks and Greent Expeditions.
Climant, Sir James Hope, soldier; born at Kilgraston,
Perthahire, Bootland, July 22, 1808; engaged in the
Chinese war of 1842, and next served in the two Sikh
wars; took part in the war against China (1859) as
commander, and for his capture of the capital was
created a K.C.B. Commanded the army of Madras from
1861 to 1865, and after his return to England was made a
general. Incidents in the Sepoy War, and Incidents in the
China War were edited from his journals by Captain H.
Knollys. Died March 7, 1875.
Grant, Sir Patrick, soldier; born at Auchterblair,
Strathspey, Scotland, 1804; entered the service of the
East India Company, and in 1857 commanded the army
of Madras. Appointed governor of Malta (1867); general and colonel of the 78th Highlanders (1870); field
marshal and governor of Chelsea Hospital (1872). He
was made colonel of the Royal Horse Guards, and
received many other honors. Died March 28, 1885.
Grant, Rober, author; born in Boston, Mass., Jan 24,
1852; graduated at Harvard, and practiced law in
Boston. His published works include: Little Tim Gods
on Wheels; The Confession of a Privolons Girl; An
Arrenge Man; The Opinions of a Privolons Girl; An
Arrenge Man; The Opinions of a Privolons Girl; An
Arrenge Man; The Opinions of a Penicopher; Face to
Face, and several other books of a seni-humorous character, in which human nature is well portrayed.
Grant, in Louisiesa, a central parish; cree, 646 sq. m.;
bounded on the E. by Little river, on the 8 W. by Red
river. Surface, nearly level; soil, fertile. Cap. Colfax.
Pop. (1890) 8,270.

Digitized by GOOGLE

Grant, in Missesota, a W. county; area, 576 sq. m.; drained by the Pomme de Terre and Mustinka rivers. Serfuce, undulating prairie, abounding with small lakes. Products, much wheat, also cats, corn, barley, flax, potatoes; live stock. Cap. Elbow Lake. Pop. flax, potatoes; (1895) 7,987.

lakes. Products, much wheat, also cats, corn, barley, fax, potatoes; live stock. Cap. Elbow Lake. Pop. (1895) 7,987.

Grant, in Nebraska, a W. central county; area, 720 sq. m. Surface, hilly; soil, sandy. Products, hay and vegetables. Stock raising is the chief occupation. Cap. Hyannia. Pop. (1890) 468.

Grant, in New Mexico, an extreme S.W. county; area, 9,300 sq. m. Surface, partly mountainous; soil, fertile in the valleys. Minerals, gold, silver, lead, copper and iron. Cap. Silver Lake. Pop. 9,657.

Grant, in Oklaboma, a N. county; is intersected by the Sait Fork of the Arkansas river. Cap. Pond Creek. Pop. (1887) about 14,000.

Grant, in Oregon, an E. central county; area, 5,472 sq. m.; intersected by John Day river and its N. fork. Surface, partly mountainous, much forest; soil, fertile; good cattle and sheep ranges. Products, wheat, oats, barley, potatoes and hay. Stock raising is the chief occupation. Lumber is largely exported. Cap. Cafion City. Pop. (1890) 5,080.

Grant, in South Dukota, a N.E. county; area, 690 sq. m. Surface, undulating: timber scarce; soil, fertile and well watered. Cap. Milbank. Pop. (1895) 7,682.

Grant, in West Virginia, a N. E. co.; area, 490 sq. m. drained by the N. and S. branches of the Potomac river. Surface, mountainous, much of it in foreste; soil, fertile in the valleys. Cosl, iron ore and limestone are abundant. Corn, wheat and live stock are the staples. There are sulphur and chalybeate springs in the co. Cap. Petersburg. Pop. (1890) 6,802.

Grant, in Wisconsin, an extreme S. W. co.; area, 1,30 sq. m.; bounded on the N. W. by the Wisconsin river, on the S. W. by the Mississippi river, and also drained by Grant and Platte rivers. Surface, diversified by ridges, valleys and extensive forests; soil, very fertile. Lead and zinc abound. Cap. Lancaster. Pop. (1895) 38.372.

Grant Lale. in Misse, a post-town of Aroostook co.; her accept any mills. Pon. (1890) 961.

38.372. Isle, in Maiss, a post-town of Aroostook co.; has several saw mills. Pop. (1890) 904.

Grant's Pass, in Oreyos, an important town, cap. of Josephine co., 300 m. S. of Portland, on So. Pac. R. R.; has railroad shops, planing mills, sash, blind, and door factories, saw and shingle mills, &c.; is the shipping point of an extensive mining and farming country. Pop. (1897) about 2,750.

Grant'slle, Granville George Leveson-Gower, 2n Earl or, diplomatist and statesman, born in London, in 1815; was educated at Eton and Oxford. In 1836 he entered the House of Commons, and in 1840 became Under-Secretary of State of Foreign Affairs. In Dec. 1851, he became Foreign Secretary, President of the entered the House of Communs, and in 1000 became the Council of Ministers in 1853, and leader of the House of Lords. In 1862 he served as chairman of the great exhibition held in London; represented his country as ambassador-extraordinary to Russia at the coronation of Alexander II., in 1858; was made Lord Warden of the Cinque Ports in 1855; Secretary of State for the Colonies in 1868; and Foreign Secretary (for the second time) in July, 1870. On Gladstone's return to power (1880-85) he was made Secretary for Foreign Affairs. Died March 31, 1891.

Grape Creek, in Illinois. a post-village of Vermillion co., on C. & E. Ill. R. R. Pop. (1880) 778.

Grape Cul'ture. (Apric.) The attempted culture of the European grape in the U. S., in the early days of the colonies, proved a failure, no part of the country except the Pacific slope proving adapted to it. The cause of the failure was, though not then recognized, which proved more injurious to the European than the next in species.

cause of the faiture was, though not then recignized, the downy mildew and the root insect or phylloxers, which proved more injurious to the European than the native species. The European grape having failed, attention was paid to the native varieties, a vineyard of wild vines having been set out in Massachusetts as early as 1629. But the cultivation of the native grape was not actively engaged in until near the end of the 18th century, when a chance variety of the fox grape, known as the Alexander, was introduced into the plantations on the Ohio river. From this has descended, in great measure, the later popular varieties of American grapes—the Isabella, Catawba and Diana being early examples. The Catawba, introduced about 1820, continues a favorite grape. Still more popular is the Concord, introduced in 1863, with which the profitable culture of the grape began. In addition to the fox grape, other native species have been cultivated, one of which, Vitis riparia, has been introduced and is largely used in France and other countries of Europe as a stock on which to graft the wine grape, it successfully resist-

which, National and other countries of Europe as a stock on which to graft the wine grape, it successfully resisting the attacks of the phylloxers. Many attempts have been made to hybridize the fox and the European grape, but not with important results. The Scupperning grape of the South (V. rotandifolia) has also given rise to cultivated varieties.—In 1890, according to the U.S. census, 188,031 acres were devoted to G. C. in the Eastern U.S., New York leading in the production of table grapes and Ohio coming next. The wine production of the Pacific slope, where the European grape is grown, 14,622,000 gallons, while a large raisin crop was also raised. The phylloxera is invading this region, and the native grape may have to be substituted for foreign varieties. There are in North America at least 25 native species of grape, while more than 500 indigenous varieties are cultivated.

Grape'-cure, s. (Hygiene.) The employment of grapes, or of certain parts of them, as a diet for the relief of disease. Various ailments are treated in this

manner in Germany, Austria, Hungary and Switzerland, though to but small extent elsewhere. In this mode of cure, the skins and seeds are ejected, and the pulp and juice alone eaten, it being usual to begin with a pound or two of grapes daily, and gradually increase to 6 or even 12 pounds. The effect is cooling, thirst is appeased, the kidneys and bowels are stimulated, and the appeatite is increased. When proper amounts and kinds of food are taken with the grapes, admirable effects often result. It may be that the location of the various G. establishments in healthful regious aids the treatment; but there can be no doubt that the grape diet has a beneficial effect in very many cases.

there can be no doubt that the grape diet has a bene-ficial effect in very many cases.

Grape'vine Disease'. (Estomol.) Of the insects destructive to the vine the most injurious is the form known as Phyllocera castatic, or grape gall-louse, a North American insect which first became known to North American insect which first became known to naturalists in 1854 as a parasite on the vine, and to which has been ascribed the failure of the European vine (Vitis rinifera) in the U.S. It appeared in Europe about 1863 (being probably carried from the U.S.), and in that country has caused immense damage, the monetary loss from its ravages in France alone far exceeding that from the France-German War. The exceeding that from the Franco-German War. The eggs of this species are laid under the bark of the vine, lying dornant during the winter, but develop in April or May into a wingless but voracious grape-louse. It is like a small aphia, about the twenty-fifth of an inch long, with thick, three-jointed antennee, short, thick lega, but with no trace of the honey-tubes of the aphides. In this form it may pass to the leaves and lay there parthenogenetic eggs, which form galls; but in Europe it attacks the roots and lays there its eggs, from which mature females develop in about 20 days, which lay more eggs in the roots. Half a dozen of these parthenogetic generations take place during of these parthenogetic generations take place during days, which lay more eggs in the roots. Half a dozen of these parthenogetic generations take place during the summer. The winged females appear from August to October, each of them laying about four eggs on the under surface of the leaves. From these, late in autumn, are born the sexual forms, males and females, destitute of wings and of the piercing and sucking mouth organs, which migrate to the stem, where each female lays a single egg under the bark. These are the winter eggs above mentioned, from which the complex "alternation of generation" begins again the

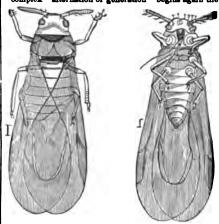


Fig. 2912.—PHYLLOXERA VASTATRIX. Dorsal and ventral view of the winged female, magnified twenty times.

next year. The effect of this parasitic scourge is to cause the roots to become knotted and deformed, the whole plant suffering from its attacks, and eventually dying, after perhaps a survival through several seasons. The destruction of this pest without injury or destroying the plant has so far proved impracticable. Water, wherever it can be applied so as to keep the soil for a time saturated, is the most effectual destroyer, as the time saturated, is the most effectual destroyer, as the insect cannot long survive in water. Chemical remedies are too expensive and too difficult to apply to the roots. The only remedy in any way promising is that recently adopted in France—the planting of American species of grape, to form a stock on which to graft the cultivated vines. The insect attacks the American rise but the security of the state of the security of the cultivated vines. The insect attacks the American vine, but this seems to have superior powers of resistance. Another method of extermination has been the reproducing of some of the numerous natural enemies of the phylloxers, which include Thrips, Aphides, &c. Graphel'ogy, s. [Gr. grapho and logos.] The science of estimating character or determining personality by examination of the handwriting.

Graph'ophone. 5 [Gr. grapho and whome.] An

examination of the handwriting.

Fraph'ophone, s. [Gr. grapho and phone.] An apparatus for recording and reproducing articulate speech, a modification of the phonograph, the joint production of Messra. Alex. Graham Bell, C. A. Bell and Sumner Tainter, their object being to produce a practical machine. They experimented to find a suitable substitute for the tin-foil used on the cylinder, and fixed upon a surface made of a mixture of besswax and interest of the surface made of a mixture of the surface made of the can be used in the form of either the cylinder or the disk. The G. employs two separate diaphragms, one for speaking and the other for hearing. A uniformity of rotation of the recording surface is obtained by means of a motor pro-

vided with a suitable governor. For commercial purposes the G takes the place of the stenographer. Correspondence dictated to the G is reproduced for the copyist at any time. For entertainment, there is no limit to the variety of speech and of vocal and instrumental music that can be recorded and reproduced as occasion requires. See Phonograph.

Graph'oscope, s. [Gr. grapho and skoped.] An optical appearates for magnifying and giving fine effects to engravings, photographs, &c. Invented by C. J. Rowsell; exhibited in 1871.

Grass Cloth. (Pabrics.) A name given by travellers to different kinds of coarse cloth made by savage tribes though grass rarely forms its fiber. Cloth has

to different kinds of coarse cloth made by savage tribes, though grass rarely forms its fiber. Cloth has been made, however, from bamboo and a coarse matting

been made, however, from bamboo and a coarse matting esparto, which are true grasses; and a fine cloth is woven from the fiber of what is called China-grass, which is really a nettle. The Queensland grass-cloth plant, which yields a fine, strong fiber, is also a nettle. Frass Trees or Black Boys. (Bot.) The names given certain plants of Australia and Tasmania, which resemble the yucca in habit, and bear long, grass-like leaves, which are used as food for cattle. The tender base of the leaves is agreeably edible, while the tree abounds in a medicinal balsanic gum. The grass tree or black boy gum is exceedingly profife and abundant, and has been recommended as a source of illuminating and has been recommended as a source of illuminating

or black boy gum is exceedingly prolific and abundant, and has been recommended as a source of illuminating gas, and also of picric acid.

Grava'mem, s. [Lat.] The substantial cause of an action at law; the ground or burden of complaint; that part of an accusation which weighs most heavily against the accused—A representation; a motion; specifically a motion proposed in convocation.

Grav'elotte, a small village of Germany, situated in Alsace-Lorraine, 8 m. W. of Metz, on the Moselle. At this place, on Aug. 18, 1870, the French under Marshall Bazalue were defeated by the Germans under Gen. Steinmets and Prince Frederick Charles. The battle of Gravelotte, which decided the fate of Metz, was very bloody, the loss of the Germans being about 20,000, and that of the French about 13,000. The French army, after its defeat, was shut up in Metz, and was finally surrendered prisoners of war.

Grav'ity Bal'tery. A form of double fluid battery in which the fluids range themselves at different heights in a single jar by virtue of their different specific gravities.

Grav'ty Ball'road. A railroad in which the care

gravities. Gravity Rail'road. A railroad in which the cars move down a series of inclined planes by their own weight alone, being drawn up to the various summits by cables or otherwise.

move down a series of inclined planes by their own weight alone, being drawn up to the various summits by cables or otherwise.

Gray, Elibra, inventor; born at Barnesville, Ohio, Aug. 2, 1835; studied at Oberlin College, supporting himself by his trade of carpentry and locat building; improved the electric telegraph, and manufactured telegraph apparatus, visiting Kurope for purposes of study. Among his patents, which number about fifty, many relate to the speaking telephone, the invention of which he claims. He is the author of Experimental Researches in Electro-Harmonic Telegraphy and Telephony.

Gray, George, statesman, born at Newcastle, Del., May 4, 1840; graduated from Princeton College (1859), studied law at Harvard, and was admitted to the bar (1863); opening an office in New Castle, he continued there till 1879, when he was appointed Attorney-General of Delaware, and removed to Wilmington; he held this position until 1885. Was a delegate to the National Democratic Conventions of 1876, 1880, and 1884; and was elected U. S. Senator in 1885 to fill the vacancy made by appointing Thomas F. Bayard, Secretary of State. He took his seat March 19, 1885; was elected for the full term in January, 1887, and reflected in 1893. He is a prominent Democratic leader.

Gray, Harry Petras, genré and portrait painter; born in New York, June 23, 1819; pupil of Daniel Huntington; was elected a member of the National Academy, and subsequently president (1869-71). His works include: Wages of War (Metropolitan Museum, New York); Oupil Begging His Arrose (Pennsylvania Academy); Judgmast of Paris (Corcoran Gallery, Washington). Died in New York, Nov. 12, 1877.

Gray, Balac Puszy, politician; born in Chester co., Pa., Oct. 18, 1828; studied law; afterward spent a number of years in mercantile pursuits; moved to Union City, Ind. (1880); took part in the Civil War as colonel of the 4th Indiana Cavalry. He was successively identified with the Whig, Republican and Democratic parties, the latter after 1871; served four years in the In

(1899) 233.

Gray back, s. A name of several animals:—The California gray whale; the body-louse; the red-breasted sand-piper, or knot; the gray suipe, or dowitcher.

(Collog.) A Confederate soldier during the Civil War;

(Colog.), to otheretera souther during the CYN war; from his gray uniform.

Gray's Har'bor, in Washington, a village of Chehalis co., near Hoquism. Pop. (1889) 523.

Great Bend, in Kassus, a city, cap. of Barton co., 83 m. N. E. of Dodge City, on A. T. & S. Fé and Mo. Pac., R. Rs. Here are salt mines and stone quarries. Grain, wool and live stock are largely shipped. Seat of the Central Normal College. Pop. (1895) 2,134.

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Great Falls, in Montana, a city, cap. of Cascade co., 98 m. N. E. of Helena, on Gt. Nor. and G. F. & C. R. Rs.; has ore reduction works, claimed to be the largest in the U. S. Pop. (1897) about 12,500.

Great Lakes. (Geog.) The name frequently given to the chain of lakes which forms part of the northern boundary of the United States, including Lakes Superior, Huron, Michigan, Erie and Ontario.

Greed'y, a. [A. S. gradig, from gradan, to cry or clamor for; Dan. gradalg, greedy; O. Ger. grozan, gracojon, to solicit.] Clamorous for food, &c.; having a keen appetite for food or drink; ravenous; voracious; very hungry. very hungry.

"Be not . . . too greedy upon meats."—Eccles. xxxvii. 29.

Rapacious; vehemently desirous; eager to obtain. (Something preceding of.)

"Be not greedy of filthy lucre."-1 Tim. iii. 3.

(Something preceding of.)

"Be not greedy of fithy lacre."—1 Tim. iii. 3.

Gree'ley, in Kansaa, a W. co.; area, 780 sq. m. Surface, nearly level and almost destitute of timber; soil, very fertile. Stock farming is the chief occupation. Cap. Tribune. Pop. (1895) 1,035.

Greeley, in Nebraska, a cen. co.; area, 576 sq. m.; intersected by the North Loup river. Surface, undulating prairie; soil, fertile. Products, wheat coru, and live stock. Cap. Greeley. Pop. (1890) 4,869.

Gree'ly, Addlehus Washington, Arctic explorer, born at Newburyport, Massachusetts, March 27, 1844; is served throughout the Civil War as a volunteer, and at its close entered the regular army as lieutenant. He conducted the expedition to Smith Sound (1881) for the purpose of carrying on observations in pursuance of the international scheme arranged at Hamburg in 1879. Three winters were spent by the party in the Arctic north, and when at the point of perishing from starvation, they were rescued, on June 22, 1884. In 1887 G. was made chief of the Signal Service, with the rank of brigadier-general. Author of: Three Years of Arctic Service, and a work on meteorology.

Greem, Anna Kathenne, novelist, noted for her detective stories, was born in Brooklyn, N. Y., and educated at Ripley College, Poultney, Vt. She married Charles Rohlfs, in 1884. Her first notable work was The Leavencrth Case; others of considerable popularity are: Hand and Ring; The Mill Mystery (1886), and Marked Personal (1883).

Greem, John Richard, occlesiastic and historian, born at Oxford, England, Dec. 12, 1837; educated at Mag-

Charles Robifs, in 1884. Her first notable work was The Leavenworth Case; others of considerable popularity are: Hand and Ring; The Mill Mystery (1886), and Marked Personal (1883). Greem, John Richard, occlesiastic and historian, born at Oxford, England, Dec. 12, 1837; educated at Magdalen College School; took orders and became curate of St. Barnabas' Church; afterwards had charge of Hoxton, and finally became vicar of St. Philip's, Stepney. He retired in 1803, and engaged in the preparation of his Short History of the English People. This work, the ploneer in a new field of history, published in 1874, was most favorably received, and the degree of LL.D. was conferred upon its author by the University of Edinburgh. He was also the author of: Stray Studies, and The Making of England. Died March 7, 1883.

Greem, Serm, fish-culturist, born at Rochester, N. Y., March 19, 1817; received a common school education, and engaged in the fish and game business. His innate love of natural history developed into an intimate knowledge of fishes and their habits, and this led to his invention of original methods for preservation and propagation which subsequently nade his name a household word in this connection. He invented valuable hatching appliances and made the science of pisciculture one of practical business; its recent development is largely due to his efforts. G. was appointed one of the fish commissioners of New York in 1868, and superintendent the following year. His published works include: Trout Culture; Fish-Hatching; and Fish-Catching. Died Aug. 20, 1888.

Greem, Thomas Hill, philosopher, horn at Birkin Yorkshire, England, April 7, 1836; educated at Rugby and Balliol College, Oxford. In the so-called Hegelian movement G. was a leading representative. Published works include: Trout Culture of Published Collected Writings; Prolegomena to Ethics, &c.; was joint translator of Lotze's Metuphysics. Died Mar. 15, 1882.

Greem, William Henny, Presbyterian Clergyman, born at Groveville, Burlington co., N. J., Jan. 27, 1

Green Snake, s. A harmless snake (Cyclophis esticus), common in the southern U. S., bright green above, yellowish below.—Also the grass-snake (Liopellis

bernaus).

Green'back Par'ty. (U. S. Polit.) The word "greenback" was applied during the American Civil War to the large number of bank-notes issued by the

government, the name being derived from their color. The word in time became applied to all the U.S. paper currency of that period, and, in 1867-68, a demand. for an irredeemable paper currency (known as the "Ohio Idea") found much favor among Western Democrats. This idea grew until a greenback political party appeared (1874) which held a convention at Indianapolis and issued a platform of principles. In 1876 the party nominated Peter Cooper for the presidency and polled \$1,740 votes. In 1880 it nominated James B. Wesver, who received 307,306 votes. It adherents cast their votes in 1884 for Benjamin F. Butler, the candidate of the Labor party. No candidate of the party received any votes in the electoral college, and most of its supporters are now in the ranks of the Populist party. For an Warwick, R.I., May 6, 1803; graduated from West Point; entered the army, but resigned in 1836; became a civil engineer and was employed on various public works till 1857, when he was made engineer of Croton waterworks, New York; rendered valuable service in the Civil War, becoming brigadier-general of volunteers (1863); after being mustered out of volunteer service (1866) he resumed charge of the Croton water-works; president of the American Society of Civil Engineers (1875-77).

[SECTION II.]

president of the American Society of Civil Engineers (1875-77).

Greene, Samuel Dana, U. S. Navy, born in Cumberland, Md., Feb. 11, 1840; graduated from the Naval Academy; entered the service as midshipman and reached the rank of commander; was assistant professor of mathematics, and subsequently of anatomy, at

reached the rank of commander; was assigned professor of mathematics, and subsequently of anatomy, at the Naval Academy, and assistant to the superintendent (1878-82). Died Dec. 11, 1884.

Greeme, in Lora, a post-town of Butler co., 33 m. N.W. of Cedar Falls, on B., C. R. & N. R.R.; has a sash and door factory, flour mill and an egg and butter packing establishment. Pop. (1897) about 1,200.

Greem Geld, in Lora, a post-ov-village, cap. of Adair co., 20 m. N. of Creeton, on C., B. & Q. R.R.; has a furniture factory. Pop. (1895) 1,244.

Greem Basige, Frederick Thomas, was born in Clitheroe, Eng., July 19, 1842; removed with his parents to Lowell, Mass., in 1850; worked in the mills there; entered Harvard College in 1859, but was not able to complete his course from lack of money. He sought to enlist at the beginning of the Civil War, but was refused admittance by the surgeons; served in the commissary department at New Berne, N. C., Nov. 1, 1863, till April, 1864; after the war resumed his studies, and was admitted to the bar in 1865. He was elected to the Common Council of Cowell (1868); to the school of Cowell (1868); to the school 1883, till April, 1894; siter the war resumed in studies, and was admitted to the bar in 1885. He was elected to the Common Council of Lowell (1888); to the school committee (1871); in 1884 and 1881 was elected mayor of the city; in 1884 was delegate to the Republican National Convention; in 1888 member of Congress, and in 1893, 1894, and 1895 governor of Massachusetts. He had excellent powers of oratory, and represented Massachusetts in the dedication of the Chickamauga National Park, in Sept., 1895, and at the Atlanta Exposition on Massachusetts Day, in November following. Died in Lowell, March 5, 1896.

Green'leaf, Smon, an eminent American jurist, born at Newburyport, Massa, in 1783; became Dane professor of Law at Harvard University in 1846. His Treatise on the Law of Exidence (3 vols., 1842-63) is esteemed of standard authority. Died in 1853.

Green'leaf, in Kansas, a post-village of Washington co., 7 m. S. of Washington, on Mo. Pac. R. R.; has railroad repair shops. Coal abounds in the vicinity. Pop. (1895) 827.

railroad repair shops. Coal abounds in the vicinity. Pop. (1896) 827.

Green'ough, Richard S., sculptor, born at Jamaica Plain, Mass., April 27, 1819; studied in Italy with his brother, Horatio G. His works include: Moses and the Daughter of Pharaoh; Capid Warming an Icicle; The Shepherd Boy and the Engle, &c.

Greens'burg, in Kansas, a post-village, cap. of Kiowa co., on C., R. I. & P. R. R. Pop. (1895) 387.

Greensburg, in Kentacky, a post-village, cap. of Green co., 85 m. S. of Louisville, on L. & N. R. R. Pop. (1890) 552.

Greens'burg, in Illinois a post-town

Greem'view, in Illinois, a post-town of Menard co., 33 m. N. of Springfield, on C. & A. B. R. Pop. (1890)

1,109. Green ville, in New Hampshire, a post-town of Hills-borough co. Pop. (1890) 1,255. Green ville, in Tezas, a post-town, cap. of Hunt co., 52 m. N. E. of Dallas, on M., K. & T. and 3 other B. Ra.; has flour, feed and planing mills and furniture factories

52 m. N. E. of Dalisa, on M., K. & T. and 3 other B. Ra.; has fiour, feed and planing mills and furniture factories. Pop. (1889) 4,330.

Greem'wich, in Ohio, a post-village of Huron co., 18 m. S.E. of Norwalk, on B. & O., C., C. & St. L. and N. O. R. Rs. Pop. (1890) 881.

Greem'y, w. (Collog.) A greenhorn; a simpleton.

(College Slung.) A freehman.

Greer, James Avgustin, U. S. N., born in Cincinnati, O., Feb. 28, 183; entered the navy as midshipman; during the Civil War commanded the river gunbuat Bealon in many of her engagements, that vessel carrying the flag of rear-admiral Porter; commanded the Tigres in the search for the missing Polaris; was chairman of the Lighthouse Board for several years. Retired in 1896, with the rank of rear-admiral.

Greer, in Oklahoma, a S.W. county; area, 3,000 sq. m. It is drained by the N. and the Salt forks of the Red river. Cop. Manguim. Pop. (1897) about 6,000.

Greegg, David McMustrie, soldier, was born at Huntingdon, Pa., in 1833; graduated from West Point (1855) served in Oregon against the Indiana (1858-60); captain of the 6th Cavalry, U. S. A. (1861); appointed colonel of the 8th Pennsylvania cavalry (volunteers) in January, 1862, being made brigadier-general in the same year, after service in the Pennsular campaign. Thereafter he

commanded a division of cavalry, and rendered important services at Gettysburg and in later engagements; resigned on Feb. 3, 1865. He was sent to Frague (1874) as U. S. Consul; elected commander of the Loyal Legion in Pennsylvania (1886); Auditor-General of Pennsylvania (1891-84).

Gregg, John Isrvin, soldier; born at Bellefonte, Pa\_ in 1825; lieutenant in the U. S. Army (1847); served in the Mexican and Civil Wars, rising (1863-65) to the command of a cavalry brigade; was taken prisoner three days before the surrender at Appomattox. He was brevetted major, lieutenant-colonel, colonel and brigadier-general in the regular army, and major-general of volunteers; became colonel of the 8th U. S. Cavalry in 1866; retired in 1879. Died Jan. 6, 1892.

Gregg, Maxcx, soldier; born at Columbia, S. C., in 1814; studied law and acquired distinction in his purfession; engaged in the war with Mexico as major of the 12th Infantry; was a member of the State Convention of South Carolina in 1860, and one of the committee to prepare the ordinance of secession; entered the Confederate army, attaining the rank of brigadier-general; killed at the battle of Fredericksburg, Va., Dec. 13, 1862.

Gregg, in Texas, a N. E. co.; area, 260 sq. m.; is intersected by the Sabiue river. Surface diversified: heavily

Gregg, in Texas, a N. E. co.; area, 260 sq. m.; is intersected by the Sabine river. Surface, diversified; heavily timbered; soil, fortile. Cap. Longview. Pop. (1890)

9,902.

Greg Ory, in South Dakota, a S. co.; area, 975 sq. m.; bounded on the N. E by the Missouri river and traversed by Ponca river. Surface, nearly level. Stock raising is a leading industry. Unorganized. Pop. (1893)

1.042.

Green'da, in Mississippi, a N. central county; crea, 430 sq. m.; intersected by the Yalabusha river. Surface, undulating; soil, fertile. Nearly half the county is covered with forest. Products, cotton, corn, sweet potatoes and pork. Cap. Grenada. Pop. (1890) 14.974.

Green'dech', in New Jersey, a post-office of Camden conabut 15 m. 8. E. of Camden.

Greene'la, in Kansas, a post-village of Elk. Co., 45 m.
W. of Independence, on A., T. & S. Fé R. R. Coal and good building stone are found in the vicinity. Pop. (1895) 582.

(1895) 582.

\*\*Fresh'ann, Walter Quinton, statesman, born at Corydon, Ind., March 17 1832; educated at Bloomington University; studied and practiced law; was elected to the Indiana Legislature (1860), but resigned to accept a commission in an Indiana regiment of volunteers; served gallantly with Shorman, was severely wounded at Atlanta, and received the brevet of majorgeneral for meritorious conduct. Was appointed a U. S. judge in 1869 by President Grant; resigned in 1882 to become postmaster-general under President Arthur; on the death of Secretary Folger (July, 1884) he succeeded to the Treasury portfolio, but in October of the same year accepted an appointment as U. S. judge for the 7th circuit. This position he resigned in 1893 to enter President Cleveland's cabinet as Secretary of State. Mr. G. was a man of unquestioned integrity, of State. Mr. G. was a man of unquestioned integrity, whose somewhat erratic political affiliations were doubtless due to the faithful following of his honest conviction.

of State. Mr. G. was a man of unquestioned integrity, whose somewhat erretic political affiliations were doubties due to the faithful following of his honest convictions. Died May 28, 1885.

Gresham's Law. (Polit. Economy.) The dictum accredited to Sir Thomas Gresham (g. r.), that "Lad money drives out good money;" or, stated more explicitly, if two forms of currency, of unequal value, be concurrently in circulation, the inferior or cheaper form will drive out the other through the process of hoarding or exportation. Contemporary economists are disposed to attach undue importance to this axiom, which, after all, is merely the application of the general law of commodity to money viewed as a commodity, and a restatement of that well-known law of human, nature which forbids the use of an expensive article when a cheaper one will answer exactly the same purpose. If a coin be "clipped," but still passes for its face, it will continue to do monetary duty while the unabraded, full-weight coin is "driven" into the strong-box or metiling-pot by the force of its extra grains of metal (and thereupon the latter ceases to be money, and becomes simply and solely a commodity). This is in accordance with the laws of both nature and human nature; upon the asme principle no farmer would put 8 quarts into a peck if 7 quarts would command the same in exchange. It was obedience to this very law that caused the disappearance of all the silver money of the U. S. after 1834, when a change in our coinage ratio made the silver dollar slightly more valuable than the gold dollar; that "drove out" all our gold money, after 1861, when the gold currency became worth more, dollar far dollar, than paper; that forced millions of gold (and paper promises to pay gold) into retirement in 1893, when it was alleged and commonly believe that our greenbacks and various forms of silver currency were likely to fail below the gold level. But, acknowledging all this, the question still remains: Which is "good" money, and which "bad"? The Gressham law assu

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out of the channels of trade at any time by the operaconsist any consumers or trace at any time by the opera-tions of speculators, the alteration of coinage laws, or the changing fortunes of mining enterprises, can be properly considered "good" money. If it be true that the primary purpose and most important duty the changing fortunes of mining enterprises, can be properly considered "good" money. If it be true that the primary purpose and most important duty of money is to facilitate the exchange of commodities and services, it must logically follow that "good" money is that which circulates freely, and "bad" money that which circulates imperfectly. The worst form, then, would be that which does not circulate at all; and this is undoubtedly the condition assumed by Sir Thomas Gresham's "good" money when it is "driven out" by his "bad" money—the latter alone remaining to serve the needs of trade. See MONEY; BIMETALLISM.

Greet'ma, in Louisiana, a post-town, cap. of Jefferson parish, 3 m. W. of New Orleans, on So. Pac. and two other railroads. Has large oil mills and cooperage works. Pop. (1890) 3,332.

other railroads. Has large oil mills and cooperage works. Pop. (1890) 3,332.

Gree'ville, Henry, the pen-name of Madame Alicz Durano, born at Paris, Oct. 12, 1842. Married Emile Durand, a professor of law; resided in Paris and wrote a series of novels illustrating Russian society. Previous companies the areas search several ways in St. a series of novels illustrating Russian society. Previous to her marriage she spent several years in St. Petersburg. Her works include: Dosia, which was awarded the Montyon prize from the French Academy; Les Kommissine; La Maison Maurèsè; Un Violon Russe; Madome de Dreux, &c. Grevillea (grèvilleah), n. (Bot.) A genus of Professors, distinguished by having apetalous flowers; a calyx which is either four-cleft or has four lineal sepais broadish at the

broadish at the end; four ovate sessile anthers, one of which is attached to the concave apex of each sepal; and an elongated, curved atyle, with the atigma either lat-aral or oblique. eral or oblique, plane, or concave. The seed-vessel, called a follicle, is woody or leathery containing one or two occusionally winged oval seeds. This is the most



extensive and also
the handsomest
genus of the order. Fig. 2913.—GREVILLEA ACANTHIPOLIA.
It contains every
variety of form, from lofty trees a hundred feet in
height, with a girth of eight feet, as in G. robusta, the
silk oak of the colonists, to humble procumbent shrubs,

height, with a girth of eight feet, as in G. robusta, the silk oak of the colonists, to humble procumbent strubs, as in G. acanthifolics.

Grevy (grd'v'), François Paul Jules, statesman and President of the French Republic, born at Mont-Sous-Vaudrez, department of the Jura, Aug. 15, 1813. When a student at Paris he took part in the attack against Charles X. in July, 1830. He studied law in Paris. On the breaking out of the revolution of 1848, he was appointed by the Provisional Government, Commissioner for the Jura, and was subsequently returned by that department to the Constituent Assembly, and became its Vice-President. He voted against the expedition to Rome, and advocated granting but limited power to the Executive, foreseeing the possible abuse thereof. At the time of the coup d'etal (1851) he was arrested, and confined for a short time in Mazza prison. Upon his release he confined himself to his profession of law, acquiring celebrity for his defense of political offenders. In 1868, elected to the Assembly for Jura to fill a casual vacancy, and reëlected in 1869. He opposed the plusieite of 1870. In 1871 he was elected President of the Assembly. He opposed the Septemate, upon the ground that the Assembly had not power to create a power outlasting its own. He refused the nomination, by the Assembly, of life senator in 1875. In 1876 was reëlected by the Jura, and again appointed President of the Chamber; on Jan. 30, 1879, elected by the Assembly President of the Republic for seven years, by a vote of 563 out of a total of 713 cast. In 1885 he was reëlected president for 7 years, but owing to a conflict between the Executive and the Assembly, and his inability to

Fresident of the Republic for seven years, by a vote of 563 out of a total of 713 cast. In 1885 he was reslected president for 7 years, but owing to a conflict between the Executive and the Assembly, and his inability to form a ministry, he resigned his office as President of the Republic, Dec. 2, 1887. G. was a man of high culture, with a judicial turn of mind, strict probity, and dignity of manner. Died Sept. 9, 1891.

Grey, Siz Grozg, K.C. B., soldier and statesman, born at Lisbon, Ireland, 1812; educated at the Royal Military College, Sandhurst. In 1837 he started on an exploring tour of the interior of Australia, and later explored the Swan river district. He was successively the governor of South Australia and New Zealand, governor and commander-in-chief of the Cape of Good Hope; was appointed governor of New Zealand a second time; in 1875 became superintendent of Auckland, and in 1877 premier of New Zealand. He had high powers as a statesman and was very popular with the people. Author of: Journals of Discovery in Australia; Polymerian Mythology, &c.

of: Journals of Discovery in American, occup, &c.
Grad'ley, in California, a post-village of Butte co., 18
m. N.W. of Marysville, on So. Pac. R. R. Has a flour
mill, planing mill and foundry. Pop. (1890) 686.
Grier'som, Benjamin Henny, soldier, born in Pittaburg, Pa., July 8, 1826. At the outbreak of the Civil
War he was engaged in business at Jacksonville, Ill.;
entered the Federal service as aide on the staff of Gen.
B. M. Prentiss, but in August, 1861, became major of

the Sixth Illinois Cavalry and colonel of same regiment the following year, rendering brilliant service until June, 1863, when he was made brigadier-general; two years later (1885) he was promoted to the rank of major-general of volunteers; in 1866 received a commission as colonel in the regular army and was assigned to the command of the Tenth Cavalry. His subsequent service was chiefly in the Indian Territory (1868-73) as commander of the district, in Texas, New Mexico and in various Indian campaigns. His brevets in the U. S. Army are those of brigadier- and major-general. Griffin, Charles, soldier, was born in Licking county, Ohio, in 1826; graduated from West Point (1847) and served in the artillery during the Mexican War; afterward saw service on the frontier till 1859, when he became instructor of artillery at the Military Academy. He commanded the West Point battery at the first battle of Bull Run (July 21, 1861), and was brevetted major for gallant conduct; was made brigadier-general of volunteers in June, 1862, and commanded a brigade on the Peninsula, winning distinction at Yorktown and Malvarn Hill: carged in the second battle of Bull Malvarn Hills: carged in the second battle of Bull

[SECTION II.]

on the Peninsula, winning distinction at Yorktown and Malvern Hill; engaged in the second battle of Bull Run, and those of Antietam and Gettysburg as division commander; was promoted to the rank of major-general and succeeded Warren in the command of the 5th corps after the battle of Five Forks; received the Confederate

after the battle of Five Forks; received the Confederate arms and colors at Appomattox. After the war G. was brevetted major-general in the regular army and assigned to the command of the 35th infantry. He died at Galveston, Tex., while in command of that department, Sept. 15, 1867.

Griff files, William Ellior, educator and author, born at Philadelphia, Pa., Sept. 17, 1843; graduate of Rutgers College; went to Japan (1870) and became professor of natural science in the Imperial University of Tokio; after his return graduated from the Union Theological Seminary (1871); was pastor of the First Reformed Church, Schenectady, N.Y. (1877-1886) and of the Shawmut Congregational Church, Boston (1886). While in Japan he prepared some educational works and was engaged in organizing schools on the American plan. Author of: The Mikado's Empire; Japanese Fuiry World; Orea, the Hermit Nation, &c.

Author of: The Mikado's Dmpire; Japanese Fairy World; Corea, the Hermit Nation, &c. Grigges, in North Dakota, an E. cen. co.; area, 720 eq. m.; drained by Sheyenne river and Hill creek. Surface, undulating; soil, very fertile. Products, wheat, cats, barley, potatoes and vegetables. Live stock is raised. Cap. Cooperstown. Pop. (1890) 2,817. Grimes, James Wilson, statesman, born at Deering, Hillsboro co., N. H., Oct. 20, 1816; educated at Dartmouth College; one of the founders of the Republican party. He canvased nearly the whole of his State (Iowa) on several occasions; was elected governor in 1864; was U. S. Senator from 1859 to 1869, resigning in the latter year on account of failing health. During 1804; was U. S. Senator from 1809 to 1809, resigning in the latter year on account of failing health. During his service in the Senate he was a recognized authority on naval affairs, and was the first to urge the construction of ironclasts. He opposed the impeachment of Andrew Johnson on the ground that the indictment as prepared charged no impeachable offence. Died Feb. 7 1878

innell', HENRY, born in New Bedford, Mass., in 1800; educated there in the common schools; went to New York and entered the employ of a commission house, becoming senior partner of the firm of Grinnell, Minturn & Co. in 1825; retired from business with a fortune in 1852, and died June 30, 1874. Mr. G. was fortune in 1852, and died June 30, 1874. Mr. G. was deeply interested in Arctic explorations, and fitted out vessels at his own expense to aid in the search for Sir John Franklin (1850), besides contributing freely to other expeditions. He was the first president of the American Geographical Society. Grinnell Land, in the Arctic Ocean, W. of Greenland and Kane Basin, was recent for the search for the search

named for him.

named for him.

Grippe, La. See Inviluenta.

Griqualand, West and East. (Geog.) Two
British districts of South Africa, one being a part of
Cape Colony, the other a dependency of this colony.

It is named from the Griquas, a mixed race sprung
from Dutch settlers and native women.—West G. lies
N. E. of Cape Colony, between the Orange river and
the Bechuana territory, and is bounded E. by the Orange
Free State and W. by the Kalahari country. This
region is to some extent suitable for agriculture and
sheep-farming, but its great value comes from the dismond mines, which were first discovered in 1867, and
which have brought thither a steady stream of population. The diamond-bearing territory had been secured mond mines, which were first discovered in 1801, and which have brought thither a steady stream of population. The diamond-bearing territory had been secured to Waterboer, a native chief; but, disputes arising in consequence of the influx of miners, West G. was annexed to Great Britain in 1871, and incorporated with Cape Colony in 1890. Kimberley, the chief center of the diamond industry, is the seat of government, Area, 17,491 square miles. Population (1891) 83,375, of which 29,670 were whites.—East G. lies between the borders of Kaffraria and Natal, forming a portion of what was formerly known as No-Man's Land. It was allotted to Adam Kok, a Griqua chief, and to the Basutos, but was annexed to Cape Colony in 1875 and is under the rule of a colonial governor or chief-magistrate. Area, 7,594 square miles. Population, 144,468 natives and 4,150 whites.

Gris wold, Ruyus Wilmor, critic and author, born in Rutland co., Vermont, Feb. 15, 1815, became the editor of, among other publications, The International Magazine. His more notable works embrace: Poets and Poetry of America, and The Prose Writers of America. He was one of Poe's executors, and furnished to the 1856 editions of his works a biographical sketch which proveds and much heatile or the contract.

tions of his works a biographical sketch which provoked much hostile criticism. Died in New York, August 27, 1857.

Groes'beck, in Texas, a post-village, cap. of Lime-stone co., 95 m. S. of Dallas, on H. & T. C. R. R.; has brick works and soda-water factory. Pop. (1895) abt. 850. Grossgrafin (grif grin), n. A stout and durable corded silk stuff.

GFOSS. SAMUEL DAVID, surgeon and author, was born near Easton, Pa., July 8, 1805; graduated at Jefferson Medical College, Philadelphia (1828); became professor of Pathological Anatomy at Cincinnati Medical College (1836-39); professor of Surgery at the University of Louisville (1839-60) and at the University of New York

(1835-39); professor of Surgary at the University of Louisville (1839-50) and at the University of New York (1850-51). He attained a world-wide reputation as a surgeon of almost unexampled skill and as a writer on surgical subjects; was a member of numerous medical and surgical societies of the U. S. and Europe; presided over the International Medical Congress at Philadelphia (1876); received the honorary degrees of D.C.L. from Oxford (1872) and LL.D. from Edinburgh (1884). His greatest work was System of Surgery, 2 vols., which has passed through many editions. Other works were: Manual of Milliary Surgery; Rements of Pathological Anatomy, &c. Died May 6, 1884.

Grove, Sir William Robert, scientist, born in collamorgan, Wales, 1811, graduated at Oxford in 1833, and two years later was admitted to the bar. In 1840 he became professor of Experimental Philosophy at the Institute of London; in 1865 president of the Association for the Advancement of Science; and in 1871 a judge of the Court of Common Pleas. In 1846 C. published On the Correlation of Physical Forces, in which he advanced the doctrine of the mutual convertibility of the various natural forces, heat, electricity, &c., and of their being all modes of motion. This work has been republished in the United States, France, Belgium, and Germany. Sir William was the discoverer of the principle of the voltaic battery, the strise in the electrical discharge, the electricity of flame, the voltaic etching of daguerreotypes, the electro-chemical polarity of gases, new combinations for aplanatic object-glasses of telescopes, molecular impressions by light and electricity, &c.

of telescopes, molecular impressions by fight and contricity, &c.

Grove'ton, in Texas, a post-town, cap. of Trinity co., 100 m. N. E. of Houston, on M., K. & T. R. R. Pop., (1880) 1,076.

Grove, Galubra Aaron, statesman, born at Ashford, Conn., Aug. 31, 1823; graduated from Amherst College; studied law; was admitted to the bar in 1847; was several times elected to Congress from Pennsylvania (1851-57, 1859-63); in the Thirty-seventh Congress was Speaker of the House. After several years of retirement from active political life, G. was elected Congressman-at-Large from Pennsylvania, in 1894, by a sweeping majority, and reelected in 1896. He was originally a Democrat, but severed his connection with that party in 1854, on the repeal of the Missouri Compromise bill, 1854, on the repeal of the Missouri Compromise bill becaming one of the founders of the Republican party.

becaming one of the founders of the Republican party.

Grozing-irons, n. A tool used by plumbers in amoothing solder-joints of lead plps.—A glass-cutter, used before the adoption of the diamond.

Gru'-gru, n. (Entom.) The larva of a large insect, Calondra palmarum, eaten in South America.

(Bot.) The macaw-palm, Acrocomia schlerocarpa, growing in the West Indies, from the nuts of which is obtained an oil used to give a violet odor to soap.—A palm-tree, Astrocaryum rulgare, which yields a valuable wood. wood.

Grun'dy, s. Pig iron in grains; used in the manufac-

Grum'dy, Mrs. The proverbial question "What will Mrs. Grundy say?" comes from the comedy Speed the Plose, being the expression of solicitude on the part of Dame Ashfeld as to the opinion of her neighbor, Mrs. Grundy, who represents society in general or a critical public.

Grang, who represens extery in general of a compublic.

Gruyére (grü-yār') Cheese. A celebrated skimmilk cheese made at Gruyère, Switzerland. It is said to owe its flavor to meliotus officinalis.

Guaco (gwū'-cō), n. (Bot.) Aristolochia Gnaco, a plant celebrated for its efficiency in curing snake-bite.—Other plants having similar propertics.

Guad'aloupe, in New Mexico, an E. co.; area, 8,320 sq. m.; intersected by Pecos river. Surface, is diversified; there are extensive plains, while along Pecos river it is mountainous. Products, corn, beans, wheat, oats, alfalfa and vegetables. Cap. Puerto de Luna.

Guard'-rail, n. A beam or rail, used at railroad switches, curves, and dangerous places, on the inside of a main rail, to keep the wheel on the track.—A hand-rail on the bridge of a stemboat or elsewhere; a safety-rail.

nand-rail on the bridge of a steamboat or elsewhere; a safety-rail.

Guerran's. Francisco Dominico, Italian patriot, born at Leghorn on Aug. 12, 1804; studied law; accepted an office in the ministry of Tuscany (1849); subsequently, on the flight of the Grand-Duke, was made a member of the provisional government, and later, dictator. When the grand-ducal rule was restored he was imprisoned for three years and then condemned to the galleys for life, but was afterward allowed to select Corsica as his place of banishment. His liberty was subsequently restored and he became a member of the 'parliament of Turin (1862 and 1865). He was a brilliant writer of fiction; his works include: La Battaglia di Benerento; L'Assido di Firenze; Beatrics Cenci; L'Asino, &c. Died Sept. 23, 1873.

Guesta. John, U. S. N., born in Missouri, in 1821, entered the navy as midshipman and attained the rank of commodore; served in the Mexican and Civil Wars. In the latter he took part in various engagements; commanded the Orasco at the bombardinent of Vicksburg (1862), and the Lacco in the Fort Fisher engagesafety-rail.

burg (1862), and the losso in the Fort Fisher engagements. Died Jan 12, 1879.

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Guide'-beard, s. A board with directions for travellers, placed at cross-roads, park drives, forest paths, &c.

Guide'-book, s. A book containing information regarding places, routes, &c., for the convenience of travellers and tourists.

lers and tourists.

Guillemain, Amadér Victor, scientist and author, born in Saône-et-Loire, France, July 5, 1826; professor of mathematics at Paris. He was a writer on science; his works have been very popular, and have passed through many editions. They include: The Hearens; The Sun; The World of Comets, &c. A number of his books have been translated into English.

Guilmant (yeel-ming), Félix Alexander, organist and composer, born at Boulogne, France, Mar. 12, 1837; organist of St. Joseph's Church in Boulogne, subsequently of La Trinité in Paris; visited the U. S. (1883), playing in several cities very successfully; is considered among the foremost of composers for the organ. His vocal compositions include a fine mass and a lyric cantata entitled Balthesar.

Guiln'mess, Sir Branamn Leg, Bart., born Nov. 1,

cantata entitled Balthwar.

Guin'mess, Sir Benjamin Ler, Bart., born Nov. 1,
1798; member of a Dubliu brewing firm, one of the
largest in the world, 3,000 persons being employed and
42 acres covered by its premises. He was a member of
Parliament from 1865 to 1868; restored at his own cost
(£140,000) the cathedral of St. Patrick in Dublin. Died
May 19, 1868.—His third son, Sir Edward Cect. G.,
born Nov. 10, 1847, placed in trust the sum of £250,000
to be spent for the providing of saultary dwellings for to be spent for the providing of saultary dwellings for workmen at a low rent, £200,000 to be given to London and the remainder to Dublin.

workmen at a low providing of sanitary dwellings for workmen at a low rent, £20,0,00 to be given to London and the remainder to Dublin.

Guirand. Enxext, composer, born at New Orleans, La., June 23, 18:0; studied with his father, producing his first opera, Le Roi David, before he was fitteen; entered the Conservatory in Paris and gained the Prix de Rome; was decorated with the cross of the Legion of Honor (1878); professor of advanced composition in the Conservatory (1880). His many works include: Sylvi2; Gretaa Green; Piccolino; Le Kobold, &c. Died May 6, 1892.

Gum'drop, n. A molded confection of sweetened and flavored gum-arabic, but often adulterated or imitated with glucose, gelatine, &c.

Gume-elas'tic, n. Caoutchouc, or India-rubber.

Gump'tion, n. (Colloq.) Shrewdness; cleverness; native intelligence; common sense.

(Paisting.) The art of preparing colors; also, a nostrum much in request by painters in search of the supposed "lost medium" of the old masters, and to which they ascribe their excellence. The formula for preparing this medium gives a mixture of drying linseed oil and sugar of lead.

Gun, Basse'ball. (Games.) A device invented by Prof. Hintou and tried at the Princeton, N. J., baseball grounds on June 8-10, 1897. It is intended to do the work of the pitcher of a baseball team, and consists essentially in a cannon-shaped weapon provided with curved fingers projecting from the muzzle, the ball being expelled by the explociou of gunpowder, modified by the use of spiral springs and the employment of a alender tube through which the gases pass from the point of explosion to a space in the barrel behind the ball. The gas being thus introduced near the middle of the barrel and between the ball and the piston-like

constul from a mechanical point of view, the B. G. is probably of no value in actual practice. Its delivery is alow, because of the time required for loading, adjustment, &c.; and, in the nature of things, a bataman could easily judge, from the direction of the piece and the location of the fingers, the kind of a "curve" about to be delivered, and strike accordingly. It is highly interesting as a mechanical experiment, however, and may eventually develop into something more practical. A modification of the form shown in the accompanying illustration has been made, which has a short stock and, instead of resting on the ground, is fired from the shoulder, like a rifle.

\*\*ima, \*\*Machine\*\* and \*\*Rapid\*\*-fire\*\*. (Orda.). A machine gun

shoulder, like a rifle.

Gun, Machine and Rapidfire. (Orda.). A machine gun
is one that is loaded and fired by
machinery; generally has a number of barreis, and uses ammunition not larger than the largest of
small arms. A rapid-fire gun is
one that is loaded by hand, though
in some cases discharged by machinery; it has only one barrel,
and its projectile ranges from about
1½ in-hes (1-pounder) to 6½
in-ches (100-pounder), the limit
being apparently the weight of
projectile which one man can conveniently handle. These guns discharge armor-piercing shells, and
are of special use in the may for
repelling torpedo boats, whose armor is easily penetrated by those
of medium caliber. Every modern
warship carries a battery of rapidfire guns, whose celerity and accuracy of fire would render it very
hazardous for a torpedo boat to
approach within striking distance
except under cover of darkness,
fog, or battle-smoke. On shipboard, machine guns are usually
placed in the fighting tops of the
military masts, where they can
sweep the decks of an adversary.
On land they are particularly useful to defend ditches or deflee and

minitary masts, where they can sweep the decks of an adversary. On land they are particularly useful to defoud ditches or defiles and to repel the charges of infantry, being capable of mowing down advancing troops by thousands. The best, if not the only, practical test of improved rapid-fire guns was afforded during the Chino-Japanese war, at the battle of the Yalu river, which, it is claimed, was won by the Japanese guns of this character rather than by the heavier ordnance. While it is true that one well-directed shot from a 13-inch cannou may annihilate a heavily-armored antagonist, more dependence is to be placed upon the 3- to 6-inch armorpiercing shells discharged at the rate of six to eight a minute, with perfect accuracy of aim and with force enough to penetrate the lighter sponsons and gunshields and burst with deadly effect among the gunners. As a result of this experience and subsequent experiments, it is probable that most of our ordnance up to 6-inch caliber will hereafter be constructed with rapid-



Fig. 2915.—GATLING GUR—NEW NAVY MODEL

in the modern type important improvements are seen in the feeding apparatus. The gun shown in Fig. 2915 is the new model adopted by the U.S. Navy Fig. 2915 is the new model adopted by the U.S. Navy in 1885. In this the feed mechanism has been replaced by one of much simpler construction and less bulk; the cartridges are attached to stripe of tin, fed by positive motion into the grooves, when they are discharged by the method already described. Another improvement, which may be applied when desired, is an electrical firing apparatus applied to the breech of the gun and controlled by a push-button, whereby the rate of fire may be regulated at the will of the operator. By the use of this it is possible to discharge the gun at the rate of 3,000 shots a minute. Each feed strip holds 20 cartridges, and 10,000 rounds, ready for instant use, may be carried in the limber. The improved army model is substantially the same in construction, the main improvement being in the positive feed, which acts quite independent of gravity, and therefore makes the weapon useful at any desired degree of elevation or depression.—The Hotckin the modern type important improvements are seen in

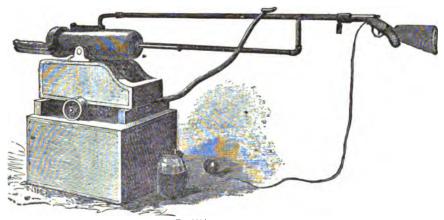


Fig. 2914.—BASEBALL GUN.

head of the spiral spring (which has a motion backward toward the breech), its force is exerted equally upon the ball and the spring, thus avoiding the danger of giving the ball too great velocity when expelled. As an additional safeguard, there is a vent in the barrel a few inches in the rear of the spring-head; if a superfluous charge reach the barrel, the spring will be forced back far enough to allow the gas to escape through the vent, thus relieving the pressure on the ball. The curves are produced by the projecting fingers, which are seven inches iong, slightly curved inward, and faced with rubber. These are adjustable and may be placed at any point around the muzzle, thus producing whatever "curve" may be desired. (See Curve Pitching.) Although the trial at Princeton was highly suc-

fire mechanism.

fire mechanism.

Machine Guns.—Of the earlier patterns, the best-known was the French mitrailleuse. This consisted of 25 fixed barrels in rows of 5, with a breech-block containing 25 chambers coinciding with the barrels, each chamber carrying a cartridge and being provided with its own firing-pin. Several such breech-blocks were prepared and loaded beforehand for each gun; when placed in position the cartridges were rapidly discharged, in rotation, by a mechanism for releasing the pins which was operated by a crank.—Next of successful devices was the Galling gun, which, in its perfected form, is now used all over the globe. This consists of a cluster of 45-caliber rifle barrels arranged around a central shaft and rotated by a crank. Back of the barrels is a

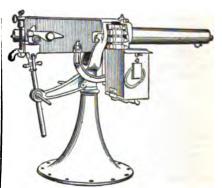
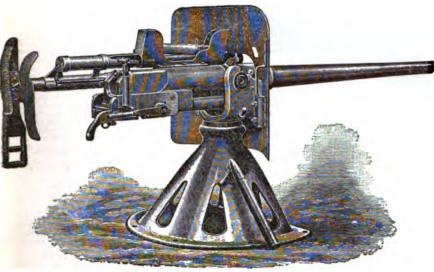


Fig. 2916.-MAXIM BAPID-FIRE GUN. Model of 1897; 1½ inches caliber; naval mounting; fires 300 1-pound shells a minute; velocity, 1,800 feet a second; penetration, 2½ inches of iron.

kiss revolving common has a caliber of 1½ inches, and but one mechanism for loading, firing and extracting shells, operating on each barrel in turn. This gun is effective, but relatively heavy and cumbersome, and it is being largely replaced by rapid-fire guns of corresponding caliber.—The Gardner gass has only two barrels, side by side. It is operated by a crank which actuates two cams at the rear of the barrels: these alternately push into position and fire the cartridges that are fed from

the top. Its action is not exceedingly rapid, owing to the small number of barrels.—The Norden/eldt gus has from two to seven parallel barrels, arranged side by side, as in the Gardner; each barrel is provided with a bolt, moved by a side crank, and is fed from a magnine overhead. As the bolts move backward cartridges drop into place, when the bolts start forward and drive them into the barrels, the hammers are released, and the shots discharged in very rapid succession, but not wholly in unison. This has been a favorite gun in England.—

and grooves, aided by the recoil of the piece, the breech is reopened, the empty shell cast out, and position taken for a fresh cartridge, which is automatically pushed into piace, the breech closed, and the piece instantly fired if the operator's finger be kept pressed on the trigger.—
Tests. On government trial the Driggs-Schroeder gun has fired 34 shots in one minute, 83 shots in three minutes; the time taken to dismount the piece and replace in in firing position was two minutes and 43 seconds. Corresponding data for the Hotchkiss gun, at the same



FUJ. 2917.-MAXIM AUTOMATIC RAPID-FIRE GUN, WITH SHIELD-NAVAL PATTERN OF 1895.

The Maxim Automatic Machine Gan, as its name indicates, is designed to be almost wholly automatic in its action; and, in fact, after one shot is fired, the operator has but to keep one finger pressed upon the trigger, and the discharges will continue until the magazine is empty. Like the Gatling, this gun is the invention of an American. It differs essentially from the other machine guns described, having a single barrel and a most ingenious though rather complicated mechanism that cannot be intelligibly described in the space now at our disposal.

that caunot be intelligibly described in the space now at our disposal.

RAPID-FIRE GUNS.—The distinguishing feature of rapid-fire guns is the breech mechanism, which is so designed that the operation of loading and firing is expedited in the highest possible degree. The efforts of inventors in this line are almost wholly directed toward attaining simplicity of construction and case and rapidity of handling, combined with the requisite qualities of strength and gas-tight breech-block that moves vertically in a slotted breech. By means of hand levers at the sides, the breech-block is dropped down until the end of the barrel is uncovered, the same motion discharging the empty sholl and oxcking the hammer; after inserting a new cartridge (by hand) the movement of the levers is reversed, by which means the cartridge is driven home and the barrel again closed. The trigger is then pulled by hand.—The Driggs-Schroeder gun, invented and manufactured in the U.S., has a breech-block that both slides and rotates; on its upper surface (which is convex, corresponding to the interior form of the breech are projecting ribs which fit into corresponding grooves in the inner and upper face of the breech, thus, by interlocking, resisting the recoil. After a discharge the block is slid downward far enough to disengage the ribs and grooves, and then revolved to the rear, throwing open the chamber of the gun. All this is accomplished by the action of a rotating handle and cam, and by the same movement the piece is oxked and the empty shell thrown out. After inserting a fresh cartridge the lever motion is reversed, the rotary swing of the breech-block driving the cartridge into place, and the upward slide firmly closing the breech-block divided into two parts, of which the rear portion functions as a wedge, and the forward part as the block. Like the Driggs-Schroeder, the whole block has a combined sliding and rotary motion, but at its beginning the rear portion only slides downward, while the front part remains in position. When the

competitive trial were as follows: 28, 83, and one minute, 372 seconds; for the Skoda (3-pounder): 24, 55, and 333 seconds; for a model designated the Maxim-Nordenfeldt: 20, 65, and three minutes, 332 seconds—the longer time consumed in dismattling and refitting being in part due to an accident. The Spossel gun, made in Connecticut, fired 24 rounds in one minute, and 73 in three minutes. These results were reached under the most favorable circumstances and by the employment of skilled gunners; in actual practice nothing like so high a rate of fire could be long continued without overheat-

speed coupled with light draught. These characteristics enable them to ascend rivers and cruise in shallow waters which heavier vessels cannot enter, and provide a means of escape when pursued by more powerful adversaries of deeper draught. Nine of these vessels have been constructed since 1893, foreshadowing, as many assume, a more active foreign policy, inasmuch foreign stations as the Asiatic, where it is occasionally necessary to ascend rivers that are entirely unnavigable for even our light cruisers. The smallest of our grubost fleet is the Petrel, 892 tons, the keel of which was laid in 1887. This loat is 176 feet long, with 31 feet beam; has a draught of 11-7 feet, a recorded speed of 11-7 knots, 1,095 horse-power, and an armament of 4 6-inch breechloading rifies, 1 1-pounder rapid-fire gun, 2 Hotchkiss revolving cannon, and 2 gatlings; contract price, \$247,099. The Benningdon, Concord, and Yorktom, each of 1,710 tons, are 230-feet long by 36 feet beam, with a mean draught of 14 feet; a recorded speed of 17-5, 168 and 16-14 knots, and a horse-power of 3,436, 3,405 and 3,392 respectively. Their armament consists of 6 6-inch breech-loading rifies, 2 bounder and 2 3-pounder rapid-fire rifies, 2 Hotchkiss revolving cannon and 2 gatlings each. The Benningdon and Concord (keels laid in 1888) cost \$490,000 each for hull and machinery; the Yorktoms (keel laid in 1887) cost \$465,000. The Machins and Gatine were built in 1891-94, at a cost of \$318,000 and \$318,000 respectively. These locats are 204 feet long, with 32-1 feet beam and 12 feet mean draught; speed about 16 knots. They carry 8 4-inch, 4-6-pounder and 2 1-pounder rapid-fire rifies. An act of Congress on March 3, 1893, authorized the construction of three gunboats, which were subsequently named Helesa, Wilmington and Nakcille. These were built at Newport News, Va., the keels being laid in 1894. The two first named are sister ships, specially designed for service in Asistic rivers. Their principal dimensions and specifications are: length, 250 feet, 9 inc speed coupled with light draught. These characteristics

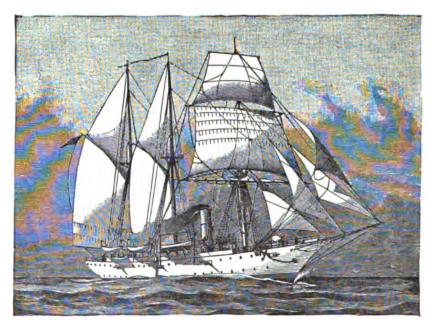


Fig. 2918.—United States Gunboat Annapolis—composite type of 1897.

ing the guns, even if it were physically possible to serve them.

Inem.

Jum'boat, s. (Nary.) Not the least useful addition
to the navy of the United States is a fleet of 15 gunboats, built since 1887, and especially adapted for service
on the inland waters of both home and foreign stations.
These vessels have comparatively little defensive power,
being practically destitute of armor, if we except a light
protective deck; but they are provided with batteries of
small calibre but of high power, and have considerable

length, 220 feet; beam, 36 feet; draught, 11 feet; displacement, 1.371 tons; horse-power, 1.750. The contract required a speed of 14 knots, but on trial 16.76 knots, or about 19 statute miles, were developed, earning a premium of \$50,000 for the builders. The Nashrille is propelled by twin screws. Her armament consists of 8 4-inch rapid-fire guns, arranged in sponsons on the gundeck, and in the open on the main deck; 46-pounder Hotchkies rapid-fire guns on the gundeck, forward and aft, and 2 1-pounder Hotchkies and 2 gailings disjosed

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on the main deck. There is one torpedo tube in the low. The contract price for these three vessels was 220,000 each.—Composite Granbouts. Of a somewhat different by a set the star wessels authorized by act of type, a mixed structure of wood and metal. The rapid accumulation of barnecles and marine vegetation on the bottoms of iron and steel warships is a source of continual expense and lose of time incident to docking, to say nothing of decreased speed and increased consumption of coal due to these bindrances. In the composite type this difficulty is largely overcome by the employment of wooden planking rivered to the scheding. An inner sheathing of steel may be added for fertured for strength, the wholes of featured by composition bolts that galvanic action is practically avoided. Vessels of this class will be of particular utility in patrolling stations like the sealing-grounds of Alsaka or the middle waters of the Yukon irver, remote from docks, of which they will be made measurably independent by their copper bottoms. There of these me boats, the Ansopolis, Neoport, and Vickberry, have fully a stational time of the Stationary of the Composite type are lost for the Yukon irver, remote from docks, of which they will be made measurably independent by their copper bottoms. There of these me boats, the Ansopolis, Neoport, and Vickberry, have fully an interest of the Station of th

4,300.
A city, cap. of Gunnison co., 63 m. N.E. of Montrose, on D. & R. G. and Union Pac. R.Rs.; has smelting works. Iron and coal are very abundant in the vicinity. Gold, silver and manganese are also mined. Ppp. (1890) 1,105.

1,106. Gun'powder Creek, in North Carolina, enters the Catawba river, in Caldwell co. Gun'don, in Arkonsaa, a post-town of Clark co., 16 m. S.W. of Arkadelphia, on St. L., I. Mt. & S. R. R.; ships lumber and cotton. Pop. (1890) 802. Gur'ney, Sir Goldworthy, inventor, born in Cornwall, England, in 1793; studied medicine, but gave his attention to chemistry, delivering a course of lectures on the subject at the Surrey Institute; was the inventor of the Bude, oil gas, lime, and magnesium lights:

attention to chemistry, delivering a course of rectures on the subject at the Surrey Institute; was the inventor of the Bude, oil gas, lime, and magnesium lights; claimed the invention of the oxyhydrogen blowpipe, and to have been the first to observe the deflection of the magnetic needle by voltaic cross-currents; also invented the high-pressure steam jet and tubular boiler; was knighted in 1863. Died Feb. 25, 1875.

Guth'rie, Thomas, born July 12, 1803, at Brechin, Forfarshire, Scotland; student of the University of Edinburgh; was licensed as a preacher (1825); appointed one of the ministers of Old Greyfriars parish in Edinburgh (1837). He was eminent as a pulpit and platform orator, also as a social reformer and philanthropist, working among the most degraded of the population of Edinburgh. He joined the Free Church, and for many years held the ministry of Free St. John's, Edinburgh; was Moderator of the General Assembly of the Free Church of Scotland (1862), and one of the vice-presidents of the Evangelical Alliance; editor of the Sanday Magazine, and author of The Way to Life; A Plea for Ragged Schools; Studies of Character; Parables, &c. Died Feb. 24, 1873.

thus engaged he composed an elaborate poem in which was expressed his arrient desire to become a missionary and labor among the heathen. This poem was presented to the Prussian King in 1821, who at once directed that G. be placed in the missionary institution at Berlin. After two years of study there he was transferred to the Dutch Missionary Society at Rotterdam, by whom he was sent to Sumatra in August, 1826. Being detained by some means on the island of Java, G. Setablished a residence at Batavia, and in two years mastered the Chinese language, and familiarized himself with the habits and disposition of the Chinese by associating with people of that nationality at Batavia. He now resolved to abandon the Dutch mission and labor in China; and in 1828 he joined the English missionary, Tomlin, in his work at Bangkok, Siam. Here he acquired the Slamese language, and perfected himishor in China; and in 1823 he joined the English missionary, Tomlin, in his work at Bangkok, Siam. Here he acquired the Slamese language, and perfected himself in the Chinese tongue. Proceeding to China, he established himself at Macao, and became closely associated with Bobert Morrison. Here, in conjunction with Medhurst and others, G. began a new translation of the Bible into Chinese. He also founded a society for the diffusion of general knowledge throughout China, in the interest of which he published a monthly magazine in the language of the country, all the time preaching the gospel at Macao and other accessible points. He was later appointed chief interpreter to the British supervisional government in China, a position he was well qualified to fill. In this capacity he attempted to penetrate the province of Fo-kien (May, 1835), but the hostility of the natives made the effort a failure. About the same time the Chinese authorities prohibited the printing of books or other publications failure. About the same time the Chinese authorities prohibited the printing of books or other publications relating to Christianity in the Chinese language, and also the distribution by aliens of any kind of literature in that tongue. The methods of peace having failed in his conflict against heathenism, G. Joined the British in their war with the Chinese and was able to render invaluable service because of his thorough knowledge of the language. He was also instrumental in bringing about the peace of 1842. In 1844 he established a society whose purpose was to diffuse the gospel through China by means of native missionaries, which effort

was so successful that by 1848 no less than 50 Christis

was so successful that by 1848 no less than 50 Christianised Chinese had been sent as laborers through the interior of the country. In the interest of this society G. visited England, Germany, and other countries in 1849-50, returning to Hong Kong early in 1851, where he died a few mouths later in the same year.

Guyet (g²/yô), Arnold Henry, scientist, born bear Neufchâtel, Switzerland, 1807. He received his education at the college of his native city, the gymnasis of Stuttgart and Carlsruhe, and Berlin University. At Carlsruhe he formed an intimate friendship with Agassis, A. Braun, and Schimper, and with them began the study of physical science, though studying theology for four years at Neufchâtel and Berlin. In 1835 he was graduated Ph.D. at Berlin University, his thesis being dedicated, by permission, to Humboldt and Ritter. He then proceeded to Paris, where he spent five years in teaching and studying, making scientific summer tours in France, Belgium, Holland, and Italy, for the purpose of investigating the glaciers and errait boulders. He discovered and communicated to the Geological Society of France, in 1838, the principal laws which govern the formation and motions of the glaciers, which the subsequent observations of others have confirmed; he also showed how the distribution of the Alpine builders in the regions around proved the extension and limits of the great diluvian reacien. glaciers, which the subsequent observations of others have confirmed; he also showed how the distribution of the Alpine boulders in the regions around proved the extension and limits of the great diluvian glaciers in Switzerland and Lombardy. From 1839 to 1848 he was professor of History and Physical Geography in the College of Neufchâtel. A political revolution having broken up that institution, he resolved in 1848 to follow his friend and colleague, Agassiz, who had emgrated to the U.S. In 1848-9 he delivered a course of lectures in French on The Relations between Physical Geography and History, at Boston, which, translated by Prof. Felton, were published under the title of The Earth and Mon (1849). He afterwards lectured at the Lowell Institute, the Smithsonian, and other Institutions; organized for the Smithsonian Institution system of meteorological observations, and prepared for it the extensive series of practical tables, introducing and improving the barometers now generally employed. For ten years he was engaged in investigating the physical structure and elevation of the Appalachian system of mountains, from N. H. to Ga.; and in 1855 was appointed professor of Physical Geography and Geology in the College of New Jersey. He published numerous large wall-maps of physical geography, and Geology in the College of New Jersey. He published numerous large wall-maps of physical geography, as well as many papers in the scientific periodicals. Buy 'tons, in Georgia, a post-town of Effingham co., 30 m. N.W. of Savannah, on Central R. R. of Ga. Turpen-

as well as many papers in the scientific periodicals. Died in 1884.

Giny'tom, in Georgia, a post-town of Effingham co., 30 m. N.W. of Savannah, on Central R. R. of Ga. Turpentine is distilled here. Pop. (1897) about 750.

Gun'mam-Blam'eo, Anyonio, born in Carácaa, 1830; vice-president of Venezuela (1863); was deprived of the office (1868), but restored to power (1870). Although others filled the position of president, Guzman was for many years the actual head of affairs, and in 1839 was acting as envoy to all the European courts. Popular discontent was aroused by reports of corrupt contracts made in Paris, and he was deposed from power.

Gwin, William McKendry, politician, horn in Sumner co., Tenno, Oct. 9, 1805; educated at Transylvanis University; studied medicine; removed to Vickaburg. Miss.; was member of Congress (1841-43); U. S. Senator (1850-61); imprisoned for alleged disloyalty (1851-63). In 1864 he went to Mexico and entered the service of Maximilian, who created him Duke of Sonora. After the collapse of Maximilian, G. made a futile attempt to colonize his vast possessions in Sonora with people of Southern birth. Died Sept. 3, 1886.

Gyl'dem, Hugo, astronomer, was born in 1841, at Helsingfors, Finland; was for a long time one of the principal astronomers at the Imperial Russian Observatory, at Pulkowa, and has since been director of the observatory at Stockholm, Sweden. His principal achievements have been in the problems of atmospheric refraction, the constant of abberration, and the lunar theory.

Gyni'act, Morbi, a. pl. [From Gr. gyse, woman,

theory.

Gymi'aci, Morbi, n. pl. [From Gr. gyac, woman, and Lat. morbus, disease.] (Path.) Developmental diseases of women, as chlorosis, &c.; those attending the parturient state, amenorrhoea, &c.

Gyp'sum City, or Gypsum, in Kansas, a post-village of Saline co., 16 m. S.E. of Salina on M. Pac. B. R.; has manufactures of cement. Pop. (1896) 630

The eighth letter in the English language, is an apprate belonging to the order of gutturals in most modern and ancient languages, and a simple attenuation of the sound expressed by the Greek χ and a simple attenuation of the sound expressed by the Greek χ and the German and Scottish ch. The claims of h to be regarded as a letter have been denied by many grammarians; and certainly, when it is remembered that the sound of this letter is produced by a mere emission of the breath, without any conformation of the organs of speech, this opinion would seem well founded. The form of the character corresponds to the Phoenician or Hebrew cheth (γ) and the Greek eta (H, probably at one time pronounced heta), which denoted originally the syllable che. The figure H was used by the Greeks to signify the aspirate, until about the 5th century before Christ. After that time it was gradually abandoned in Greek writing, while its use was still preserved by the Latina. In the former language it was superseded by the small mark called the spiritus asper (\*), which was the small mark called the spiritus asper (c), which was placed above the letter to which the aspirated sound was to be given. That the sound of h in Latin must have been faint, is sufficiently attested by the fact that many words were written indifferently with or without an h; as honestus or onestus. In many Latin words the letter s represents the Greek aspirate, as sub for \$ #6, sal for āλs, sex for āξ, septem for surd, serpe for āμω, &c. In the languages derived from the Latin, the force of h has almost disappeared. In the French it is retained as a character, but is rarely heard in pronunciation. In the Italian it is altogether absent; while in Spanish it has become substituted in many cases for the Latin f, as hijo=Lat. filius, a son: humoso=fumosus, smoky. In the languages of the Gothic stock, h sometimes represents the Latin e and the Greek \*; as, in horn, Gothic sents the Latin e and ine Greek 2, as, in norn, coinic hadern, Lat. cornu, Gr. stops. This substitution, and the subsequent absence of h, particularly before r and l, have completely obscured the kindred character of many words which derive from the same root; as, for instance, Eng. raw, A.S. hreaw, Lat. cru-or, blood, cru-dus, bloody, raw. In English, the letter h may be considered as peculiarly indefinable with regard to its orthospical position. The natural tendency in this lam. age (as in those derived from the Latin) is to altogether guage (as in those derived from the Latin) is to altogether eliminate the h; and this practice prevails, accordingly, among the lower orders of English people to an almost ineradicable extent,—a fault which the English-speaking classes of this country (possibly from the absence of dialectical provincialisms) are notably exempt from. In many districts of England, (and especially among illi-erate Londoners,) the practice of subverting the proper use of h, or, in other words, omitting it where needed and aspirating it where it ought not to be, may be ex-emplified, as in 'ome for home, hegg for egg, &c. Again, another difficulty is found in correctly locating the proanother difficulty is found in correctly locating the pro-nunciation of h, that is to say, before what words of which it is the first letter it ought to be aspirated. The rule governing this use of the letter is but vague: in harn, honor, hour, herb, with their derivatives, h is silent. It is generally defined to bear a mute signification in harmble, haspital, humor, &c.; but the rule is not absolute in these instances, many good speakers recognising the sound of the h. H is silent after g initial, as in ghost, ghoul, ghastly, gherkin; after r, as in catarrh, myrrh, rhomb, rhyme; and also when following a noun in the same syllable, as oh, Noah, buth, Pharaoh, &c. H is em-ployed in conjunction with certain consonants to form digraphs expressing sounds which are not represented in the alphabet, as sh, th, th, as in should, think, thus; also, to qualify the sounds of some other letters, as when following c and p; with the former producing a comalso, to qualify the sounds of some other letters, as when following c and p; with the former producing a compound sound like that of teh, as in change, chapel, with the latter of f, as in phosphorus, phantom, Philadelphia. Again, h coming after c and y, has the hard intonation before e, i, and g, as in chromology, chemistry, Ghetto, Gheni; in some other words, ch is sounded th, as in chiraltry, chevron. As an abbreviation H. stands for Hispania, Hadrianus, hic, hee, hoc, &c.; HH. for herrides; and HS. for sestertium. On French coins it signifies La Rochelle; on those of Austria, Günsburg. Among the Bomans it stood for the last of the eight nundinal letters. It was also used to symbolize 200, and H for 200,000.

200,000.
(Mus.) H is the designation given by the Germans to the note B B; their B being equivalent to the English B b,, and in their music denotes the seventh diatonic interval, or the twelfth string of the chromatic scale.

Ha, (interj.) An exclamation denoting surprise, joy, or grief.

"Ba! what art thou! thou horrid headless trunk?" — Rose.

-e. a. To express surprise; to hesitate; as, to hum and

Han, (hd,) a small island of Scotland, co. Sutherland, m. from Far-out Head.

Hanf, n. [Dan. haf, the sea.] A name applied to the fishery, or occupation of fishing, in the vicinity of the Shetland Islands.

Snetiand Islands.

Haak, n. Same as Hakk, q.v.

Haar'kies, n. [Ger. h.ar, hair, and kies, gravel pyrites.] (Min.) Capillary pyrites in very delicate account crystals.

Far'lem, a city and lake of the Netherlands. See SECTION II. Haar lem. in New York. See HARLEM.

Mab'akkuk. (Script.) The name of the 35th in order of the books of the Old Testament, forming one of those of the 12 minor prophets.

Hab'esa Cop'pus. [Lat., you may have the body.] (Law.) It is one of the first objects of all civil institutions to secure to every member the rights of personal liberty, or, in other words, the control and disposition of his own person, at his own will and pleasure, in such manner, however, as not to violate the laws or infringe upon the rights of others. It may seem, upon the first consideration of the subject, that this is not an object of the institutions and laws of an arbitrary government, since the sovereign, and those representing him in an executive or military capacity, may seize and imprison any one, with or without cause, or upon grounds more or less important and excussible, according as the government is, in its principles and in its administration, more or less arbitrary. But a slight reflection will show that, even in the most arbitrary governments, the first object is to secure one subject from the selzure of his person or the violation of his rights, whether of person or property, by another; for in a community of men, where every member should be left at liberty to seize upon and imprison any other, if he had the physical power to do so, there would be, substantially, and to practical purposes, no government at all. There might be an association of men acting under the orders of the prince, and in concert with each other, who should have more power than any other association in the community, and who might, accordingly, by the right of the strongest, selze persons and property at their own will and pleasure; but such an association would hardly deserve the name of civil polity or government, which signifies not merely physical power and superiority of force, which exists among brutes as well as men, but a body of laws more or less extensive, whereby the liberty and rights of the subjects are secured more or less effectually, according to the degree of improvemen person may be detained or imprisoned; and the term imprisonment, in this application, does not signify merely shutting up in a gaol, since the voluntary detention of a person in a private house or in the streets, says Sir William Blackstone, is an imprisonment. The cases in which imprisonment is lawful being thus ascertained by the law, the great provision of Magna Charta (q. v.) intervenes, namely, "That no freeman shall be seized or imprisoned, but by the judgment of his equals or the law of the land." The term equals or pers, here, has reference to an indictment or trial by jury, or other body, of which the office and functions are equivalent to those of jurors, as is the case in regard to the House of Lords, in respect to certain parties and offences. This particular mode of accusation or trial might as well be omitted, and the rule would then stand, that no man should be imprisoned but by the law of the land. It is the law alone that can imprison, and not the sovereign, or any representative of the sovereign, whether the sovereignty resides in one individual, or a body, or more than one body of men. This principle constitutes the leading feature of Magna Charta, and lies at the foundation of every free government. In order to secure personal liberty, and at the same time to maintain government, which requires, in the case of crimes and some others, the restraint of the person, it is absolutely essential that the law should not only specify explicitly the cases in which the citizen may be seized or imprisoned, but also provide that he shall not be arrested, or restrained of his liberty, in any other case whatever; and such is the law in the U. States and in England. Nor is this principle confined to the person, it being no less the law that a man's goods, setting aside his person, shall not be seized and detained, otherwise than by order of is this principle confined to the person, it being no less the law that a man's goods, setting aside his person, shall not be seized and detained, otherwise than by order of the law. Such being the rules that lie at the foundation of civil society, the very important questions occur: how these rules are to be enforced; how is the law most effectually to guarantee to every one of its subjects the inviolability of his person and property? The first and most obvious security is that derived directly from the law of nature, and not surrendered among the other sacrifices made by the members of a community to each other, as a condition procedent to the forming of civil sacrifices made by the members of a community to each other, as a condition procedent to the forming of civil society. The law permits every man to defend his person and property, and to repel by force, any unlawful invasion of either. It will not justify him in using extreme force, and committing any outrageous, disproportionate, or wanton injury, in resisting and repelling even an unlawful injury of his person or property; but it will justify him in using a reasonable degree of force, proportioned to the injuriousness or attroctivy of the violence attempted by the assailing party. But the law of nature affords hut a feeble protection, and men units lence attempted by the assailing party. But the law of nature affords but a feeble protection, and men unite

in communities for the purpose of obtaining more effectual defences against wrong, and reparations for injuries when committed; and the very first provision of the law is to inflict punishment for any wrongs and violence whereby the public is disturbed, and also to make reparation to a party injured. If one man unlawfully seizes the property, or imprisons the person of another, he is, by the laws of every community, liable to make amends in damages. As far, therefore, as an injury is such that it can be repaired by a pecuniary compensation, and as far as the trespasser is able to make such reparation, the remedy is complete. But since trespassers are not always able to make reparation for injuries, and some injuries are such that pecuniary damages are not an adequate reparation, and also, because the law intends to prevent wrongs, as well as to provide for punishments and compensations where they have been committed, it provides certain processes for immediate prevention, in case of a violent and unauthorized invasion of property or person. Of this character are the processes committed for fourther activation and also are the amounter of complete active to provide immediate prevention, in case of a violent and unauthorized invasion of property or person. Of this character are the processes on complaint for forcible entry on real estate, the action of replevin in respect to goods and chattels, and the writ de homine replegiando, or writ of H.C., in respect to the person. The writ de homine replegiando is similar to that of replevin, and is, in fact, as its name imports, the replezing of a man. When a man's person has been carried out of the country, so that he cannot be found, then a process takes place somewhat similar to that adopted when goods are carried off, so as not to be repleviable. In the case of the goods, a process in withernam issues, by which other goods are taken. Bo in the case of the man; the person who thus conveyed him away is himself taken in a progoods are taken. So in the case of the man; the person who thus conveyed him away is himself taken in a process in withernam, as a pledge for the restoration of the person sought to be replevted. This process of replevying a man is very ancient in the English law; forms of the writ being given by Fitzherbert, and also found in the Register of Writs. But it was not until more than the Register of Write. But it was not until more than 400 years after the date of Magna Charta that an adequate remedy was adopted, whereby the great privilege, provided for in that charter, was effectually secured. This security was effected by the Hubeas Corpus Act, passed in the 31st year of Charles II. c. 2, which has been adopted, in substance, in all the U. States; and many of the State constitutions expressly guarantee to the citizens the right to this writ, as one of the fundamental mischiles of the growarmant; and by the Consents! passed in the 31st year of Charles II. c. 2, which has been adopted, in substance, in all the U. States; and many of the State constitutions expressly guarantee to the citizens the right to this writ, as one of the fundamental principles of the government; and by the Constitution of the U. States, the privilege of this writ is secured, at all times, except in cases of rebellion or invasion, when the public safety may require its suspension. The right is liable to be suspended in England in the same cases, it being sometimes necessary to clothe the executive with an extraordinary power, as the Romans were in the habit of choosing a dictator in emergencies, when the public was in danger. This, as Sir william Blackstone says, is the sacrifice of the security of personal liberty for a time, the more effectually to secure it in future. As all times, when the privilege is not suspended by law, every citizen has a right to this writ. It is, however, to no purpose that the party should be brought before a judge, on habras corpus, to be immediately remanded to prison. The laws, accordingly, except certain cases; thus the laws of New York provide, that if a person is not a convict, or in execution by legal process, or committed for tresson or felony, plainly expressed in the warrant, and has not neglected to apply to be released for two whole terms, he is entitled to this writ. An application may be made to a judge, either in court or out of court, for this writ; and if it does not appear that the person is imprisoned under some of the circumstances shove named, or if it be in some other State than New York, if it does not appear to the judge to grant the writ, directed to the gooler, officer or person who detains the complainant, ordering him to bring the prisoner before him. The laws except only the plainest cases, then it is the absolute duty of the judge to grant the writ, directed to the gooler, officer or person who detains the complainant, ordering him to bring the prisoner before him. The laws of England provide

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Hab'erdash, v. n. To deal in small wares; to peddle.
Hab'erdasher, n. [Possibly from Ger. habe, goods, and vertauscher, a barierer.] A seller of small wares, confined at present to ribbons, pins, tapes, needles, and thread.

Hab'erdashery, n. The wares sold by a haberdasher the business of a haberdasher.

the usuness of a habordasher.

Haberdine, (hab-r-deen',) n. [Probably corrupted from Abrdeen.] A dried salt cod.

Haber'geom, n. [Fr. aubergeon; A.S. hals, the neck, and beorgan, to defend.] (Anc. Armor.) A coat of mail; a piece of defensive armor, in the form of a coat or tunic (Neh. iv. 16; Job xii. 26), descending from the neck



Fig. 1223. — HABERGEON.

to the middle of the body, and formed of tough hide, or many quilted linen folds, or of scales of brass overlap-ping each other like fishes' scales, or of small iron rings or meshes linked into each other, (Ez. xxviii. 32; xxxix.

Hab'ergham-Eaves, a town of Lancashire, Rug-land, 2 m. N. of Burnley. Manuf. Cotton and woollen goods; in its neighborhood are also coal-mines. Pop. 8,359.

8,350.

\*\*Mah'ershaum, in Georgia, a N.E. co., bordering on S. Carolina; area, abt. 450 sq. m. Rivers. Tugaloo, Chatthooches, Soques, Tallulah, and Broad rivers. Surface, broken and hilly, a spur of the Blue Ridge traversing it from N. to S., mounts Yonah and Currahee rising to considerable heights. Soil, in general fertile. Min. Gold, rulles, diamonds, cornelians, and iron. Cap. Clarkeeville. ville

ville.

Habil'iment, n. [Fr. habillement, from habiller, to clothe, from Lat. habers, to have.] A garment; clothing. (Mostly used in the plural.)

Hab'it, n. [Fr., from Lat. habilus, a dress.] State or condition of anything; as, habil of body.—Tempera-Habil'iment, n.

ment: a tendency to, or aptitude for, the performance of certain actions, acquired by custom, or a frequent repetition of the same act. — See Custom.

repetition of the same act. — See CUSTOM.

Garb; drees; clothes, or garments in general.

"Cosity thy habit, as thy purse can buy."— Shabs.

—A coat worn by ladies over their other garments; as, a riding-habit, a walking-habit.

(Bit.) The general features or aspects of plants, or of their mode of growth. — The resemblance in structure and growth between plants of the same species.

—v. a. To drees; to clothe; to deck; to array.

Hab'itable, a. [Fr., from Lat. habitabilis, from habitare, freq. of habere, to have.] That may be dwelt in; capable of sustaining human beings; as, the habitable portions of the globe.

portions of the globe.

Hab'tableness, n. Capacity of being inhabited.

Hab'tably, adv. In a habitable manner.

Habitably, adv. In a habitable manner.

Habitaney, n. Same as Inhabitancy, v.

Habitane, n. [Lat. habitans, po of habitare, to dwell.] A dweller; one who lives in any place.

"Rart's habitans." — Miton.

Habitans, (a'be-ing), n. pl. The name by which the inhabitants of Canada, born in the country, but of French origin, are known.

Habitat, n. [Lat., it swells.] (Zoü. and Bot.) The natural abode or locality of a plant or animal.

Habita'tion, n. [Fr., from Lat. habitatio.] Act of inhabiting; state of dwelling; as, a palace in ruin for want of habitation.

—Place of abode; a settled dwelling; a mansion; a house;

-Place of abode; a settled dwelling; a mansion; a house;

a residence.

"A local habitation and a name." — Shake.

(Bot.) The habitat, or extent of territory, over which any given species of plants may grow. **Hab'ited**, p. a. Clothed; dressed; as, habited befitting

Habit'ual, a. Formed or acquired by frequent use or custom; customary; as, habitual piety, habitual pro-

fanity. -Usual; accustomed; rendered permanent by continued causes; as, the habitual color of the skin, a habitual

characteristic

characteristic.

Habit'ually, adv. By habit; customarily; by frequent practice or use.

Habit'ualness, n. Quality or state of being habitual.

Habit'uate, v. a. [Fr. habituer; L. Lat. habituare, to accustom; to train: to accustom; to make familiar by frequent use or practice; to lnure.

"They habituate themselves to their vicious practices." Tillotson.

by custom.

Habitua'tien, n. Act or state of being trained, accustomed, practised, or inured to a habit.

Hab'tude, n. [Fr. from Lat habitudo.] Belative state or condition; customary manner or mode of life; custom; habit; repetition of the same acts; as, the habi-

tudes of good company.

Habituda, (a-be-to-ory,) n. [Fr.] One accustomed to a certain place, employment, amusement, &c.; as, an habitud of the tavern, of the theatre, &c.

Hab'mab, adv. [Corrupted from hap-ne-hap, i. e. let it happen or not.] At random; by chance; without any rule or certainty of effect.

ered and astral characters set down he Habe burg, Hape burg, [Lat. Habsburgum,] a castle of Aargan, in Switzerland, 8 m. N.E. of Aaran, founded in 1020. It is the cradle of the House of Aus-

tounded in 1020. It is the cranic of the House of Austria.—See Hapshum (House or).

Hachette, Janns, (d-shet') an heroic young Frenchwoman of Beauvais, who inspired and led on a troop of armed women to encounter Charles the Bold in 1472, when he attacked their city. When the walls were stormed, she slew a standard-bearer who led the assault, stormed, she siew a standard-bearer who led the assault, as he was about to plant the trophy on the rampart, and hurled the body into the moat, at the same time setting her foot on the standard. In memory of this act, and for her gallant services, the inhabitants have for ages held a procession on the 10th of July, in which the women take precession on the 10th of July, in which the women take precedence of the men; and further, to mark their admiration, her descendants were for ever exempted from the payment of taxes.

Hachure', n. [Fr. hacher, to hack.] A short line used by map-engravers, most usually in delineating mountains.

tains.

-c. a. To form the representation of mountains on a plane surface, as in map-engraving, by means of short lines called hachures.

Haclenda, (a-th-en'da,) n. [Sp., from Lat. facienda, pl. of faciendum, a thing to be done, future p. part. of facere, to do.] In Spanish-speaking countries, a single plantation, or the dwelling and out-buildings pertaining thereto. —An estate on which mining, agriculture in any of its branches, or the breeding of cattle, is carried on —A public treasure: explesive.

on. — A public treasure; exchequer.

Inch, v. a. [A. S. haccan; Ger. hacken; allied to hash and gash.] To chop; to cut irregularly and in small pieces; to notch; to mangle by repeated blows of a

cutting-instrument.
"I'll fight till from my bones my fissh be hacked."

To speak with stops or catches, or with hesitation.

A. A notch; a cut. — Hesitating or faltering speech.

E. M. To cough frequently in the effort to raise phiegm. To be exposed for hire, as a hackney-horse. -

— To be exposed for fire, as a nickney-norse. — To become a prostitute.

Hack, n. [Abbrev. of Hackney, q. v.] A horse kept for hire; a horse much used for draught or hard service; a worn-out horse. — Anything exposed for hire, or used in common; a coach or other carriage kept for hire. in common; a coach or other carriage kept for hire. —
A writer employed in the drudgery and details of bookmaking. — A rack for holding hay, straw, or fodder for
cattle. — A name given to the rows of crude brick as
they are exposed in the field to dry. — A pick used in
chipping stone. — The frame in the tail-race of the mill.
—a. Hired; much used or worn, like a hired horse.

Hack'berry, n. (Bot.) See CLITIS.

Hack'bolt, n. Same as PUFIN, q. v.

Hack'but, n. Same as PUFIN, q. v.

Hack'ensack, in New Jersey, a poet-town and township, cap. of Bergen county, on the Hackeusack river,
about 10 m. N. by W. of New York. Has extensive
manufactories. Pop. (1895) 7,282.

Hackensack River, in New York and New Jersey,
ries in Rockland co., of the former State, pierces New
Jersey in Bergen co., and continuing its S. course, enters
Newark Bay from Hudson co.

Hack'ee, n. (Zoil.) The Chipmunk or striped squirrel.
See Scuunds.

See SCIURIDE.

Hack'ery, s. [Hind. chakhrā, a cart.] A street-cart drawn by oxen; much used in Bengal.

drawn by oxen; much used in Bengal.

Hack'etstown, a town of Ireland, in the co. of Carlow, Leinster, about 8 m. 8. E. of Baltinglass. Pop. 1,021.

Hack'etstown, in N. J., a post-town of Warren co., on D. L. & W. R. R., 62 m from New York. Pop. 2,594. Hack'ing, a. Short and interrupted; as, a hacking

Hac'kle, v. a. [Dut. hekelen. See the noun.] To comb, as flax; to separate, as the coarse part of hemp or flax from the fine, by means of a hackle.— To tear assuder.— —. [Dut. hekel, a comb; Ger. hechel, allied to haken, to grapple, to hook.] An instrument with teeth, or a board grapple, to nook.) An instrument with teeth, or a tolard set with spikes, for separating the coarser part of hemp or flax from the fine; a hatchel. — Raw silk; any flimsy substance unspun. — A fly for angling.

Hac'kles, n. pl. A term applied to the slender feathers from the neck and backs of birds used by fly-fishers.

The most esteemed hackles are the duns.

Hack'y, a. Rough; broken, as if hacked.

Hack'ney, n. [Fr. haquenée; L. Lat. hakaneius, from equus, a horse.] A horse kept for hire; a horse much used.—A coach or other vehicle kept for hire; anything much used, or used in common. See COACH.—A hireling;

also, a prostitute,
-a. Let out for hire; devoted to common use; prostituted;

—a. Let out for hire; devoted to common use; prostituted; much used; common: trite; as, a hackney quotation.
—r. a. To use much; to practise in one thing; to make trite. — To carry in a hackney-coach.

Hack'neyed, p. a. Used much or in common; worn out; as, a hackneyed metaphor. —Practised; accustomed.

Hack'ney-man. n. pl. Hackney-man. A man who lets out carriages with horses for hire.

Accustomed; rendered familiar by use; inveterate of custom.

bitum'tiom, n. Act or state of being trained, customed, practised, or inured to a habit. bi'itude, n. [Fr. from Lat. habitude.] Relative, it from the habitude of condition; customary manner or mode of life; as conditions as conditions as conditions. The conditions are conditions as conditions are conditions as conditions. The conditions are conditions as conditions are conditions as conditions. about 2.100.

Had'dam, in Kassas, a post-village of Washington co. Had'dam Neck, in Connecticut, a post-office of Middlesex co.

disex co.

Had'dington, or East Lethiam, a county of Scotland, bounded N. by the Frith of Forth, S. by Berwick, E. by the German Ocean. W. and S.W. by the county of Edinburgh. Area, 230 ag. m. Mansef, Potterly, salt, linens, and woollens. The country produces all the grains, beans, turnipa, and grasses. F.pp. 40,700.

— A town, capital of the above country, on the Tyne, 15 m. E. of Edinburgh. It has an extensive grain-market.

— A town, topical.

m. E. of Edinburgh. It has an extensive grand-man and the property of the State House.

Had'dington, in Pennsylvania, a suburban village within the chartered limits of Philadelphia, abt. 5 m.

W. by N. of the State House.

Had'doek, n. [0.Fr. hadat; W. hadaveg.] (ZoZ.) The Morrhua zejtsmus of Linneus (Fig. 1224), a well-known Malacopterygious fish, is nearly allied to the cod; and like it, is a native of the northern seas, where it assembles in prodigious shoals, visiting particular coasts at stated seasons. Nor is it by any means accree on the shores of America, particularly along the eastern coast from New York to the Arctic regions: and as its fiesh is sweet and wholesome, and it comes at the season when cod is scarce, it is a fish of considerable value. The H. is generally about welve or fourteen inches in length, and weighs from two to three pounds; though, occa-

in length, and though, occa-sionally, they are met with nearly three feet long, and weighing 10 or 12 pounds; the smaller or noderate sized ones however, are



Fig. 1224. - HADDOCK, (Morrhua ægicfi

most esteemed for the table. The body is long and slender; the head slopes suddenly down from the crown to the point of the nose; the lower jaw is longer than the upper, and furnished with a narrow band of teeth; the barbule at furnished with a narrow band of teeth; the barbule at the chin is small; the eye is large, and the irides silvery; the head, cheeks, back, and upper part of the sides are of a dull-grayish hue; lower part of the sides and belly, silvery. On each side is a large black spot. The lateral line is black; the dorsal fins and tail dusky bluish-gray; pectoral, ventral, and anal fins lighter; the tail bifd. Their food is small fish, crustacea, and marine insects. They spawn in February and March; and they are in the best condition for the table from October to January.

See Finnan.

Had'don, in Ind., a twp. of Sullivan co.

Haddon, in New Jersey, a township of Camden

Haddon, in New Jersey, a township of Camdea county,
Had'donfield, in New Jersey, a post-borough of Camden Co., on 2 R.R. lines, 6 m. S. E. of Camden. Pop. 2,670.
Hade, n. [A.S. heald; Ger. halde, a declivity.] [Missing.]
The inclination which nearly all veins of mineral hate from a perpendicular direction; as, a hade to the north, when the general inclination is to that point. (Said only of mineral veins.)

v.n. To deviate from the vertical; as, the vein hades east. Had'elm, a district of Prussia, in Hanover, extending for 12 m. along the mouth of the Elbe; area, 110 sq. m. H. is marshy, generally fertile, below the sea-level, but well protected by dykes.

well protected by dykes.

Had'er, in Minnesota, a post-village of Goodhue co., abt.

20 m. S.W. of Red Wing.

Had'erslebem, a town of Prussia, in Schleswig, on the
Little Belt, 31 m. N. of Flensburg. Its harbor serves as
a means of communication between Schleswig and the
island of Funen.

island of Funen.

Ha'des, n. [Gr. hades, also haides, from a privative, and idem, to see.] (Gr. Myth.) A word denoting the abode of the dead, or the reputed god of the nether world, called also Pluto. Hesiod makes the mortals of the brazen age the first who descended to Hades.

Hadd'ing, n. (Mining.) The direction of a slip or fault.

the oraxen age the first who descended to Hades.

Had'ing, n. (Mining.) The direction of a slip or fault.

Hadji, (hdd'ji.) [Ar., a pilgrim.] The title of a Mohammedan who has performed a pilgrimage to Mecca, a religious act which every true believer is bound to perform at least once in his life; but minors, slaves, and lunatics are exempt from this obligation. Hadp'is the name of the celebration which takes place on the arrival of the caravans of pilgrims at Mecca, and a Mohammedan who has made the pilgrimage commonly bears for the rest of his life the title of hadj'i prefixed to his name. As is well known, presence at these ceremonias is strictly prohibited to all but the faithful; but at least five European Christians are known to have been present at these ceremonies: the last two of these were the celebrated travellers Burckhardt (in 1814) and R. F. Burton (in 1853), both of whom have published interesting accounts of their journeys.

Hadleigh, (had'ly,) a town of Suffolk, England, on the Bret (tributary of the Stour), 8 m. W. of Ipswich, 58 m. N.E. of London. Manuf. Silk stuffs and yarn-spinning. Pop. 4,740.

Pop. 4,740.

Hadley, in Minois, a post-village of Will co., abt. 23 m. S.W. of Chicago.

—A village and township of Pike co., abt. 20 m. E. of Hab-

nibal Digitized by GOGIC

Hand'ley, in Massachusetts, a post-town and township of Hampshire co., on the Connecticut river, about 90 m. W. of Boston. Pop. (1895) 1,669.

Had'ley, in Michigan, a post-village and township of Lapeer co.

Hand'ley, in New York, a post-town and township of Saratoga co., on the Hudson river, 64 m. N. by W. of Albany. Pop. (1897) about 1,200. Hand'ley's Mills, in North Carolina, a post-village of

Chatham co

Had'ley Sta'tion, in Illinois, a village of Lawrence

county.

Had lyme, in Connecticut, a post-village of New London co., on the Connecticut River, abt. 30 m. 8.8.8. of

El mel'ramant, an extensive province of S. Arabia, ex tending along the Gulf of Oman, between Yemon on the W. and Marah on the E. It was a part of the ancient Arabia Felix, and is guarded by a mountain-range along the coast, which has an average elevation of 5,000

Had'rian. See Adrian.

Hadriano ple. See Adrianople.

Hacce 'ity, n: [L. Lat. hacceitas, from hacce, intensive form of hac, fem. of hic, this.] (Logic.) The relation of subjectivity or individuality, imagined by the philosophers called Schoolmen to have been a positive

Haem'achrome, n. [Gr. haima, blood, chroma, color.]
(Chm.) A name sometimes given to the coloring-matter
of the blood.—See Hamoglosin.

Elizem acryme, n. [Gr. huima, blood, and krumos, cold.] A name given by Latreille to any animal having cold blood.

Elizemand's mamom'eter, n. [Gr. haima, blood, dy-mamin, force, matron, measure.] An instrument to mea-ure the pressure of the blood. It indicates both the pressure of the blood in the blood-vessels and the time movements, by the variations in a column of

mercury.

Herimal, a. [Gr. haima, blood.] Relating to the blood, or the blood-vessels.

Herimal Arch. n. (Anat.) That part of the vertebra,

Else usal Arch. n. (Anat.) That part of the vertebra, or primary segment of the skeleton, which eucompasses the main axis of the vascular system or its prolongations. It is situated opposite the neural arch, and, except in mass, is inverted and beneath the centrum. Hieman'thus, n. [Gr. haima, blood, and anthos, flower.] (Bot.) The Blood-flower, a genus of plants, order Amaryllidaces. The juice of H. toxicarius is extremely poisonous, and is used by the Hottentots to poison their arrow-heads.

Hiemanpophy'sis, n [Gr. haima, blood, and apophusis, a process.] (Anat.) The autogenous vertebral elements which close or form the hemisi arch. In the human thorax they close the arch, as cartilages of the

human thorax they close the arch, as cartilages of the ribs, with the aid of a hemal spine or sternal bone; in the saurian tail they form, with the spine, the entire hemal arch.

Elemateme'sis, n. [Gr. haima, blood, and èmèsis vomiting.] (Med.) The vomiting of blood from the stom-Essmateme'sis, n. [Gr. haima, blood, and èmèsis, vomiting.] (Med.) The vomiting of blood from the stomach. An individual, previously, perhaps, to appearance, in robust health, after some strong mental emotion or physical exertion, is su lienly seized with a sense of fulness of the stomach and sickness, when he speedily ejects by vomiting a quantity of blood. The attack is usually preceded by various premonitory symptoms, as loss of appetite, indigestion, nausea, unessiness or pain in the epigastric region, &c. The blood proceeding from the stomach is to be distinguished from that coming from the lungs, and will be known by its being almost always of a dark color, while that proceeding from the lungs is generally bright and florid. H. may exist, and yet no blood be ejected; for it may come in small quantities and pass through the alimentary canal; exist, and yet no blood be ejected; for it may come in small quantities and pass through the alimentary canal; it may also proceed from the feeces, mouth, or nostrils. It may result from various causes; as, l, it may be idiopathic: 2, it may be vicarious of some other habitual hæmorrhage; 3, it may depend upon discuse or injury of the stomach itself; 4, it may be the consequence of discusse situate elsewhere, and producing mechanically a pletbora of the veine of the stomach; 5, it may result from a morbid condition of the blood, and form one symptom of a more general discuse. The mode of treatment will necessarily vary in particular case; in general, every effort is to be made to tranquillize the circulation and to arrest the hæmorrhage, for which purpose ice taken into the stomach is often very beneficial. The acetate of lead, in combination with opinm, may also be given. All irritating substances should be avoided: be given. All irritating substances should be avoided: and whatever nourishment is taken into the stomach should be in the form of cold liquids. This is a disease

should be in the form of cold liquids. This is a disease which is often feigned by impostors swallowing blood and afterwards vomiting it.

Hemm'atherm, n. [Or. haima, blood, and thermé, heat.] (Z.dl.) A name given by Latreille to any animal having warm blood;—the opposite of hamacryme.

Hemmat'ics, n. pl. Medicines that act, or are believed to act, on the blood, and to have a specific tendency in changing its constituents when corrupted.

Hemmat'estin, Hemmat'estin, n (Chem.) A product of the decomposition of the hamoglobin of the blood. It occurs in old extravanations.

Hemmat'estin'ics, n. pl. Articles of the materia medica which tend to increase the number of coloring globules in the blood. Various preparations of iron are mostly used for this purpose. used for this purpose

used for this purpose.

Hiem'atite, n. (Min.) Native oxide of iron, the streak and powder of which are blood-red. It is more frequently written Hematite, q. v.

Hiemat'occle, n. [Gr. haima, blood, and kölö, a tu-

mor.] A swelling or tumor arising from extravasated | blood.

mor.] A swelling or tumor arising from extravasated blood.

Heematoe onite, n. [Gr. haima, blood, komis, powder.] (Min.) A variety of calcite or carbonate of lime, colored red by seequivaide of iron.

Heemato-erystal lim, n. See Hemoglobin.

Heematol dim, n. (Vhem.) A crystalline body (an oblique rhombic prism), of a bright orange-red color, formed in blood which has been effused into the tissue of a live animal. It is soluble in ammonia.

Heematol orgy, n. [Gr. haima, and logos, a discourse.] The doctrine of the blood; the medical belief connected with the blood, and the various ideas as regards the healthy change of its constituents.

Heematopo dides, n. pl. (Zool.) A family of Grallatores birds, comprising Waders, which have the bill compressed. The best-known species or genera are the Oyster-catcher and the Thematons, q. v.

Heematomo's, n. [Gr. haima, blood, mon, a living being.] (Zool.) A term applied to the animalcules, or entozoa, which exist in the blood of mammals, birds, reptiles, shees, and many invertebrate animals. They are generally microscopic, without generative organs, and found existing in the blood circulating but to the are generally microscopic, without generative organs, and found existing in the blood circulating both in the arteries and veins. A very small proportion attain a large size and have organs of reproduction; these are generally found in some special part of the body. Thus the variety called Distoma hamalobium is only found in the variety called Distoma hamalobium is only found in the abdominal venous system; another variety is found restricted to the abdominal arterial system of the horse; and the Preudalius filum is only found in the pulmonary artery and branches of the porpoise. Very little is known concerning the origin of these entozoa. It seems probable that some of the minute forms are the larve of a worm living in the organs surrounding the vessels. The most important of the human hæmatozoa is the variety mentioned above; it has only been olserved in Egypt. The liver-fluke, Distoma hepaticum, has sometimes been found in the interior of the portal vein. Those hæmatozoa which have been found in tumors must have been conveyed there by the blood. Horses and dogs are frequently affected with these parasites; in the case of the latter animal, they are seldom large enough to be visible to the maked eye. The presence of enough to be visible to the naked eye. The presence of

enough to be visible to the naked eye. The presence of hamatozoa does not, however, seem to affect the general health of either men or the animals.

Hematu'ria, n. [Gr.haima, blood, and ouron, urine.] (Med.) A discharge of urine intermingled with blood.

Hemadora'ceee, n. pl. [From hamadoron, one of the genera.] (Bot.) An order of plants, alliance Narcissales.—Diag. Hexapesalordeous tubular flowers, 3 stamens opposite the petuls, or 6; anthers turned inwards, and radicle remote from the hilum, which is naked.—They are herbaceous plants, with fibrous roots and sword-shaped leaves. There are about 50 known species, chiefly natives of N. and S. America, B. Africa, the Mascarene islands, and New Holland. Some of them the Mascarene islands, and New Holland. have beautiful flowers. A red color exists in the roots of some; hence, the name Blood-root has been given to them. In this order are ranked the Vellosia, or Tree

Heemoglo'bin, n. (Chem.) A substance forming the principal part of the red globules of the blood of vertebrate animals. From the blood of some animals it can be obtained in crystals, which are of different forms in different animals. The H. of venous blood differs from that of arterial blood; and this difference is caused by its union with oxygen in arterial blood, and loss of oxygen in the venous blood. The red color is due to th

that of arterial blood; and this difference is caused by its union with oxygen in arterial blood, and loss of oxy gen in the venous blood. The red color is due to the presence of a small quantity of oxide of iron.

\*\*Reemep'sysis, n. (Gr. haima, blood, and ptusis, spitting.] (Mcd.) The coughing up of blood from the lungs and air-tubes. It is important to ascertain the source of the blood which escapes from the mouth, and, if determined to be from the lungs, to ascertain whether it is symptomatic of disease of these organs, or merely vicarious in its character. It is not so much dangerous in itself as an indication of some other dangerous disease, being most frequently connected with tubercular consumption. Bleeding from the lungs may occur without organic disease in plethoric and robust individuals living a life of excitement and excess, and in nervous, irritable individuals weakened by mental or bodily fatigue, and leading sedentary lives. It is often hereditary, and may be brought on by violent muscular effort, paroxysms of cough, blows or pressure on the chest, inspiration of irritating vapors, or of rarefied air on high mountains. The blood may be exuded from the tracheal or bronchial membranes, or it may proceed from capillaries communicating with the air-passages in any part of their extent. The amount varies from a drachm or two to as many pints at a time, and is generally found and more or less mixed with air differing. any part of their extent. The amount varies from a drachm or two to as many pints at a time, and is generally florid, and more or less mixed with air, differing from the dark, coagulated blood which connes from the stomach. An attack is frequently announced by a feeling of heat and oppression in the chest behind the sternum, followed by a cough, which brings up the blood. When the quantity avery great, it course forth without When the quantity is very great, it pours forth without cough, and almost by an act of vomiting, with consider-able spasmodic effort. In all such cases, it is best to seek able spasmodic effort. In all such cases, it is best to seek medical advice as early as possible. Among the agents that are useful in arresting hemoptysis may be noticed the essence of turpentine, 10 to 30 drops in a glass of water, twnin, or sallic acid. Nauseating medicines, as tartar emetic and ipecacuanha, are also frequently employed. Common salt, in a dose of from 60 to 120 grains, is an excellent popular remedy. In all cases, calmness of mind, rest, silence, erect position, cool air, and freeness of the bowels, should be enjoined. When the attack proceeds from congestion, blood-letting is recommended in certain cases. If cough be present, it should be allayed by parcotics. After the attack satringent tonics, as iron and quinine, may be given; and the re-turn of the bleeding is to be guarded against by avoid-ing the exciting causes, and attending to the rules of

ing the exciting causes, and attending to the rules of health.

Henm'orrhage, Hem'orrhage, n. [Gr. haimorrhagia, from haima, blood, and rhegmusthai, to flow! [Med.] A bloeding or flow of blood from some of the vessels of the body. The most common cause of hemorrhage is external violence, by which the blood-vessels of a part are divided. When an artery of some size is thus injured, a continuous stream of bright red blood is projected with a force proportioned to the size of the vessel, and with a motion corresponding with the pulsations of the heart. If a vein, on the other hand, be injured, the blood is of a dark crimson color, and the flow is continuous and equable, with much less force than from an artery. Where merely a number of capillaries are injured, the blood flows in a more or less rapid coging from the wound, but without being projected to any distance from the body. When a large artery is cut, the bleeding is so excessive as to cause almost instant death. If of smaller size, fainting is usuartery is cut, the bleeding is so excessive as to cause almost instant death. If of smaller size, fainting is usually, after a time, produced by loss of blood, and, the heart ceasing its action, the blood coagulates about the wound, and thus stops it up. Frequently the returning action of the heart forces away the obstruction, and the blood flows afresh; and in this way, if not attended to, the patient may perish from exhaustion. With arteries of smaller size the flow of blood in at first multiblood nows arresh; and in this way, if not attended to, the patient may perish from exhaustion. With arteries of smaller size, the flow of blood is at first rapid, but after a few minutes, with exposure to the air, the orifice contracts, the blood coagulates, and the bleeding ceases, without much danger of returning. Hemorrhage from wounded veins is much less daugerous, as the blood without much danger of returning. Hammorrhage from wounded veins is much less dangerous, as the blood flows with much less violence, and the edges of the vessels tend more to come together. Hence bleeding from a vein is seldom immediately fatal. When blood gusines out from internal parts, through any of the natural apertures of the body, the person is commonly said to have "burst a blood-vessel." This, however, is very rarely the case. If there be any rupture, it is usually only one of the minute capillaries; but even of this there is often no palpable evidence. Blood may exude abundantly from a surface which presents, to the naked eye at least, no appreciable injury or change. There are even well-authenticated instances on record of cutaneous hamorrhage, where a dew of blood has appeared upon some portion of the skin, and been wiped away, and reappeared again and again, without any discernitile change of the affected surface, beyond some occasional variation of its color. There are also what are termed "habitual hamorrhages," as from the nostrile, &c, which take place periodically with certain individuals, and belong to the original constitution of the body, and can scarcely be regarded as disease. Again, there are certain forms of hamorrhage not habitual, which may be denominated idiopathic, inasmuch as they are apt to arise without any perceptible connection with antecedent local disease. In other respects they differ condicably, and are distinguished as active and passive. arise without any perceptule connection with antecedent local disease. In other respects they differ considerably, and are distinguished as active and passive,—the former being preceded by active congestion, and therefore akin to inflammation; the latter often occurring without any apparent previous congestion of any kind. Passive hemorrhage derives its name from helps assibled to surrecharge in the condition of the any kind. Passive hemorrhage derives its name from being ascribed to some change in the condition of the blood-vessels themselves by which their textures be-come relaxed and debilitated; but more probably it arises from some alteration in the condition and conarises from some atteration in the condition and con-sistence of the blood fiself, which becomes attenuated. Active hæmorrhage occurs principally in persons who are young and robust, who live well and lead indolent lives,—and is, for the most part, to be regarded as an effort of nature to cure itself. It is followed by morbid effort of nature to cure itself. It is followed by morbid consequences only when the quantity has been excessive, or when it inflicts some mechanical injury upon the parts along which the blood passes. Hence it is frequently improper to employ any direct means of stoping the flow of blood; but much will depend upon the circumstances of each particular case. As they are akin to inflammation, the treatment of inflammation may often be requisite. In all severe cases, the antiphlogistic regimen should be strictly enjoined. The patient must be kept in a state of absolute quiet; all motion of the body and emotion of the mind, all kinds of stimulating food and drink, should be carefully avoided; and the patient currounded, as much as possible, by cool, fresh air. Sometimes, as in inflammation, it is necessary to have recourse to venesection, in order to divert the current of blood from the suffering organ.

Mercury is an important remedy for inward bleedings. Mercury is an important remedy for inward bleedings. Cold is also a valuable remedial agent, placed either in

Cold is also a valuable remedial agent, placed either in direct contact with the bleeding surface, or as near as possible to it. Accate of lead, and the various vegetable compounds of gallic acid, are important astringent remedies in such cases. When a large artery is wounded, it is generally necessary to pass a ligarare around it, above and below the wound.

Have morrhoids, or Pliess, (hem'or-reyds.) n. pl. [Gr. haima, and rheo, I flow.] (Med.) A disease of the rectum and anus, accompanied or followed by tumors in those parts, or by a flow of blood from them when the patient is at stool, recurring after intervals, and sometimes periodically. It is usual to apply the term either to a simple bleeding from the veins of the lower part of the rectum, recurring more or less frequently, yet not accompanied with any distinguishable tumors, either within or on the outside of the anus; or else to swellings formed by a variose distention and norbid thickening of those vessels, either with or without occasional hemorrhage; or, lastly, to tumors originally produced by effused blood, but subsequently converted into as

Digitized by GOOQI

erganized substance. They are distinguished into external and internal piles, according as they are situated outside of or within the anus; and into blind, or such as do not bleed; and open, or such as are liable to occasional homorrhage. The tumors vary greatly in size and form, some of them being hardly as large as a pea, alternate a walnut of angle. The supersulation of the birdical outside of or within the anus; and into blind, or such that the supersulation of the birdical outside of or within the anus; and into blind, or such that the supersulation of the birdical outside of or within the anus; and into blind, or such that the supersulation of the birdical outside of or within the anus; and into blind, or such that the supersulation of the birdical outside of or within the anus; and into blind, or such that the supersulation of the birdical outside of or within the anus; and into blind, or such that the supersulation of the birdical outside of or within the anus; and into blind, or such that the such th others as large as a walnut or apple. They are some-times attended with great pain, so that the patient can neither sit nor walk, with generally more or less fever seither sit nor walk, with generally more or less fever and restlessness. Sometimes the patient's strength is greatly reduced by discharges of blood or sero-purulent matter; or inflammation of the neighboring parts may be induced, causing abscesses, fistules, &c. Generally, however, the discusse is of a less severe nature. It may be caused by anything which is capable of retarding the return of blood through the hemorrhoidal veins. The pressure of the gravid uterus, costiveness, and the frequent retention of hardened faces in the rectum, are frequent causes. Persons of sedentary habits are often troubled with this disease. In its treatment, it is of importance that the bowels be kept open by gentle laxieve medicines, as castor-oil; and great benefit will often be derived from the application of warm water to the part, or from sitting over a steam of warm water when at stool. An ointment composed of equal parts of the powpart, or from sitting over a steam of warm water when at stool. An ointment composed of equal parts of the powder of oak-galls and hog's lard, and applied to the part, is usually of great service. The application of leeches to the part is also recommended, if the disease be in a state of inflammation. Where all other remedies fail, it is often necessary to have recourse to an operation; but this should only be in very severe cases, as it is not unattended with danger. This is done either by cutting off the tumors with a pair of scissors or a knife, or by applying a tight ligature round their base, so as to cause them to slough away.

Heremus, (Anc. Geog.) The name applied to that part of the Balkan chain which separates Thrace from Thessaly. According to mythology, Heemus, son of Boreas and Orithyla, having sapired to divine honors, was changed into this mountain.

changed into this mountain.

changed into this mountain.

Here'siarch, n. [Gr. hairestarches,
from hairests, heresy, and arches, a chief.] (Eccl. Hist.)

The founder of an heretical sect.

The founder of an heretical sect.

Hiser'mesite. n. (Mn.) A beautiful, white, transparent, flexible unineral from the Banat, Austria. Comp. Arsenic acid 40th, magnesia 21th, water 20th. Sp. gr. 2:474.

Haff. [Ger., bay or harbor.] An extensive bay or gulf of Pomerania, Prussia, 10 m. N. of Stettin, at the mouth of the Oder, separated from the Baltic by a strip of land.

land.

Haffle, v.n. [Ger. haften, to stick, cling, or falter.] To speak indistinctly; to hesitate; to falter: as, he haftes his words.— To prevaricate; as, the witness hafted.

Haffle, Morammen, (surnamed Suzus Kodin, "son of religion,") the most popular of the Persian poets, was s. at Shiras, and flourished in the 14th cent. Like Anacreon, his verse is dedicated to love and wine. The complete collection of his odes is entitled the Diran: they have been the subject of numerous commentaries, and plete collection of his odes is entitled the Diran: they have been the subject of numerous commentaries, and it is a standing controversy whether they are to be interpreted literally or allegorically. Some of the odes have been translated into English by Sir. W. Jones and others, and the whole collection has been translated into German. He b. about 1389; and his countrymen erected a monument to his memory, which was destroyed by an earthquake in 1825.

earthquake in 1825.

Hafinarflord, (haf-nar-fe-örd'.) a scaport-town in Iceland, on a small bay of its own name, S.S.E. of Reikiavik.

Haft, n. [A. S. haft, from haflen, to seize or take; Ger.
haft, a handle.] That part of an instrument or vessel
which is taken in the hand; as, the haft of a knife.

-v. a. To formish with a haft, hilt, or handle.

Hag, n. [A. S. hages; Ger. heze. In Saxon, from egesian,
to terrify.] A witch; a fury; a fiend; a she-dovil.—A
sorceross or enchantress.—A morass or quagmire.—A
term of reproach, often applied to an ugly old woman;
a crone.

(Zoll.) See LAMPREY.

(Zoll.) See LAMPREY.

To corment; to harass with vain terrors; to tire.

To corment; to harass with vain terrors; to tire.

Ta'gaman's, or Hagerman's Mills, in New York, a post-vill. of Montgomery co., abt. 36 m. W.N. W. of Albany.

Hager. Heb., stranger, slender, flight.] (Script.) An Egyptian bondmaid in the household of Sarah (Gen. Xvi. 1-3), who, being barren, gave her to Abraham for a secondary wife, that by her, as a substitute, she might have children, in accordance with the customs of the East in that age. H. bore Abraham as on, whom he called Ishmael (God has heard), and in whom he for a time saw the future father of the progeny promised him. But sixteen years later, and when Abraham was (we are told) a teen years later, and when Abraham was (we are told) a hundred years old, Sarah herself bore Isane; and we find it significantly repeated nine times in soven verses (Gen. xxi. 2-9) that Abraham and Sarah were his parents xxi. 2-9) that Abraham and Sarah were his parents—in repudiation, according to rabbinical authorities, of certain rumors about Isaac's illegitimacy, spread by Hagar. At last, the domestic contentions which naturally arose led Abraham, though reluctantly, to cast out H., together with Ishmael. How the two fugitives lost their way in the desert of Beersheba; how the water in the bottle being spent, the broken-hearted mother sat herself at a distance from her child, in order that she might better his dust he how her weaping and the loud voice. self at a distance from her child, in order that she might not see his death; how her weeping and the loud voice of the boy were answered by an angel, who pointed out a well (Temzem, in the enclosure of Mecca),—all this forms one of the most touching and well-known narratives of the Bible. In the New Testament, H. is referred to allegorically as Mount Sinal, or "the Jerusalem which now is," (Gal. Iv. 22.) Her name is much honored among the Arabs, who claim to be her descendants.

Hagar, or Ha'ora, in Michigun, a post-township of Berrien co. Pop. (1897) about 626.

Magenbach, Karl Rudler, a German theological writer, R. at Basle, 1801. After studying at Bonn, Berlin, and Basle, he became professor of theology at the latter university. H. is a voluminous author, his chief works being A Onicle to Christian Instruction; A Compendium of the History of Doctrines, and the Spirit and History of the Enformation. D. 1874.

Hagerstown, in Indiana, a post-town of Wayne co. Hagerstown, in Indiana, a post-town of Wayne co. Hagerstown, in Maryland, an important manufacturing town, cap. of Washington co., 22 miles N.W. of Frederick, on Antietam creek, the Cunib. Valley and 3 other railroads; is an active trade center, and has extensive and varied manuf. industries. Pop. (1897) about 12,500.

Ha'gerstown, now called New Haggerstown, in Obio.

Has gerstown, now called New Haddestown, in Caso, a post-village of Carroll co.

Hag fish, a. (Zoll.) Same as Has, q. v.

Hag gadin, a.; pl. Haddadorn. [Heb., an account or narrative] A story, legend, or narrative added by the ancient Rabbins to the text of Scripture, to render the account of the control .. an account or

ancient Rabbins to the text of Scripture, to render the passage or text more clear and striking.—Any Jewish legend connected with the Scriptures.

Haggasi. (Script.) One of the prophetic books of the Old Testament, whose author. Haggai, flourished during the reign of Darius Hystaspes, about five hundred years before Christ. He is classed among what are usually termed the minor prophets. His book comprises four discourses, of which, in all probability, we have only an epitome, and which are all concerning the same subject,—the building of the Temple. In the first he reproves the indifference of the people respecting the building of the Temple, assigning that as the reason why they are punished with great drought and unproductive harvests; and exhorts them to undertake the work, encouraging them with the promise of divine aid (i). The second brief discourse consists of a consolatory promise, that the glory of the second temple shall surpass that of the first (ii. 1-9). The third consures the outward and legal righteounces prevailing among surpass that of the first (ii. 1-9). The third censures the outward and legal righteousness prevailing among the people, by means of which they were deprived of the divine blessing (ii. 10-19). The fourth contains a promise of the future glorification awaiting the royal offspring of David and Zerubbabel, after the downfail of all earthly thrones. The style of Haggai in reproving is indeed vehement, but by no means poetic. In general, it is flat and destitute of power, though there are passages, where he treats of future events, in which he becomes somewhat elevated. There is also a marked poverty of language, as may be observed in the frequent repetition of the same expressions.

Haggard, a. [Fr. hagard, wild, ferocious; Ger. hager, thin, lean, from hege, hair, a nancient poetical name for death.] Spare; harsh; rugged in features; as, a haggard countenance.—Having eyessunk in their sockets; ugly.

ugly.

"His hands and haggard eyes to heaven he cast."—Drydon
Wild; untamed; intractable. "The haggard hawk.

Any thing wild or irreclaimable. — An ugly old

—n. Any thing wild or irreclaimable.—An ugly old woman; a hag.

\*\*Hag'gardly, adv.\*\* In a haggard or ugly manner; with deformity.

\*\*Hag'gardly, a.\*\* Lean; ugly; like a hag.

\*\*Hag'gardly, a.\*\* Lean

"Auld Scotland wants nas skinking ware . . Gi'e her a haggis!" — Burns.

Hag'gish, a. Of the nature of a hag; deformed.

"Haggish age steals on."—Shaks.

Haggishly, adr. In the manner of a hag.

Haggie, v. a. [A corruption of hackle, q. v.] To noteh or cut in an unskilful manner; to make rough

by cutting; to mangle.
v. n. To be tedious in making a barguin; to be long in

fixing a price; to hesitate; to cavil. [az'zler. n. One who cavils, hesitates, or makes diffi-

fixing a price; to hesitate; to cavil.

Hag gler, n. One who cavils, hesitates, or makes difficulty in bargaining.

Hag gling, p. a. Hacking or mangling.—Cavilling and hesitating in coming to terms on a bargain.

—n. Act of hesitating and making difficulties in bargaining.

Hagiarchy, n. [Gr. hagiarchē. from hagios, sacred, and archē. government.] Government by men in holy orders; government of the priestly order.

Hagioc racy, n. [Gr. hagiokrateia, from hagios, holy, and kratein, to rule.] Government by a priesthood; hierarchy.

rarchy.

rarchy. **Hagiog'rapha**, n. pl. [Gr. hagiographa, i. e. bibisa, the books written by inspiration.] (Theol.) A term sometimes applied to certain books of the Old Testament. The Jews divided the books of the Old Testament.

ment into—1. the Law, comprehending the 2ve books of Moses; 2 the Prophets; and 3 the writings turned by them Cetabin, and by the Greeks Hagesgraphs; whence the word has been introduced into the English whence the word has been introduced into the English language. The last were held to be inspired in a lower degree than the others; but they did not always agree as to what books belonged to the second, and what to the third class. With us, the Hagiographa comprise the books of Paslms, Proverbs, Job, Song of Solomon, Enth, Lamentations, Ecclesiastes, Esther, Daniel, Ezra, Nebmish, and the Chronicles.

Hagiog'raphal, a. Belonging to the hagiographa, or sacred writings.

Hagiog'rapheer, m. One of the inspired or sacred writers.

Writers.

Hagieg'raphy, n. Same as Hagiographa, q. v.

Hagiel'egist, n. [Gr. hagios, holy, and logistes, one
who gives an account.] One who treats, writes, or decourses about the sacred Scriptures.—One who writes
of the lives of the saints, or the legends connected with

Hagiol'ogy, s. A history of the lives of the eminent persons mentioned in Scripture.—An account of the persons mentioned lives of the saints.

persons mentioned in Scripture. — An account of the lives of the saints.

Hagiecope, m. (Arch.) [Gr. hagies, holy, and a pein, to view.] An opening made between the extrensame of the transept, in a cruciform church, and the high altar, to enable worshippers, so placed, to have a view of the officiating priest.

Hagiey, in Illinois, a former post-office of Cass co.

Hagi-ridden, a. Afflicted with nightmara.

Hagi-stapper, m. [Bat.] See Viniascum.

Hag's'-tooth, Hake's-tooth, m. (Naul.) A part of a matting, and the like, which is interwoven with the rest in a manner to break its uniformity.

Hague, (The.) (haig.) [Du. Gravenhagg, "the count meadow; "Fr. La Hage.] A town of the Netherlands, of which it is the cap, and usual residence of the ling and court, is situated in the prov. of S. Holland, 10 m. S.W. of Leyden, and 13 N.W. of Rotterdam. The Hague is an open town, being surrounded only by a m-air crossed by drawbridges. It presents all the characteristic features of a Dutch town; its houses and pavements are of brick, and several of its streets are intersected with canals, and bordered with rows of trees; its general appearance, however, is much superior to that of the commercial cities of Holland. The N. end of the town is the fashionable quarter, and in it is the Vyverbard. town is the fashionable quarter, and in it is the town is the fashionable quarter, and in it is the Vyverberg, a fine open space, ornamented with a lake, and wooded island in the centre. Around and adjacent to this square are all the chief public edifices. These comprise the National Museum, containing a gallery of superb pictures; the Royal Museum, filled with rare curiosities; the Royal Palace; the palace of the Prince of Orange; and the Binnenhof, occupied by various government officers, and the chambers in which the States-General of Holland meet. This building served for the prison of Grotius and Barneveldt, the latter of whom was executed in front of it in 1618. The Hague for the prison of Grotius and Barneveldt, the latter of whom was executed in front of it in 1618. The Hague has also numerous churches, charitable, literary, ecceptific, and educational institutions, a royal library with 100,000 vols., a theatre, and many noble private picturegalleries. Near the town is the Bosch, a finely wooded park belonging to the king of Holland, containing within its precincts the Hays in den Bosch ("House in the wood"), the summer palace of the royal family. The Hague has never been a place of much commercial importance,—printing, the manufacture of porcelain, and cannon-founding being the chief industries.—It became the residence of the feudal lords of Holland in 1250, from which period it continued the seat of government une reasonne or the results lords of Holland in 12:5, from which period it continued the seat of government till 1806; it again assumed the rank of a capital on the restoration of the House of Orange. The astronomer Huygens, the naturalist Ruysch, and King William III. of England were born here. Pop. with suburbs (1867) estimated at 174.500.

Hague (hdg), in Florida, a post-office of Alachua co. Hague, in New York, a post-office of Alachua co. Hague, in New York, a post-office of Traill co. Hague, in North Dakota, a post-office of Traill co. Hague, in North Dakota, a post-office of Traill co. Hague, in Virginia, a post-village of Westmoreland co. Hague, in Virginia, a post-village of Westmoreland co. Haguemau (hdg-no), a fortified town of Governany, in Alace, on the Moder, 16 miles N. of Straeburg. Mansy. Tobacco, madder, earthenware, woollen and cotton fabrics, and soap; it has also breweries and foundries for metal. Pop. 12.050.

Hah, (haw,) interj. An exclamation expressing surprise or sudden effort; ha!

She stamps, and then cries hea! at every thrust." "She stamps, and then cries hah at every thrust."—Drysless.

Ha-has', or HAW-HAW, s. [By redupl., from here, a hedge.] An enclosure by a ditch, bank, or fence, so arranged that one does not perceive it until almost upon it. By means of these the steeple-chasers in Great Britain frequently come to grief. (See, also, HAW-BAW.)

Hah'memann, Samuk, the founder of homosopathy. B. of poor parents at Meissen, in Saxony, 1755, and received his diploma as doctor in physic at Heidelberr. in 1781. The same year he was appointed district physician at Gomehn, near Magdeburg, and continued his studies in chemistry and mineralogy with all the arder of an enthusiast. In 1784 he removed to Dresden, and soon afterwards abandoned the practice of physic in disstudies in chemistry and minerarogy and of an enthusiast. In 1784 he removed to Dresden, and soon afterwards abandoned the practice of physic is disgust, and confined himself to his private researches in chemistry and literature. These studies began to acquire a fixed direction in 1790, and in 1796 he commenced the record of their results in the journal of his friend, Hufeland, in an article entitled Euroy on a New Principle, dc. In 1805 he published his Medicine of Experience, and in—1810 his Organom of Rational Medicine, in which the new doctrine was reduced to a Digitized by

2 12

eystem, and methodically illustrated. In a second edition, published 1819, the title of his work was abbreviated, and became the Organon of Medicine. A third edition appeared in 1824, and was translated into English nine years afterwards. It was followed by a fourth edition in 1829, and a fifth in 1833 (translated by Dr. Dudgeon), each of which embodied fresh results, and enlarged the field which this indefatigable experimentallst had undertaken to cultivate. While this and the other works of the author mentioned below were making their way silently over Europe, H. himself was experiencing the usual fate of the world's beuefactors. In 1813 he had removed from Dresden to Leipsic, where he was persecuted by the apothecaries as an empiric, and this had risen to such a height in 1×20, that he was glad to avail himself of the protection offered to him by the Duke of Anhalt-Cüthen. In the same year he published his Pure Medicine, in 6 volumes 8vo., and in 1820 his Theory of Chronic Maladics. and the Proper Medicines for them, in 4 volumes, which were enlarged to 6 volume in a second edition, 1840. In the meantime, his domestic circumstances were changed for the better by his marriage in 1835 with a French lady, in whose company he removed from Cöthen to Paris, at the age of 80. H. remained in Paris till his death in 1843, and had the actifaction to hear that homeopathy was about to have a chair at the university of Vienna, and that hospitals were proposed in London, in Berlin, and in many cities of Austria. The principles of his therapeutic reform—for such it undoubtedly is — may be described as a recognition of derangements in the vital or spiritual force of the body, whether occasioned or not by material influences, as the primary causes of disease; the cure of which is by the reaction of the vital force against the remedies are found both in theory and practice to be the assimulates of the disease, and such remedies are found both in theory, and practice to be the assimulates of the disease, and yet, like it, they combat with it, and being more subtile than the disease, and yet, like it, they engage the vital force in a quicker and more decisive conflict, and then gradually yielding before it, as their own virtue expires, the vital force is liberated, and, as a matter of course, resumes its normal action. This explanation, however, is only half the truth, for it is well known that fluids in effervescence are reduced to rest by the satisfaction of what may be called the hunger of one body for another, and something of this kind may take place when the assimulate is introduced to the disease. Be the explanation what it may, the discovery of the facts by years of patient and is introduced to the disease. Be the explanation what it may, the discovery of the facts by years of patient and often painful experience, is the title of H. to the gratitude of society. He proved the virtue of an immense number of assimulates by teeting their effects on himself and friends, and displayed equal art in the method of their refinement. His Organo of Medicine not only raises the art of healing to the rank of an exact science, but renders it an elevant and unit searched attricts while raises the art of healing to the rank of an exact science, but renders it an elegant and philosophical study; while the facilities of its practical application have been carried to such perfection, especially by his followers in this country, that many mothers of families have become expert homeopathic physicians, and rarely require the aid of a practitioner. Besides the works mentioned. H. is the author of some 200 treatises on medical and physical science. For his likeness, see Hongoparin, H. aid Handlar gertie, n. (Min.) A white, glassy. transparent arsenate of lime. Sp. gr. 2-848. Comp. Arsenic. acid 53:1, lime 28:3, water 13:6. But one specimen has been observed. The name has also been applied to a double sulphide of iron and antimony, called Berthierite. Hasia, (Adv.) n. [Ar. Adke, to weave.] A large piece of cloth formed like a poncho, or serape, worn by the Arabs of better condition over the tunic, and in bad weather covered by the burnous.

covered by the burnous

of better condution over the tunic, and in bad weather covered by the burnous.

Haal, s. [A. S. hagel.] (Metsorol.) The fall of serial moisture in the form of ice. Hail occurs in two unlike forms, of different origin, which are now distinguished as hard, or true hall, and soft hail. The latter, often also known as sleet, denotes the fine, light grains that frequently fall in winter, rarely in summer, and seem an accompaniment of anow. Just how soft hail is formed is not yet known, and the mode of formation of hard hail is still a matter of theory, the easy explanation that it is frozen rain being insufficient. True hail occurs in hard, compact, irregular masses of ice, either clear or opaque, both kinds often occurring in alternate layers in a hail-stone. Hail-stones in the higher latitudes occur almost solely in the warmer months, and seem due to peculiar atmospheric conditions. They are most destructive when accompanying tornadoes or great thunderstorms, the hail-stones becoming occasionally larger than hene' eggs, and occasioning great devastathunderstorms, the hail-stones becoming occasionally larger than hens' eggs, and occasioning great devastation. Occasionally they are of great size and irregular shape, becoming ice masses of 2 or 3 inches diameter and several pounds weight, and falling with a force sufficient to kill animals.—Theory. The theory of hail formation entertained by many meteorologists is, that atmospheric vapor, carried up by vertical motion of the air, is condensed into rain, and at a greater height into snow. The rain-drops, still carried upward, and held suspended for a time, are frozen into clear ice. They may fall in this condition, or may be caught during their fall by the vortex and again carried upward, gaining a new

cating of ice, which is covered with frozen snow in the form of granular ice at a higher elevation. By a succession of such movements alternate layers of clear and granular ice are formed, the number of layers indicating the number of ascents and descents. These stones may be frozen together during their fall into the large, irregular masses often seen. Hail-storms are limited in area and brief in duration. They are usually preceded by a sudden and considerable fall of the barometer, attended by wind, and followed by heavy rain.

[ail. v. n. To pour down roundish masses of ice or frozen vanor.

frozen vapor.

w. a. To pour down in the manner of hail.

Hall, mlerj. [A. S. hælu, hæl; Ger. heil; possibly akin to Gr. holos, whole.] A salutation, meaning be well; be in health; health to you.

"Rail fellow, well met."—Swift.

n. A salutation, or wish of health; as, a kindly hail. et.a. To call to, especially to a person at some distance; to sarrest noe's attention; to greet; to salute; to welcome. "The man that haile you Tom or Jack."—Comper.

To call; to designate. And such a son, that all men hailed me happy."

"And such a son, that all men hatted me happy."—Milton.
—v.i. To report one's self at home; as, where do you hail from?—much used at sea, when vessels meet;—also used ashoreamong the members of different secret societies as indicating the query, To which lodge do you belong!

Hailes'borough, in Now Tork, a post-village of St.
Lawrence co., on the Oswegatchie River, about 25 m. S. of Ogdensburg.

Hail-shot, n. Small shot, which scatter, when discharged from a gun, like hall.

Hail-stone, n. A single mass of hail; a pellet of frozen snow.

Hail'y, a. Consisting of hail; full of hail; as, haily

Hall'y, a. Consisting of hall; full of hall; as, hally showers.

Halmatu'ria, n. [Gr. haima, blood, and ouron, urine.]
(Med.) A discharge of blood with the urine, owing generally to a discased state of the kidneys or bladder. It is usually a symptom of some other discase, upon the nature of which its treatment, in general, depends.

Hal'man, an island of China, in the prov. of Kwangtung, E. of the Gulf of Touquin, separated from the mainland of China by a channel of but 10 m in width; Lat. 18° 10' to 20° N. Lon. 108° 25' to 111° E. Arca, 12,000 sq. m. The E. coast is steep and rocky; the N.W. coast is unapproachable because of sand-banks; but the S. coast is indented with several commodious and safe harbors. The interior of the island is mountainous and barren, but the low lands near the sea are fertile and well cultivated. Prod. Sugar, pearls, coral, wax, gold, and silver. The metropolis of the whole island is Kiang-choo-foo, the port of which is open to European shipping from 1858. Though the Chinese have possessed this island since 2. c. 108, yet there are, in the interior, some wild and nitherto unsubdued tribes.

in the interior, some wild and hitherto unsubdued tribes.

Hainault, (hay'no.) [Ger. Hennegau.] A frontier prov. of Belgium, bounded E. by Namur, R. by Brabant, E. and W. by Flanders, and on the S.W. by France. Area, 1,421 sq. m. Prod. Wheat, flax; excellent breeds of horses, horned cattle, and sheep are also reared. Extensive cosl-fields, iron mines, marble and limestone quarries. Manuf. Linen, porcelain, and pens. Principal Rivers. Haine (whence the name), Sambre, Meuse, and Scheldt. Chief towns. Mons (the cap.), Tournsy, Ath, Boignies, Charleroi, and Thuin. 170p. 911,841.— H. was governed by a regular succession of counts from the time of Regnier I., who began to reign about 860. In 1436 it passed into the hands of Philip the Good, Duko of Burgundy, and by the treaties of the Pyrences, Nov. 7, 1659, and of Nimeguen, Sept. 17, 1678, part was coded to France, forming the prov. of French Ilainault. In 1814 it was allotted to the Low Countries, and in 1830 was incorporated with Belgium.

Hain'burg, a town of Austria, on the right bank of the Danube, 27 m. E.S.E. of Vienna, and 2 m. from the Hungarian frontier. Manuf. Tobscco. It is mentioned in the Nibelingen Lied, being at the date of that song a border fortrees of the Huns. Pop. 5, 150.

Haines'burg, in New Jersy, a post-village of Warren

county.

Haines'burg, in New Jersey, a post-village of Warren co., about 12 m. N. of Belvidere.

Haines Creek, in New Jersey, enters Rancocas Creek

scope exhibits a centre of light pithy substance, invested with a horny sheath. This outer portion of the hair appears made up of

ring-like scales that overlap each other like the shingles of a house. The hair is kept moist and smooth by an oil secreted by glands just beneath the epidermis. In hairs which act as tactile organs in some of the animals, as the whiskers of the cat, the hair-bulb contains a true papilla furnished with nerves. H. is elas-tic, and will stretch nearly one-third of its original length, and sustain a weight of 6 ounces without breaking. When dry and warm, it is easily made electrieasily made electri-cal, and it readily attracts moisture from the atmos-phere. It elongates by moisture, and one form of hygrom-eter indicates the condition of the air in that represt by ems to depend on

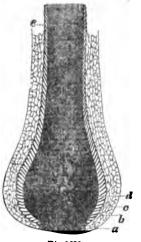


Fig. 1226.
MAGNIFIED SECTION OF BULB OF A
SMALL BLACK HUMAN HAIR. condition of the air in that respect by the elongations of a contractions of a human hair. The color of the hair seems to depend on the color of the hair to color of the hair to color of the hair to color of the c

human hair. The color of the hair seems to depend on the presence of a peculiar oil, which is of a blackish-green color in dark H., blood-red in red H., and nearly coloriess in white H. The H. becomes gray in advanced life from a deficient secretion of the coloring-matter. There seem to be well-attested cases on record in which the hair has become gray or white within 24 hours from the effects of any strong mental excitement. It is said that a Sepoy of the Bengal army, only 24 years of age, on being brought before the British officers for examination, was almost stupefied with fear, and so great was the shock that within an hour his jet-black H. changed to gray. The hair grows faster by day than by night, and in summer than winter; and it has been known to continue to grow after death. The quantity of H. that grows upon the human body varies among the different races. The Indian races of America, and the Mongols and similar nations in northern Asia, have scanty hair and beards, while among other nations the growth of both is heavy, and there are individual instances owhere the hair grows down the back, and sometimes covern nearly the whole body. The hair of the head serves to protect the brain from extremes of heat and cold, and partially to shield it from the effects of blows. The beard protects the throat, and bronchial affections are far less prevalent where it is worn than where the throat is deprived of its natural covering. The moustache serves as a natural respirator, and travellers on dusty roads, and workmen in dusty trades, as millers, masons, steel and iron grinders, &c., are soon made aware of the presence of these may account for the unpleasant odor entitted while burning. It dissolves in caustic potash with the liberation of ammonia, and on the Addition of an acid, deposite a kind of protein. See Hair-Drg, Hair-Dressine.

(Bot.) The hairs in plants are very different from the H. of animals, although there is sometimes considerable.

BRISKING.

(Bot.) The hairs in plants are very different from the H. of animals, although there is sometimes a considerable general resemblance, and the same purpose of protection from cold and from various atmospheric influences seems also to be sometimes served by them. They are produced by no special organ analogous to the bulbs from which the hairs of animals grow, but are composed of cellular tissue, arise from the epidermis, and are covered with extensions of the cuticle. Some hairs consist of a single elongated cell; some of several cells placed end to end. The gradations are quite indefinite between the most colongated hairs and the mere warts or ruggosities which often appear on the surface of plants. In like manner, hairs pass into brittles (sette) and prickles (caules), which are merely stronger and harder hairs; but spines or thorns are totally different, arising from the wood of the stem or branch. Hairs are very often connected with Co., about 12 m. N. of Belvidere.

Haines Creek, in New Jersey, enters Rancocas Creek above Lumberton.

Haines 'port, in New Jersey, a post-village of Burlington. Co., about 7 m. 8. of Burlington.

Haines' ville, in New Jersey, a post-village of Lake co., 15 m. 8. W. of Wankegan. Also called Frattman.

Haines' ville, in New Jersey, a post-village of Lake co., 16 m. 8. W. of Wankegan. Also called Frattman.

Haines' ville, in New Jersey, a post-village of Lake co., 16 m. 8. W. of Wankegan. Also called Frattman.

Haines' ville, in New Jersey, a post-village of Sussex co., about 40 m. 8. E. of 8t. Joseph.

Haines' ville, in New Jersey, a post-village of Sussex co., about 15 m. N. by W. of Newton.

Haines' ville, in New Jersey, a post-village of Sussex co., about 16 m. N. by W. of Newton.

Haines' ville, in New Jersey, a post-village of Sussex co., about 40 m. 8. E. of 8t. Joseph.

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Haines' ville, in New Jersey, a post-village of Sussex co., about 40 m. 8. E. of 8t. Joseph.

Ha

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Hair'-dressing, Head'-dressing, n. (Catame.)
The adornment of the hair, and the forming of it into fantastic shapes, has been practised by women in all ages, and in no direction have the caprices of fashion been more strikingly displayed than in disposing this natural covering of the head. The early Hebrew women gloried in their luxuriant tresses, plaiting them, and adorning their heads with ornaments of gold, silver, and precious stones. The Greeks allowed their hair to grow to a great length, while the Egyptians often removed it as an incumbrance. There is no "fashion" connected with the hair, in vogue at the present time, which is new. It is not a modern 'idea to resort to borrowed or with the hair, in vogue at the present time, which is new. It is not a modern idea to resort to berrowed or "false" hair to satisfy the caprices of fashion, neither is it to dye the hair, or dress it with unguents and oily substances. The Greek, Egyptian, Carthaginian, and Roman ladies, more than twenty-five centuries ago, made use of the most extravagant quantities of borrowed hair, and they wound it into large protuberances upon the back of their heads, and to keep it in place used "hair-pins" of precisely the form as in use at the present



Fig. 1227. - HAIR-DRESSES, (13TH CENTURY.)

time. The Roman women of the time of Augustus were especially pleased when they could outdo their rivals in piling upon their heads the highest tower of borrowed locks. They also arranged rows of curls formally around the sides of the head, and often the very fashionable danisels would have pendent curls in addition. An extensive commerce was carried on in hair, and after the conquest of Gaul, blonde hair, such as was grown upon the heads of German girls, became fashionable at Rome, and many a poor child of the forest, upon the banks of the Rhine, parted with her locks to adorn the wives and daughters of the prond conquerors. The great Cæsar indeed, in a most cruel manuer, cut off the hair of the vanquished Gauls and sent it to the Roman market for sale, and the cropped head was regurded in the conquered provinces as a badge of slavery. To such a pitch of absurd extravagauce did the Roman ladies at one time carry the business of adorning the hair, that upon the introduction of Christianity, in the first and second centuries, the apostles and fathers of the Church launched severe invectives against the vanity and frivolity of the practice. The Saxons and the Franks wore The Roman women of the time of Augustus wer volity of the practice. The Saxons and the Franks wore



Fig. 1228. HEAD-DRESSES, AND PASHION OF WEARING PATCHES, (From a French drawing, 1739.)

long hair. The Normans, too, adopted long hair as a fashion; and from them, and the more modern French, the courtiers and cavaliers of the 17th century adopted the practice of wearing those flowing "love-locks"

which excited the ire of the Puritans. It was, however, which excited the ire of the Puritans. It was, however, in the management of ladies' lair, that the art of the professional hair-dresser was in those times mainly exercised. In the 18th century, the dressing of hair, male and female, rose to a great pitch of extravagance and folly. The hair of a lady of fashion was frizzed up in convolutions and curis, decorated with ribbons, jewels, and feathers, and filled with ponatum and powder to a degree perfectly monstrous. (Fig. 1229.) As women of less exalted rank slavishly attempted to follow these absurdities, the business

to follow these ab-surdities, the business of dressing hair was extensively followed. The cost of a full dressing being, how-ever, too high to be lightly incurred, often one dressing was made to suffice for a week or fortnight, week or fortnight, Exaggerated methcase of dressing the hair continued into the 19th century, assuming the protuberant form known as the scaterfall and other unsightly forms; but these absurd freaks of fashion have been succeeded by simpler and more graceful methods of dressing the hair. Hair-dressing in such unbecoming forms is now largely confined to savage or barbar-ous tribes, some of the Africans and the Pacific Islanders be-ing the chief offenders



(From Stewart's Whole Art of Hair-dressing).

ing the chief offenders

Hair'-dyes and Wash'es, n. In ancient times, people grew old as they do now, and the frosts of age blanched the raven locks of youth; and there were also those with hair glowing with red, or some other tint not deemed desirable. Hence it was that hairdyes came into use, and a brisk demand for substances capable of changing the color of the hair has been maintained for thirty centuries. The substances employed before the science of chemistry was understood, were usually quite ineffective in their influence. They were, for the most part, fugitive vegetable stains, which water would easily remove. There was, however, a metallic mixture made in Exput, which possessed ou allities of the same uor unry centuries. The substances employed before the science of chemistry was understood, were usually quite ineffective in their influence. They were, for the most part, fugitive vegetable stains, which water would easily remove. There was, however, a metallic mixture made in Egypt, which possessed qualities of the highest excellence. If the statements of some writers can be relied upon, this mixture was far superior to any form of hair-dye known to modern chemists. There is at the present time a dye used by the Armenians, in the East, which may be, in many respects, like the ancient dye. It is a metallic substance resembling dross. This is powdered, and mixed with fine nut-galls and moistened. A little of the paste is taken in the hand and rubbed into the hair or beard, and in a few days it becomes beautifully black. Those who have visited the Armenian convents in Turkey cannot but have admired the fine black beards of the monks, even those of advanced age. This dye is undoubtedly composed of a mixture of iron and copper, which metals, in conjunction with the gallic acid formed from the galls, produces a dye of superior excellence. A hair-dye which came widely into use after the Mexican War, and was known as "General Twiggs" Hair Dye," from being used by the officer of that name, was a poisonous compound, being made largely of the acetate of lead. It became very popular, however, and formed the basis of numerous Bestoratices, Embracetions, Washes, Dressung, &c., sold for use on the hair. The formula and method of preparing it is simple. Take of finely powdered acetate of lead, 120 grains; los sulphur. The mixture must be well shaken before using. The lead and sulphur do not all dissolve in the rose-water, but fall to the bottom of the vessel as a precipitate. This preparation will gradually dye the hair a black or dark-brown color if a small quantity be rubbed into it once or twice a day. It is frequent use is, however, attended with great danger, as numerous instances of lead-poisoning have resulted f

soaking the hair with a solution of sulphide of potassium, the darkness of the color depending on the strength of this solution; when partly dry, the hair is saturated with a solution of nitrate of silver. A very permanent dye is thus produced, needing only to be renewed as the growth of new hair becomes conspicuous. The frequent use of oids, bear's grease, serchains, possades, katerula, rosemary souskes, kc., upon the hair, is a practice not to be commended. All of these oils and greasy pomades are manufactured from land-oil and simple land or other similar oily substances. There are manufactors are manufactured from land-oil and simple land or other similar oily substances. There are many persons whose hair is naturally dry and crisp, and in most families there is a want of some innocent and agreeable wash or dressing which may be used most agreeable wash or dressing which may be used most agreeable, cleanly, and safe is contractly and judiciously. The mixture which may be regarded as the most agreeable, cleanly, and safe is contractly of cologne spirit and pure castor-oil. The following is a good formula:

Pure, fresh castor-oil, 2 oz.

Cologne spirit (95 per cent.), 16 oz.

Pure, fresh castor oil, 2 oz.
Cologne spirit (80 per cent), 16 oz.
The oil is freely dissolved in the spirit, and the solution is clear and beautiful. It may be perfumed in any way to suit the fancy of the purchaser. The oil of the castor-bean has for many years been employed to dress the hair, both among the savage and civilized nations, and it possesses properties which admirably adapt it to this use. It does not rapidly dry, and no gunnny, offensive residuum remains after taking on the chemical changes which occur in all oils upon exposure to light and air. It is best diffused by the agency of strong spirit is which it dissolves. The alcohol or spirit rapidly evaporates, and does not in the slightest degree injure the texture of the hair. This preparation, for dressing the hair of children or ladies, will meet nearly or quite all requirements.

texture of the hair. Into preparation, for dreaming the hair of children or ladies, will meet nearly or quite all requirements.

Hair'eglove, m. A give made of horse-hair, used while bathing to excite the action of the skin.

Hair'inees, m. The state of being covered with, or abounding in hair.

Hair'laee, m. [From hair and lace.] The fillet with which women used to the up their hair.

"If she forguts to warm her hair lace.

Bel gete a cold as sure as death."—Swift.

Hair'lees, a. Destitute of hair: as, a hairless scalp.

Hair'line, m. A very slender line, made of hair.

Hair'-peneil, m. A small brush used by artists in painting, often called a camels'-hair brush. They are usually made from the finest hairs of the marten, badger, &c. When small, they are mounted in quills: but when larger, in tinned tubes.

Hair'-powder, m. A fine powder composed of flour, &c.; nuch used in the 18th century for sprinkling upon the hair of the head, or upon the wig.

Hair'-salt, m. [Ger. haar-sals.] (Min.) A form of Ersourre, q. v.

the hair of the head, or upon the wig.

Hair'salt, n. [Ger. haar-sals.] (Min.) A form of Ersonter, q. v.

Hair'splitting, a. Making excessively minute and unimportant distinctions in argument.

Hair'spring, n. (Horology.) The fine wire in a watch, which gives motion to the balance-wheel.

Hair'stroke, n. The upward, lighter, and more delicate stroke in penmanship, made for connecting together different letters, or the parts of the same letter.

Hair'strigger, n. (Gun.) A trigger connected with the tumbler of a gun-lock by a contrivance called a hair, by means of which, on the very slightest pressure, the five-arm is discharged.—Also applied to a pistol made upon this principle.

Hair'-worms, n. (Zull.) See Gordius.

Hair'-worms, n. (Zull.) See Gordius.

Hair'-ya. Overgrown with hair; covered with hair.—Consisting of hair; resembling hair; of the nature of hair; as, a hairy mantle.

Haitiam, (hd'shan,) a. and n. Same as Hattian, q. v.

Hake, n. [O. Eng. haak; Ger. hecki, a pike.] (Zull.)

See Marycous.

Pr. n. To go about idly; to mope; also, to sneak, or loaf.

Hakim, n. [Arab., a physician.] A title given among
the Arabs to physiciana, and also to other persons as a

the Arabe to pulsicions, and title of respect.

Hal, a town of Belgium, prov. S. Brabant, 10 m. S.S.W. of Brussels. Manuf. Clotha and linen goods. Pop. 7,100.

Halas, a town of llungary, 75 m. S. of Pesth, on Lake

Hallasto; pop. 14,300.

Halberd, n. [Fr. hallebarde; Ger. hellebarde, from hell, clear, bright, and barde, a broad-axe.] (Mil.) An offensive weapon consisting of a shaft about five feet long, made of onk, having a steel head formed somewhat like a creecent. It was much used formerly, but is seldom or ever now seen, except in some Scottish burghs, where it is employed by the civil officers who attend the magistrates in processions, and on other public occasions.

Halberdier, (hal'berdeer.) n.

[Fr. hallebaruier.] One armed with a halberd.

a halberd.

a natuerd.

Hallberstadt, a city of Prussia
in Saxony, on the Holzemme, 32
m. S.W. of Magdeburg. Manuf.
Cloth, wool, tobacco, leather gloves,
hats. candles, and brandy. P.p.
(1897) 38,765.

Hal'bert, in Indiana, a township of Martin co.
Hal'cott, in New York, a town-

ship of Greene co.

Hal'cottsville, in New York, a Fig. 1230.—RALBED
post-village of Delaware co., abt. 70 m. S.W. of Albany

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Hal'cyon, n. [Fr. and Lat., from Gr. hals, the sea, and known, known, to search.] (Zoöl.) See Alcado.

—a. Calm; undisturbed; peaceful; quiet; as, halcyon ease. Hal'cyone-days, n. pl. [Lat. disc halcyones, or halcyonesis] (Antiq.) A term applied by the ancients to the 7 days which immediately precede and follow the shortest day, from the circumstance that the balcyon, or king-fisher selected that period for incubation, and they believed that on that account the weather was always believed that, on that account, the weather was always remarkably quiet about that time. Hence the phrase "halcyon-days" has passed into a proverb, as denoting

"halcyon-days" has passed into a proverb, as denoting times of peace and tranquility.

Haicyon ides, n. pl. (2021). See ALGEDINIDE.

Hai'cyon ides, n. pl. (2021). See ALGEDINIDE.

Hai'cyonoid, a. Same as ALGYONGID, q. v.

Hai'dame, in Illinois, a post-office of Ogle co.

Hai'deman, Sawuz Syenman, an American naturalist and philologist, born near Columbia, Pa., in 1812 and educated at Dickinson College, was employed on the New Jersey and Pennsylvania geological surveys in 1836-37. In 1871 he became professor of Natural History in the University of Pennsylvania, four years later obtained the same post in the Delaware College, Newark, Del., and was afterward professor of Geology and Chemistry to the State Agricultural Society of Harrisburg, Pa. He addressed several interesting papers on entomology and conchology to the scientific societies of Philadelphis and Boston, a list of which will be found in Agaziris Nomenclator Zoilogicus, and in Allibone's Dictionary of English and American Authors. Prof. H. directed much of his attention to the philosophy of speech, and its bearing on etymology. His essay, H. directed much of his attention to the philosophy of speech, and its bearing on etymology. His essay, Analytic Orthography, containing phonetic versions of the Lord's Prayer in Cherokee, Wyandot, and Grebi, and examples of the numerals from one to ten in about 70 languages or dialects, with the pronunciation appended by the author from the lips of the nativea, gained the Trevelyan prize in England (1858) against 18 European competitors. In 1851 he published avolume on the ancient pronunciation of Latin. At the time of his death, Sept. 10, 1880, he was professor of Comparative Philology in the University of Pennsylvania.

Hal'densilebem, Neus, a town of Prussia on the Ohre, 14 miles N.W. of Maigeburg. Massy. Linen and clay-pipes. Pop. (1825) 6,159.—Atr Haldensilesex, a town on the opposite bank of the Ohre, has a pop. of 2,200.

Hal'dimand, a co. of province of Ontario, bordering

Hal'dimand, a co. of province of Ontario, bordering on Lake Erie; erac, about 459 sq. m. Rivers. Grand and Chippeway rivers, and Nanticoke creek. Surface, broken; soil, tertile. Cap. Cayuga. Pop. 16,308.

Hale, Siz Marthew, learned English jurist; born 1609.
After completing his education at Oxford, he was admitted to the bar and became, successively, counsel for Lord Strafford, Archbiship of Land, and, in 1647, for the eleven members of the House of Commons whose impeachment was demanded by the army. In 1059 he entered parlisment, and after filling a minor judgeship was appointed, in 1671, Lord Chief Justice of the King's Bench. He left behind him the reputation of being one of the ablest and most incorruptible men who ever were the ermine. His chief works are History of the Crown, a work of great authority, and the History of the Common Law (6th ed., 8vo., London, 1820). Died in 1676.

1820). Died in 1876.

Effale, Nathan, soldier and patriot, was born in Coventry, Conn., June 6, 1756; graduated at Yale (1773), and tanght school at East Haddam and New London in his native State. At the beginning of the War of Independence he enlisted, and became a lieutenant in the regiment commanded by Col. Charles Webb. He was made captain in Jan., 1776, and, with a few picked men, captured a British supply vessel at New York under the guns of an English frigate. Subsequently he volunteered to enter the British lines as a scout; was apprehended, and hanged as a spy in New York city, Sept. 22, 1776.

Effale, a. [A. 8. Adl; Ger. Aedl.] Healthy; sound; hearty; well-complectioned; robust; unimpaired; as, a hade body.

haul

Lest be hale ye to the judge.-Luke xil, 58.

haul.

Lest be hale ye to the judge.—Luke xii, 58.

A violent pull or haul.

Hale, in Missouri, a post-village of Carroll co. Pop. (1897) about 590.

Hale's Eddy, in New York, a post-vill. of Delaware co. Hale's Eddy, in New York, a post-vill. of Delaware co. Hale's Eddy, in New York, a post-vill. of Delaware co. Hale's Eddy, in New York, a post-vill. of Delaware co. by the two beautiful species H. tetraptero and H. diptera.

Hal'ewy, Jacques François Fromental, a French musical composer, E. at Paris, of Jewish parentage, 1799. The first work of H's that brought him any considerable reputation was La Jusice, produced at the Grand Opéra in 1835. The most important of his subsequent pieces (of a serious character) were, La Reine de Chypre, Charles VI., Le Jusif Errant, and La Magiciense. Those executed for the Opéra Comique are regarded as his most successful; the principal are—Les Mousquedaires, L'Eclair, and Le Vai d'Andorre. D. 1862.

Half. (haf.) n; pl. Halus. [A.S. half, healf; Ger. halb.] A moiety; one part of a thing which is divided into two equal parts.

—e. a. To divide into two equal parts.

—e. d. In part, or in an equal degree; as half joth, half

than none.

In part, or in an equal degree; as, half loth, half

consenting.

Half'and-half, n. A mixture of bitter beer and strong ale, or of porter and ale, much used in England.

Half'-binding, n. A mode of binding books, by which the back, and sometimes the corners, are of

or pasteroard.

Hmil'-blood, n. Relation between persons born of
the same father, or of the same mother, but not of both. "A sister by the helf-blood."-Lock

Haif'-blooded, adj. A term applied to animals when but one of the progenitors is of pure blood; as a half-blooded Durham ox.

Mean ; degenerate.

" Half blooded fellow, yes."—Shake.

Half-boarder, s. A term applied in pensions or boarding-schools to such persons who take in the estab-lishment no other meal than their dinner. Half-bound, a. Having but the back, and some-

man: -nounms, a. Having our the back, and some-times the corners bound in leather, the rest being in cloth or paper, as a book. Haif bred, a. Imperfectly bred; not thoroughly acquainted with the rules of good breeding; unpolished;

impolite; rude.

Half'-breed, a. Half-blooded; as, a half-breed Cana

dian.

-n. One whose father is of one race, and the mother of a distinct one. In America, the term is most frequently applied to the offspring of Indians and whites.

Half breed Creek, in 1600a, enters Des Moines River

in Lee co.

Half-brother, n. A brother by one of the parents, but not by the other; a step-brother.

Half-ceaste, n. A term mostly used in British India, and signifying the offspring of a European and Hindoo.

Half-ceast, n. (Numis.) A copper coin of the United States, of the value of five mills, or the 200th part of a dollar. The first were issued in 1793, the last in 1857.

Half-ceak, n. The position of the cock of a gun, when it is retained by the first notch.

-v. a. To set the trigger of a fire-arm at the first notch.

Half-crowm, n. The half of a crownpiece sterling, value about 58 cents.

Half-Day, in Riissots, a post-village of Lake co., about 28 m. N. of Chicago.

Half-dime, n. (Numis.) A silver coin of the U.

Half'-dime, n. (Numis.) A silver coin of the U States, of the value of 5 cents, or the  $\frac{1}{20}$  of a dollar. Its weight is 19 grains and 70 of a grain,—equal to 700of an ounce troy,—and is of the fineness of 1000. was first coined in 1793.

was first coined in 1793.

\*\*Half'-dollar, n. (Numis.) A silver coin of the U. States, of half the value of the dollar or unit. Its weight, as reduced by Act of Feb. 21, 1883, is 129 grains, and its fineness 1000.

\*\*Half'-eagle, n. (Numis.) A gold coin of the United States, of the value of five dollars. Its weight is 639 grains of standard fineness, namely 1000 of pure gold, and 100 of eller of silver and connections.

grains of standard meness, namely 7000 of pure good and 100 of alloy of silver and copper.

Halfer, n. A male fallow-deer castrated.

Half-faceed, a. Showing only one half or a part of the face; small-faced;—used contemptuously.

"This same half-faced fellow, Shadow."—Shaks.

Half-hatched, (hatcht) a. Only partially incubated; as, "eggs but half-hatched."—Gay.
Half-heard, a. Not heard throughout; heard but

"And leave helf-heard the melancholy tale."-Pope.

Half-hearted, a. Not having true courage or genu

Half-hearted, a. Not having true courage or genuine affection; unkind; deficient in generosity.
 Half-length, a. Containing but one half the length or size of a person; as, a half-length portrait.
 Half-mast, a. Placed at half the height of a mast, as a flag. (Implying a death ou board ship, or used as a mark of mourning.)
 Half-measure, n. An imperfect plan of operation; a feeble effort.

a feeble effort.

Haif-moon, n. The moon at its quarters when half its disc appears illuminated.—Anything in the shape of a half-moo

a hair-moon.
(Norti) See RAVELIN.

Haif Moon, in New York, a post-town and township of Saratoga co., on the Hudson river, about 12 miles N. of Albany. It borders on the Eric Canal. Pop. 3,732.

Haif Moon, in Pressylvenia, a township of Centre co.

Haif Moon Island, in Tennessee, a post-office of

Half-Moon Bay, or Spanish-town, in Cali-fornia, a post-village of San Mateo co., about 25 miles S. of San Francisco.

of San Francisco.

Half-Moon Keys, a number of small islands and reefs E. of Portland Point, at the S. extremity of Jamaica, West Indies.

Half-mode, a. (Mus.) A minim, being half a semibrove.

Hal'ford, in Alubama, a P. O. of Dekalb co.

man toru, in A monma, a r. 0, of levand co.

Half-pace, Haute'pace, Haut'pas, n. (Arch.)

A raised floor in a bay-window.

Half-part, n. The half of anything; an equal share or division.

or division.

Half-pay, n. Half the amount of salary or wages;
particularly, in most of the standing armies of Europe,
a reduced allowance to a naval or military officer, on
his retirement from professional duty, or when he is

not on actual service Receiving or entitled to half-pay; as, a half-pay

onner.

Halfpenny, (haf'pen-ny, or hā'pen-ny,) n.; pl. Half-PENCE. An English copper coin, of the value of half a penny, or one cent; also, the equivalent value of half a penny; as, a halfpenny lost.

Helf' ennyworth, n. The worth or value of half a penny.

"Oh, monstrous! but one halfpennquerth of bread to this in-tolerable deal of sack!"-Shake.

leather, while the rest of the binding consists of cloth, Half-pike, s. (Mil.) A small, short pike, formerly or pasteboard.

ing ships.

Half-pint, s. The fourth part of a quart; as, a half-

 Half-pint, n. The fourth part of a quart; as, a half-pint of wine.
 Half-port, n. (Naut.) A wooden shutter for a ship's port-hole, having a circular aperture to allow the mussle of a gan to protrude.
 Half-press, n. (Printing.) The quantity of work performed by one man at a printing-press.
 Half-price, n. Half the usual price charged for admission to a place of public entertainment; a reduction of the charge for admission made late in the evening, or when a performance is half over.
 Half-pead, a. Having superficial knowledge by read-Half-re

ad, a. Having superficial knowledge by reading. **Half-round, s.** (Arch.) A moulding of semicircular

Half-scholar, (häf'sköl-ar,) n. One imperfectly

learned.

Haff-seas-o'ver, a. Somewhat intoxicated with liquor. (Used colloquially.)

Haif-shift, n. A movement of the hand in playing the violin, whereby a high note is produced.

Haif-sighted, (hdf-sit-sd,) a. Seeling imperfectly; having weak discernment.

Haif-sister, n. A sister by one parent only.

Haif-step, n. (Hai.) A semitone.

Haif-straimed, a. Half-bred; imperfect.

"I find I'm but a half-strain'd villain yet."

Half-sword, n. Close fight; combat within half the

manu: -sworu, n. Utose ngnt; combat within half the length of a sword.

Half-terete', a. (Bot.) That is flat on the one side, and terete on the other.

Half-tide, n. lialf the duration of a single tide, or nearly side, house.

Half-tide, n. Half the duration of a single tide, or nearly six hours.

Half-timbers, n. pl. (Ship-building.) Those timbers in the cant-bodies which are answerable to the lower futtocks in the square body.

Half-tint, n. (Fuinting.) See DEMI-TINT.

Half-tongue, (-ting.) n. (O. Eng. Law.) A jury composed half of denizens, and the rest aliens.

Half-way, adv. In the middle; intermediate; \*t half the distance.

the distance.
"He meets destiny half-way, nor shrinks at death."—Gran -a. At unequal distance from the extremes; as. a half-

-d. At unequal usuance and a Allen co.

Half-way, in Kennchy, a post-office of Allen co.

Half-way, in Missonri, a post-office of Polk co.

Half-way, in New York, a P. O. of Onondaga co.

Half-way, in Oregon, a P. O. of Union co.

Half-way Prasirle, in Iossa, a village and former post-office of Monroe co.

Half-wit, s. A numskull; a dolt; a blockhead; a

silly person.

Half-witted, a. Weak in intellect; silly; dull in

Half-witten, a understanding.

Half-year, n. The period of six months.

Half-yearly, a. Semi-annual; two in a year.

—adv. Semi-annual;; twice in a year; sa, the dividends are payable half-yearly.

Halfbut, n. (Zöd.) The common name of the genus —acc. Semi-annually; twice in a year; as, the dividence are payable half-parely.
Hal'lbut, n. (Zoid.) The common name of the genus Hippoglosus, which includes the largest fishes of the Pleuromutidz, or Flounder family, attaining the length of 6 or 7 feet in the North Atlantic, and weighing from 300 to 400 lbs.

Hal'ibut Island, in Alaska, an island in the North Pacific Ocean, near the S.W. extremity of the peninsula of Alaska: Lat. 54° 48' N., Lon. 164° 15' W. Circumference 22 m. This island was discovered by Capt. Cook, the celebrated uavigator, who named it from the immense numbers of halibut taken off its shores.

Hailearmas'sus. (Anc. Geog.) A city of Caria, in Asia Minor, on the Ceramian-Gulf, where the small town Asia Minor, on the Ceramian-Guit, where the small town of Boudroum now stands. It was originally called Z-phyria, was of Dorian origin, and is famous as the birthplace of Herodotus, B. c. 484. The celebrated tomb of Mausolus was erected B. c. 353, and the city was taken by Alexander the Great, B. c. 334. It was a bishopric in the Primitive Church. The site of the ancient town was discovered in 1839 by Lieut. Block.—See MAUSOLEUM.

Haffecurities, n. sing. [Gr. alicutikos, relating to fishing.] Lothyrology.

Half dies Acid, n. pl. (Chem.) Compounds of chlorine, bromine, &c., with oxygenated or acid radicals.

Half fax, George Saville, Masquis or, an English statesman, s. 1630. He contributed to the restoration of Charles II., who made him a privy councilor, and rewarded him with a coronet. On the accession of James wared nim with a coronet. On the accession of James II., he was appointed President of the Council, from which he was dismissed for refusing his consent to a repeal of the Test Acts. In the Convention Parliament he was chosen speaker of the House of Lords, and at the accession of William and Mary was made Lord Privy Seal. D. 1896.

Seal. D. 1695.

Hal'iffax, a manufacturing town of Yorkshire, England, on a branch of the Calder, 35 m. S.W. of York. Manuf. Cloths, plush, carpets, cotton thread, with several dyeing establishments.

Hal'ifax, a maritime city of British N. America, on a small peninsula on the S.E. coast of Nova Scotia, of which it is the cap. The town stands on the declivity of a hill about 250 ft. in height, rising from the W. side of one of the finest barbors in the N. American continent. The streats are generally broad and the front of the one of the linest introor, in the N. American continent. The streets are generally broad, and the front of the town is lined by wharves. Warehouses rise over the town is lined by wharves, and dwelling-houses and public buildings rear their heads over each other as they etretch along and up the sides of the hill. Among the chief-public fulldings, control of the hill. Among the chief-public fulldings, control of the hills of the hills of the hills of the hills of the hills.

usining the govt. offices, legislative chambers, Supreme Court, and public library; Dalhousie College, Military Hospital, &c. The dockyard covers 14 acres, and forms the chief dep6t of naval stores in the British N. Amer-ican colonies. The harbor opposite the town, where the chief depôt of naval stores in the British N. American colonies. The harbor opposite the town, where ships usually anchor, and where, at medium tides, there are 12 fathoms of water, is rather more than a mile wide. After narrowing to ½ m., about 1 m. above the upper end of the town, it expands into Bedford Basin. This sheet of water, which is completely landlock: 4, occupies a surface of 10 sq. m., and is capable of containing the whole British navy. H. harbor is accessible at all seasons, and its navigation is scarcely ever interrupted by ics. The best mark in sailing for it is Sambro lightones, on a small island off Sambro Head, abt. 13 m. S. by E. of Halifax, with a fixed light 210 ft. high. Another light-house, on a small island off Sambro Head, abt. 13 m. S. by E. of Halifax, with a fixed light 210 ft. high. Another light-house stands on Magher's Beach, a spot extending from McNab's Island, at the very entrance of the port. When the latter light is seen, ships may run in without fear. The harbor and its approaches are fortified by strong batteries. A canal connects H. harbor with Cobequid Bay and the Bay of Fundy. Since its first settlement, in 1749, H. has continued to be the seat of a profitable fishery: and its general commerce is highly prosperous, engrossing as it does nearly the whole foreign trade of Nova Scotia. In 1817, H. was declared a free port to a certain extent, and has since acquired the privilege of warehousing. Some ships of large size are employed in the South-Sea fishery, but, generally speaking, the inhabitants are less enterprising and successful shers: than the New-Englanders. Mail-steamers sail employed in the South-Sea fishery, but, generally speaking, the inhabitants are less enterprising and successful fishers than the New-Englanders. Mail-steamers sail between Hulifax and Liverpool, and Falmouth, Eng., and other packets regularly to Boston, New York, and the W. Indies. Mansi, Soap, candles, leather, paper, sugar, tobacco, beer, liquors, &c. Pop. (1887) 39,900.

Hal'ifax, in Massachusetts, a post-town and township of Plymouth co., about 30 m. S.S.E. of Boston. Pop. (1885) 562.

HALL

(1895) 562.

\*\*Hal'flax, in North Cirolisia, a N.N.E. co.; area, about 680 sq. m. Rivers. Roanoke river and Fishing creek. Surface, diversified; soil, fertile. County-east, Halifax. Pop. (1890) 28,908.

—A post-town, cap. of Halifax co., on the Roanoke river, about 87 m. N.E. of Raleigh. It is memorable as being the place where the constitution of North Caralina was formed.

formed.

Hal'ifax, in Pennsylvania, a post-borough and township of Dauphin co., on the Susquehanna river and the Northern Central B. R., 20 m. N. of Harrisburg. Pop. (1897) about 610.

(1897) about to 0.

Hal'ifax, in Kentucky, a post-office of Allen co.

Hal'ifax, in Vermont, a post-town and township of Windham co., 120 m. S.W. of Montpelier. Pop. (1897) shout 720.

about 720.

Hal'flax, in Virginia, a S. co., bordering on North Carolins; area, about 820 sq. m. Rivers. Staunton or Roanoke, Dan, Banister, and Hycootec rivers. Surface, generally level; noil, fortile. Miss. Plumbago. Cap. Houston. Pop. (1890) 34.424.

Hal'famas, s. Same as Hallownas.

Haliog'rapher, n. One who treats of, or describes

the sea.

Hallog'raphy, n. [Gr. als, the sea, and graphein, to describe.] A treatise on, or description of, the sea.

Hallotold, a. (Zohl.) Ear-shaped.

Hallotold, a. (Zohl.) Ear-shaped.

The Ear-shell family, containing gasteropods, the shell of which somewhat resembles in shape the human ear. The head of the animal is large, having two long, round tentacula, with eyes at the base on footstalks; foot very large, having the margin fringed all round. It is always found near the surface of the water. Found in the East Indies. the East Indies.

the East Indies.

Ha'llte, n. (Min.) Bock-salt: common salt; chloride of sodium: NaCl. Comp. Chlorine 607, sodium 393.

Sp. gr. 21-2257. Color white,—sometimes blue, purplish, yellowish, or reddish, from the presence of impurities. Rock-salt occurs in beds of rocks of different geo-

ties. Rock-sait occurs in beds of rocks of different geo-logical ages, and is generally mixed with chloride of calcium, chloride of magnesium, and sulphate of lime,— also, sometimes, with sulphate of magnesia. — For a full account of sait-inining and manufacture, see SAIR. Hallitus, n. [Lat., vapor.] (Physiol.) The aqueous vapor exhaling from newly-drawn blood. It has a peculiar odor, which soon disappears. Hall, n. [A. S. heal. heal! b. hal; Ger. halle; Lat. aula; Gr. au-lē, probably from aēmi, to breathe hard, to blow, because in Grecian houses the hall was open to the air; Sansk. dlaya, a house.] A large room at the entrance of a house or suite of chambers.

"That light we see is burning in my hall."-Shake A public room in a building, devoted to the administra-

A public room in a building, devoted to the administration of magisterial justice; a spacious building attached to inns of court; as, the hull of the Middle Temple. (Eng.) — A place of public assembly; as, a town-hall, a music-hall, &c. — A term given to certain colleges in the English universities; as, Magdalen Hall, Oxford. It is also applied to the public eating-room of a college; as, to dine in hall.

(Hist. and Arch.) The principal apartment in the castles and mansions of the Middle Ages, which was used on all occasions of ceremony, and in which the meals were served. Some of the palaces of the early Frank and Saxon kings appear to have consisted of little else than the hall. The earliest existing specimens are of the 12th cent.; and though none of them retain their roofs or fittings, it is apparent that several of them were divided into three alleys, by rows of pillars and arches. In these halls the king, together with his courtiers and all his retainers, dwelt, sitting at the same table and around the same hearth. There was generally

another smaller chamber attached, in which the king and his courtiers slept, while the retainers slept in the hall. The Normans built halls very similar to those of the Saxons; and, with few modifications, similar build-ings were erected until the 14th cent. The population then being more numerous, and manners more refined, then being more numerous, and manners more refined, it became necessary to have more numerous apartments. The hall, however, held its place as the chief room of the house, in which the king or lord of the manor administered justice, gave audiences, or received and entertained his guests. From the 14th cent. downwards, numerous examples of large and stately halls still remain in England, France, and Germany. Among the finest of these relics may be mentioned that at Eltham Palace, Kent, Eng., represented in Fig. 1231. The hall

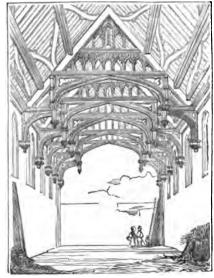


Fig. 1231, - THE GREAT HALL AT ELTHAM PALACE, (Eng.)

Fig. 1231.—THE GREAT HALL AT ELTHAM PALACE, (Eng.)

originally was essentially a part of feudal architecture. The principal entrance was at one end, where, in those which retain traces of the original fittings, a space is parted off by a screen extending acroes the whole width, and supporting a gallery above. In the screen were doors leading into the leady of the hall. At the upper end, a portion of the floor, called the dais, was ruised one or two steps above the rest, on which was placed the principal table, at which the host and superior guests sat. The chief seat was in the middle, next the wall, commanding a view down the room. The fire, or open hearth, was often in the middle of the floor, and the smoke escaped through a louvre on the top of the roof; sometimes, however, fire-places were formed in the side-walls. In halls of the Perpendicular date, there was a large bay-window at one end, and sometimes at both ends, of the dais, where the "cupboard," or buffet, was placed. Many of these arrangements are still retained in the university halls. The walls were frequently lined, for some part of their height, with wainscoting, and an ornamental canopy was fixed over the principal seat. The walls were also sometimes hung with tapestry or carpeting.

Hall, James, an American judge and author, B. in Philadelphia, 1793. He served during the war of 1812-14, and in 1818 returned to the study of the law at Pittburg, Penna. In 1812 he was elected judge of the circuit court of Illinois, and also State treasurer. In 1833 he took up his residence in Cincinnati, where he devoted himself to the mixed pursuits of banking and literature. His chief works are, Legends of the West (2 vols., Philadelphia, 1832; 24 ed. 1833); the Harpe's Head, a Legend of Kentucky (1833); Sketches of the West (2 vols., Philadelphia and Washington. 1838-1844), for which he supplied the greater part of the leiter-press. Of his later works the chief are the Widdrness and the War-Puth (New York, 1845), and the Romance of Western History (Cincinnati,

in 4 vols. in 1853. D. 1868.

Hall, James, a distinguished American geologist and palseontologist, B. at Bingham, Mass., in 1811. After studying at the Rensselaer School, N. Y. State, for 6 years, H., in 1837, was appointed on the New York Survey, and his report has been published in a 4to. vol., with illustrations from his own pencil. While thus engaged he was able to direct his attention to the palseozoic formations of the W. States of this country; and 3 vols. of the Pulscontology of New York, published in 1847, 1852, and 1859 respectively, embody his investigations on this subject. In the production of this work Prof. H. had to contend against several obsteles, and in one of the intervals which occurred while the State in one of the intervals which occurred while the State
was hesitating whether it should go on, he was invited
to take part in the Canadian Survey, under Sir William

Logan. This offer, however, H. was obliged to decline, having been appointed, in 1855, Geologist of the State of lowa, of the survey of which he published a volume in 1865; and the New York legislature having made final arrangements with him to continue his "Palseoutology." In 1860 Prof. H. was elected by the B-yal Geographical Society of London one of its 50 foreign members, and in 1855 he received the Wollaston Medal from the same scientific body. He is a member of several scientific on

Society of London one of its 50 foreign members, and in 1859 he received the Wollaston Medal from the same scientific body. He is a member of several scientific societies in Europe and in the U. States, to which he has at various times contributed many valuable papers.

Hall, LIMAN, one of the signers of American Independence, B. in Conn. about 1731, graduated at Yale College in 1747, commenced the study of medicine at Sunbury, Ga., in 1752, represented the latter State in Congress, 1775-80, was appointed Governor of his State in 1783, and D. 1791.

Hall, Samuel Career, F.S.A., English art and literary critic, born May 9, 1800. After a considerable literary experience, he established, in 1839, the Art Journal, which stood at the head of its class, and had considerable influence on the progress of British art. H. was also the editor of the Book of Gems, Book of British Ballads, Baronial Hulls of England, &c. Died March 16, 1899.—His wife, Anna M. F. H., born in Dublin, Jan. 6, 1804. Was a voluminous novelist and story writer, her work including Sketches of Irish Character; Tules of the Irish Peasantry, The French Refugee, &c. Died Jan. 30, 1881.

Hall, in Georgia, a N. co.; area, about 497 sq. m. Risers. Chattahouchee, Chestatee, and Oconee rivers. Surface, extremely diversified; soil, fertile. Mia. Gold, diamonds, silver, lead, rubics, emeralds, and amethysta. Cap. Gainesville. Pop. (1890) 18,013.

Hall'aim, Henry, an English historian, B. at Windsor, 177. His father was dean of Bristol. After studying at Eton he was sent to the university of Oxford, where he distinguished himself by his classical attainments. He afterwards settled in London, and entered upon his career of literary labor as one of the first contributors to the "Edithouch Region" (H. 1840) in the Scateff State & Games and the street of literary labor as one of the first contributors to the "Edithouch Region" (H. 1840) in the Scateff State & Games and the street of literary labor as one of the first contributors to the "Edithouch Region" (H. 1840

at Eton he was sent to the university of Oxford, where he distinguished himself by his classical attainments. He afterwards settled in London, and entered upon his career of literary labor as one of the first contributors to the "Edinburgh Review." His Vision of the State of Europe during the Middle Ages, published in 1818, was the first great result of his studies and researches. His masterly work on the Constitutional History of England was given to the world in 1827. Hallam belonged to the Whig party in politics, but he preserved a singular calmness and exemption from political passions, and wrote with an impartiality which is rarely rivalled. In 1833 a very heavy blow fell on him in the death of his eldest son, a young man of high promise, and the chosen friend of Alfred Tennyson, whose love and sorrow are recorded in those exquisite lyrics which form his "In 1837-39, was his Introduction to the Literature of Europe in the 15th, 16th, and 17th Centuries. Other family bereavements followed in rapid succession, and after losing his daughter, his wife, and his second son, (the last in 1850), the aged and mourning father himself died in 1859. He works have passed through many editions, and have been translated into the French and German languages. German languages.

Hal'lamshire, a district of England, in the S.W. riding

Hal'lamashire, a district of England, in the S.W. riding of co. York.

Halle, [hah!] [Anc. Hala Sazonum.] A city of Prussia in Saxony, on the Sasle, 9 m. N. of Merseburg.

Manuf. Woollens, stockings, silk, leather, buttons, hardware, and starch. The University of H., founded in 1604, and to which the University of Witt-niberg was united in 1815, is of very high literary repute. Pop. 62,620.

united in 1810, is of very night interary repute. 20p. 52,620.

Halleck, Fitz-Greens, an American poet, s. at Guilford, Conn., 1795. He entered a banking-house in New York city in 1813, and remained in that city engoged in mercantile pursuits until 1849, when he returned to Connecticut. His first contribution to American literature consisted of various humorous and satirical odes and lyrics, contributed to the "New York Evening Post" in 1819, in conjunction with his friend J. R. Drake, under the pseudonyms of "Croaker," and "Fanny." His longest satirical poem appeared in the same year. In 1822 H. visited England and the continent of Europe, and on his return to the U. States, in 1827, brought out a small vol. of poems, containing Americk Custe, Marco Bossaris, &c.; and some other pieces, which had appeared in different periodicals, were collected and published in 1835. For some time previous to the death of J. J.

ris, &c.; and some other pieces, which had appeared in different periodicals, were collected and published in 1835. For some time previous to the death of J. J. Astor, H. was engaged to assist him in his business affairs, and was one of the original trustees of the Astor Library. In 1866 appeared his last work, Foung Asseries, which is not up to the mark of its predecessors. D. 1867. His statue was erected in Central Park, N. Y., in 1877. Hall leek, Hanry Wase, an American general, z. in New York city, about 1810, entered West Point as a cadet in 1835, graduated in 1839, was appointed to the U.S. Engineer Corps as 2d licutemant in July of the same year, and was one of the Assistant Engineer Professors at West Point from that time till 1840. He was made let lieut, in 1845, having previously published a work on Biumen, and he wrote a series of lectures on War, published in 1846 under the title of Riements of Military Art and Science. In the Mexican war he served on the Lower Californian coast, and was breveted captain in 1847. From the latter year till 1849, H. was secretary of the State of California under the military govt. ci Gens. Kearney, Mason, and Riley. In 1849 he was a member of the convention to form and draft the coast. Gens. Kearney, Mason, and Riley. In 1849 he was a member of the convention to form and draft the constitution of the State of California, was promoted to be

capt. of engineers in 1853, and retired from the service in 1854. H. practised law in San Francisco, and was at the head of a prosperous firm at the breaking out of the civil war. At the instance of Gen. Scott, he was recalled from San Francisco in 1861, and commissioned a major-general of the U. States army, Aug. 19. On his arrival he was placed in command of the dept. of the West to relieve Gen. Hunter. Early in 1862, after the victories of Paducah, Fort Donelson, Fort Henry, &c., it became necessary to enlarge the dept., thereby embracing all the country, for some miles, on both sides of the Mississippi River. Gen. H. directed the slege of Corinth in May; was called to Washington, and appointed Commander-in-chief of the Union armies, July 11, retiring in favor of Gen. Grant in 1864. D. 1872, Halleluiah, Halleluiah, (hal-lê lû'ya,) n. and saterj. [Heb., from obool. halal, to be clear, to sing, to chant, to praise, and Jah, Jehovah.] Praise ye the Lord; give praise to God:—a well-known doxology derived from the Old Testament, and used, among the early Christians, at Easter, and during the interval thence to Whitsuntide.

Haller, Alexar, an eminent anatomist and physiologist.

early Christians, at Easter, and during the interval thence to Whitsuntide.

Haller, ALSERT, an eminent anatomist and physiologist, a at Berne, Switzerland, 1708. He was originally destined for the Church, but subsequently turned his attention to medicine, which he studied under Camerarius and Duvernay at Tübingen, and afterwards at Leyden under Boerhaave, where he was the associate of Albinus and Ruysch, and where also he graduated as a doctor. He was appointed teacher of anatomy in 1734; but his reputation having greatly extended, he was nominated Professor of Anatomy, Surgery, and Botany, in the university of Göttingen, by George II. of England, in 1738. Here he remained 17 years, and here his great work, Disputationes Anatomica Science, by which he is chiefly known, was composed. He refused the chair of botany in Oxford, and he declined solicitations from the king of Prussia, the States of Holland, and the empress of Russia. George II., in consideration of his great merits, Russia. George II., in consideration of his great merits obtained for him a brevet as a noble of the empire, and be is often spoken of as Baron Haller; but he never used this title in his native country. He left Göttingen for Berne in the year 1753, and spent the rest of his life in honorable but active retirement in Swkzerland. D

at Berne, 1777.

Hai'lett's Cove, or Astoria, in New York. See As-

Hal'lettaville, in Texas, a post-town, cap. of Lavaca co., 80 m. S.E. of Austin. Pop. (1890) about 1,200.

Hal ley, EDMUND, an English astronomer and mathematicing a at Hargerston page London 1866. He rematicin, s. at Haggerston, near London, 1656. He re-ceived his education at St. Paul's School, and Queen's Coll., Oxford, where he attained so great a proficiency in mathematical studies, that in 1676 he published observations on a spot in the sun, by which the motion of that body on its axis were determined. The same observations on a spot in the sun, by which we measure of that body on its axis were determined. The same year he went to St. Helens, where he determined the positions of 350 stars. On his return to England he was created master of arts, and chosen a fellow of the Royal Society. In 1680 he made the tour of Europe with Mr. J. Nelson; and on the passage to Calais was the first to observe the great comet—the same which visited our hemisphere again in 1835. (See Comer.) After his return, he gave his attention to the theory of the planetary motions, which made him acquainted with Sir issue Newton, who intrusted to him the publication of his Principia. To ascertain exactly the cause of the variation of the compass, he was made commander of a ship in 1698, and sent to the Western Ocean; but his crew being mutinous, he was obliged to return. The year following he sailed again, and proceeded as far south as the ice would permit; the result of which observations he published in a general chart. In 1703 he was appointed Savilian professor of geometry at Oxford: in 1705 he made public his valuable researches on the orbits of comets; in 1713 he became secretary to the Boyal Society; and in 1719 he succeeded Flamsteed as Astronomer Royal. The remainder of his life was chiefly spent in the sedulous performance of his duties in that attation, especially in completing the theory of the motion of the moon. D. 1742. His principal works are Catalogus Stellarum Australum, Tabuke Astronomice. An Abridgment of the History of Ometa, &c.

Halliards. (hall yards.) n. pl. (Naut.) The ropes or tackies usually employed to holst or lower any sail on its respective mast. (Also written halyards and haulyards.)

Hisliards. (hall yards.) to pull.] A kind of net for

Hallier, n. [From hale, to pull.] A kind of net for

enemaring birds

ensnaring birds.

Hal'1i-be. n. (Mn.) Same as Aluminits, q. v.

Hall'-mark, n. In England, the official mark of the Goldsmiths' Company, &c., affixed to gold and silver plate, as the stamp of its purity.

Hal'leck, in Georgia, a district of Chattahoochee co.

Hal'leck, in Illinois, a post-township of Peoria co., about 10 m. S.W. of Lacon.

about 10 m. S.W. of Lacon.

Halleck's Mills, in New York, a village and former
post-office of Westchester co.

Hallec', v. n. [Fr. haler, to hound or set on dogs; probably akin to A. S. ahlowan, to low, to bellow.] To cry
out: to call to by name, or by the word halloo, with a lond voice.

" A ory m

HALL

- state of the consequency as, halloo, boys!

Hallow, (hallo,) v. a. [A.S. halloo, boys!

Hallow, (hallo,) v. a. [A.S. halloo, boys!

to consecrate; to set apart for sacred or religious use; to reverence as holy.

"And vessel first in hallow'd temples burn." — Dryden.

to reverence as holy.

"And vestal fires in hallow'd temples burn."—Dryden.

Halloween', n. In Scotland, a term designating the eve of Hallowmas, or All-Saints' day.

Halloween', James Orchard, pass, an English archeologist, B. at Chelsea, 18:20. At an early age he showed considerable taste for antiquarian researches, and made himself thoroughly acquainted with the ancient literature and antiquities of England. These studies led him to Shakspearean criticism, on which he has written extensively. His most important works were: A Life of Shukespeare; A Descriptice Calendar of the Records of Stratford-on-Aron; A Dictionary of Archaic and Provincial English; Popular Rhymes and Nursery Tales, published in 1849, and an edition of Shakespeare in 16 volumes folio, brought out by public subscription, and completed in 1965. Died Jan. 3, 1889.

Hallowell, in Maine, a thriving city of Kennebec co., on the Kennebec river, and the M. C. R. R., 2 m. S. of Augusta. Pop. (1897) about 3,400.

Hallowenas, n. [A. S. halig, holy, and masse, feast. See Mass.] The sacred feast of All-Souls, All-Saints, or All-Hallows.

Hall'lowman, n. [A. S. Actig, holy, and masse, feast. See Mass.] The sacred feast of All-Soula, All-Sainta, or All-Hallows.
Halloy'site, n. (Min.) A hydrated silicate of alumina. It occurs in earthy masses of various colors. In water some varieties become translucent and absorb one-fifth their weight of water. Sp. gr. 18-24. Comp. Silica 43-3, alumina 37-7, water 19-0. It is generally derived from the decomposition of minerals containing alumina as folders.

Silica 43.3, alumina 37.7, water 19.0. It is generally derived from the decomposition of minerals containing alumina, as feldspar.

Hails borough, in Virginia, a post-village of Chesterfield co., abt. 17 m. 8.W. of Richmond.

Hail's Cormers, in Indiana, a post-office of Allen co. Hail's Cormers, in New York, a P. O. of Ontario co. Hail's Isl'amdis, a small group in British N. America, at the W. entrance of Frobisher Strait; Lat. 63° N., Lon. 63° W.

Hail's Landing, in Illinois, a village of Putnam co., on the Illinois River, below Hennepin.

Hail's Mills, in Illinois, a village of Jackson co. Hail's Mills, in New York, a P. O. of Alleghany co. Hail's Mills, in New York, a P. O. of Alleghany co. Hail's Store, in Delawarr, a P. O. of Sussex co. Hail's Store, in Delawarr, a P. O. of Sussex co. Hail's Store, in Delawarr, a P. O. of Misson co. Hail's Valley, in Ohio, a post-office of Morgan co. Hails'ville, in N. Curolina, a post-village of Duplin co., abt. 07 m. S.E. of Raleigh.

Hails'ville, in New York, a post-village of Boone co., abt. 40 m. N. of Jefferson City.

Hails'ville, in New York, a post-village of Montgomery co., abt. 60 m. W. N.W. of Albany.

Hails'ville, in Texa, a post-village of Ross co., abt. 12 m. N.E. of Chillicothe.

Hails'ville, in Texa, a post-village of Elk co.

Hail'town, in Pennylania, a post-village of Elk co.

Hail'town, in West Virginia, a post-village of Jefferson co.

Hallucina'tion, n. [Fr., from Lat. hallucinatio, or alucinatio, from alucinor, from Gr. aluö, aluö, in Attic Gr. halüö, to wander in mind, from al-c, a wandering or

Gr. haliō, to wander in mind, from al-ē, a wandering or rouming, a wandering in mind.] A wandering of mind; error; delusion; mistake; folly; as, a mere haliucination of the vulgar. — A diseased state of mind, in which a person has a settled belief in the resility of things which have no existence.

(Physiol. and Med.) It was a favorite maxim of Kant's, "that the senses do not deceive us at all, — it is only the judgment that deceives us." This is indeed true of illusions, where what is represented to consciousness are objects really avisting but different from what they soline, where we wast in presented to consciousness what they really are; but it is not true as regards H. strictly so called, where the senses convey to consciousness what called, where the senses convey to consciousness what does not really exist, representing as an object what is only a subjective process. As regards illusions, they are often owing to inexperienced judgment, or may also proceed from a defective state of the organ itself, and may be corrected by observation. They sometimes may be corrected by observation. They sometimes affect only one, sometimes several, and even all of the senses. H. of the sight are perhaps the most frequent, and are commonly visions of sparks, flames, luminous spectres, terrific phantoms, &c. H. of hearing are also very common, — humming or ringing in the ear, the sound of voices, &c. H. of smell are much more rare; but hysterical persons often smell objects which are not bresent—such as sniphur, musk, violets, &c. H. of taste wholly resemble those of smell; and H. of touch are also present. It illusions we have chiefly to consider are also rare. In illusions we have chiefly to consider the external occasion and the mental condition of the individual; in H., the organic and physical condition. The illusion is often in the object, and is frequently pro-The Illusion is often in the object, and is frequently produced by emotions, heated fancy, passion, &c. The H. has always a subjective ground; either the receptive organ suffers, or the leading nerve, or the reacting cerebral centre, chiefly from pressure of blood, cramp, &c. The course and termination of these states of mind. "A sry more tuneable was never halloo'd to."—Shaks.
—c. d. To encourage with shouts.

To chase with shouts.—To call or shout to; to vociferate after.

"He that first lights on him. halloo the other."—Shaks.

—a. A hall; a call; a shout to command attention; as, a view-halloo.

"He that first lights on him. halloo the other."—Shaks.

—B. A hall; a call; a shout to command attention; as, a view-halloo.

"He that first lights on him. halloo the other."—Shaks.

—B. A hall; a call; a shout to command attention; as, a view-halloo.

-interj. Hey there? ho!—an exclamation inviting attention or encouragement; as, halloo, boys!

Eallow, (hal'tō), w. a. [A.S. halpian, gehalgian, to ideas.

Hal'lux, 1. [Lat. allex.] (Anal.) The great toe.

ideas.

Hal'ux, 1. [Lat. allaz.] (Anal.) The great toe.

Hal'ux, 2. Same as Hau'lx (q.z.).

Halm'stadit, a town of Sweden. capital of a district of same name, on the Cattegat, at the mouth of the Nissa, 96 m. W.N.W. of Carlscrona. Many. Woollen goods and various other fabrics. The district of which H. is the capital has an area of 1.950 sq. m., and a population of 117,600. Pop. of town (1897) about 10,900.

Ha'io, n.; pl. Haloss. [Lat. halo, halonis, or halos, halo, from Gr. halos, a threshing-floor, also the disc of the sun, a halo.] A circle of light; a nimbus; an aureola: a glory, as exemplified in the bright ring encircling the heads of saints, &c., in pictorial representations. (Motor.) A luminous circle or ring, usually colored, surrounding the sun or moon under certain conditions of the atmosphere. Of such rings there are two kinds, each apparently depending upon essentially different physical causes. The first are of small dimensions, their diameters being between 5° and 12°; generally three or each apparently depending are of small dimensions, their diameters being between 5° and 12°; generally three or more concentric rings appear together, differently colored, and presenting appearances similar to the optical

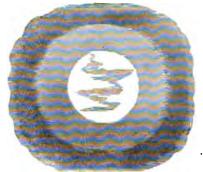


Fig. 1232. - HALO.

phenomena of the rings of thin plates. These are usually called corona: and they appear either when a small quantity of aqueous vapor is diffused through the atmosphere, or when light fleety clouds pass over the sun or moon. The second kind consist usually of a single moon. In second kind consist usually or a single luminous ring, but of much larger dimensions, the diameter being about 45°. It is to appearances of this kind that the term Aalo is usually appropriated. Vari-ous causes have been assigned for the origin of H.; but the most probable is that of Mariotte, who suppose the phenomenon to arise from the refraction of light in passing through small transparent and prismatic crystals of ice floating in the higher regions of the atmos-

phere.
(Anat. and Physiol.) An Arrola, q.v.
—v. a. or n. To surround with a halo.

Hall ogen, n. [Gr. hall, salt, gennein, to generate.]
(Chem.) A salt-producer. The H. include a group of non-metallic elements that combine with the metals and produce compounds resembling or analogous to common salt. Chlorine, iodine, bromine, and fluorine. common sair. Chlorine, localle, bromine, and nuorine are simple halogens, and cyanogen is a compound H. They have a great affinity for the metals, and combine directly with them at ordinary temperatures. United with hydrogen they form acids; also all of them except fluorine combine with oxygen and form acids.

Huorine combine with oxygen and form acids.

Halog-eneums, a. (Chem.) Partaking of the quality
of a halogen.

Haloid Ether, n. (Chem.) A compound formed by
the union of halogen with hydrocarbon.

Haloid Salt, n. (Chem.) A salt formed by the union
of one of the halogens with a metal. Common salt is
au example: it being formed by the union of chlorine
with sodium. NaCl.

of one of the halogens with a metal. Common sait is an example: it being formed by the union of chlorine with sodium, NaCl.

Haloraga'ceee, n. pl. [From Haloragis, the typical genus.] (Bot.) The Mare's-tail, or Water-chestnut family, a small order of plants, alliance Myrtales, closely allied to the Onagracee, q.v. There are 70 species in 8 genera. They are herbaceous or half-shrubby; pretty much scattered over the world, but almost all aquatic, or growing in wet places. The stems and leaves often have large air-cavities. The flowers are generally small, and the plants insignificant in appearance.

Hal'esceppe, n. [Gr. alös, halo, and slopein, to view.]

(Optics.) A beautiful instrument for the exhibition of the phenomena of halos, parhelia, &c. It was invented by Auguste Bravais in 1863.

Hal'escept. n. [From Gr., for hair-ealt.] (Min.)
An iron alum, or sulphate of alumina and iron. It is found in silky fibres of a whitish color and inky taste. (Omp. Sulph. acid 35-9, alumina 11-5, oxide of iron 8-1, water 44-5.

Halsey, in Oregon, a post-village of Linn co.

Hal'sey, in Oregon, a post-village of Linn co.

Halser (hawr), s. Old spelling of Hawsen (q.v.).
Hal'sey, in Oregon, a post-village of Linn co.
Hal'sey Valley, in New York, a P. O. of Tioga co.
Hal'stead, a town of Essex co., England, near the Colne, 43 m. N.E. of London, 23 m. S.W. of Ipswich.
Manuf. Baize, figured and plain silk-velvets, silk-winding and straw-plaiting. Pop. 6,280.
Halt, n. [A. S. healtian, to be lame, from healdan, to hold; Icel. haltra.] To hold up; to stop in walking or proceeding; to stop during a march.

—To limp, that is, to stop with lameness; to be lame.

"Stdney's verse halte lill on Roman feet."

-To hesitate; to stand in doubt whether to proceed, or what to do; to fail; to faiter.

"How long helt ye between two opinions?"—1 Kinge xviii. 28 -To have an irregular rhythm; as, "a halting sonnet."

w. a. (Mil.) To stop; to cause to cease marching; as, the troops halted in a valley.

Halt, a. [A.S. halte; Fis. halte; Dan. and Swed. halt; [cel. halter, lame.] Lame; holding up or stopping

hall; Icel. halltr, lame.] Lame; holding up or stopping in walking: limping.

—n. A stop in marching; as, the general brought his brigade to a hall.

—The act of limping; lameness.

Hall'er, n. One who limps or halts; a lame person.

Hall'er, n. [Ger., from halten, to hold; D. halfer, a halter.] That which holds, confines, or leads; especially, were and stranger bandstall for leading or securing a made stranger. a rope, and strap or headstall, for leading horse; also, a rope for hanging criminals. ding or securing

"No man e'er felt the helter draw,
With good opinion of the law."—Tra

with good opinion of the law."—Tramball.

-v. a. To put a halter on; to catch and hold with a halter; to bind with a rope or cord; as, a "haltered nack"—Shale.

nation; to bind with a rope or core; as, a "national neck." — Shaks.

Hal'tores, n. pl. [Lat.] (Zozi.) Two small club-like appendages which occur in Dipterous insects, and which are supposed to be identical with the hind wings of other

Halt'ingly, adv. In a lame, halting, or hesitating

manner.

Hal'tom, a co. of prov. of Ontario, bordering on Lake
Ontario; area, abt. 362 sq. m. Rivers. Twelve Mile and
Sixteen Mile creeks. Surface, diversified; soil, fartile.

Sixteen Mile creeks. Surface, diversined; sou, isrthe. Cop. Milton.

Hal'waxas, n. [Cornish.] Refuse of tin ore.

Halwe, v. a. [From half.] To divide into two equal parts; as, to halve a sheep.

To join, as timbers by letting into each other.

Halwed, (hab'd.) a. Divided into two equal parts.

(Bot.) Appearing as if one half was absent; dimidlate.

Halwes, (hdv.) n. pl. of Half. Two equal parts of a thing.

Halves, (hdvs.) n. pl. of HALF. Two equal parts of a thing.

Hal'yards, n. pl. (Naul.) See HALLIARDS.

Ham, n. [A.S.] A house, farm, home, or village;—
forming the initial or final syllable of many topographical names; as, Oldham, Hamburg.

Ham, n. [A.S.] L. Ger., and D. ham; Fris. hamme, the back part of the knee; Fr. jambe; It. pamba, from Lat. campe—Gr. kampe, the bend of a limb, a joint. See Jans.] The bend of the knee-joint behind; the inner or hind part of the knee; the inner angle of the joint which unites the thigh and the leg of an animal.—The thigh of a beast, particularly of a hog, salted and dried in smoke: or of a sheep; as, mutton ham.

Hams. [Heb., burnt, swarthy, black.] (Script.) A son of Noah. The impiety revealed in his conduct towards his father drew upon him, or, rather, according to the Bible statement, on his son Canaan, a prophetic malediction. (Gen. ix. 20-27.) Ham was the father of Cush, Mizraim, Phut, and Canaan, that is, the ancestor of the Canaanites, Southern Arabians, Ethiopians, Egyptians, and the Africans in general, (Gen. x. 6-20.)

Hama, a small town and fortress of France, dept. Somme, on the river Somme, 36 m. R.S.E. of Amiens, and 70 N.N.E. of Paris. H. is chiefly celebrated for its fortress



Fig. 1233. - HAM.

Fig. 1233), a strong castle, built in 1470 by the Count de St. Pol, which was the place of confinement of Marbœuf, Moncey, and others; and subsequently of Polignac, Chantelauze, Peyronnet, and Guernon Ranville from 1831 to 1836; and of Louis Napoleon, afterwards Emperor of the French, from 1840 till 1846. The round tower of this castle is 108 feet in height, and has walls of extraordinary thickness. Pop. 3,100.

Hann'adam, Amadam. [Anc. Egrayana, q.v.] A city of Persia, prov. of Irak, 100 m. W.S.W. of Teheran, Lat. 34° 50' N., Lon. 48° 32' E. H. is an entrepôt for the commerce carried on between Bagdad and Teheran. The tombs of Avicenna, and of the poets Attard and Aboullasif, attract annually a great concourse of pilgrims. Pop. 33,000.

Pnp. 33,000.

Ham'adryad, n.; Eng. pl. Ham'adryad; Lat. pl. Hamdryadz. [Lat. hamadryaa; Gr. amadryas; Fr. hamadryad.] (Myth.) A wood-nymph, supposed by the Greek and Roman poets to live and die with the teo which she was attached.

Ham'ah, (the Hamath of Scripture.) [Gr. Epyphania.]

Hamian, (the Habath of Scripture.) (the Lyppmanus.), A fortified city of Syria, on the Orontes, 111 m. N.E. of Damascus. Manuf. Silks, cloths, girdles, turbans, &c. Pop. (1897) about 45,000.

Hamamelids.'ceae, n. pl. [From hamamelis, the typi-

cal genus.] (Bot.) The Witch-hasel family, an order of plants, alliance Umbellales. Drag. A 2-celled, not didymous fruit, without a double epigynous disc, and imbricated corolla, alternate leaves with stipules, and anthers with deciduous valves. They consist of small trees and with deciduous valves. They consist of small trees and shrubs, having the following characters:—Leaves alterate, with deciduous stipules. Flowers perfect or unisexual; calyx superior, 4- or 5-lobed; petals 4 or 5, with an imbricated sestivation, or altogether wanting; stamens 8, half of them sterile, and placed opposite to the petals, and half fertile, and alternate with them; anthers intorse; ovary inferior; styles 2. Fruit capsular, with a loculicidal dehiscence; seeds penduious and albuminous. These plants are natives of North America, China, Japan, the central parts of Asis, Madagascar, and South Africa. Hamamelis Virginica, the Witch-hasel, a curious little tree not uncommon in our forcets, puts forth tyellow flowers from October to February. It proits yellow flowers from October to February. It duces only edible seeds; and its bark and leaves pot astringent properties.

Ha'mam. (Scrip.) A favorite of Ahasuerus, king of Persia. In order to revenge himself upon Mordecai the Jew, he plotted the extermination of all the Jews in the kingdom; but in the providence of God he was thwarted by Esther, fell into disgrace with the king, and wrought his own ruin and the upbuilding of the Jews, B. C. abt. 485.

Jews, B. C. abt. 485.

Ha'mate, a. [Lat. hamatus.] Hooked; hamous; curved at the knee into a hook.

Ha'mated, a. Hooked; set with hooks.

Hamboto. See Amaro.

Hamblem, in Michigun, a post-office of Bay co.

Hambleton, in Michigun, a post-office of Talbot co.

Hamblum, in Indiana, a post-office of Talbot co.

Hamburg, a free State of the German Empire, the territories of which comprise the city of Hamburg, with its suburbs, the district of Geest, and the bailiwicks of Bergedorf and Ritzebüttel. The little state is of Bergedorf and Ritzebüttel. The little state is bounded on all sides by Holstein, except on the S. and S.W., where the Elbe separates it from Hanover. Area, 8.W., where the Elbe separates it from Hanover. Area, 148 sq. m. Desc. Besides the Elbe, it is watered by the Alster and Bille. It is generally a level plain, not particularly fertile, except in the Vierländer dist, to the S.E. A good deal of land is devoted to fruit, flowers, and vegetable gardens, and the entire country round the city of Hamburg is dotted over with flourishing villages and plantations. Php., 1876, 388,618, including a garrison of two battalions of German soldiers. Cup. Hamburg.

HAMBURG, the principal commercial city, emporium, and sea-port of Germany, cap. of above State, and of the three existing Hanse towns and former imperial cities of that country, is situated on the N. bank of the Bibe, at the point where it receives the Alster, 60 m. S.B. from its mouth, 60 N.E. of Bremen, and 36 m. S.W. of Lübeck. The city is oval-shaped, several miles in circuit, and was formerly fortified, but its ramparts now serve as public walks. The principal ornament of H is the Alster. This river rises in Holstein, some miles above the city, and spreads out into a wide lake, which flows through deep broad ditches, some of which encircle the ramparts, while others intersect the city in all directions, forming numerous canals navigable for barges of considerable size. This lake is called the Outer Alster. The Inner Alster is a large square sheet of water, conburg. considerable size. This lake is called the Outer Alster. The Inner Alster is a large square sheet of water, connected with the former by a narrow channel, spanned by a single arch. On three sides of the Inner Alster there are broad walks, with rows of trees, the favorite resort of the Hamburgers of sil classes and all ages. The best houses in the city are to be found in its immediate neighborhood. The Jungfernsteig occupies its S. and W. sides. The whole of H. has been very nearly rebuilt since the disastrous fire of 1842, which raged for 3 days, and destroyed a large portion of the city. The city proper is divided into five parishes, those of Saints Peter, Nicholas, Catherine, James, and Michael, the churches of which are among its chief architectural embellishments. The church of St. Michael is the most interesting in the city. It is 245 feet long, by 150 feet broad, and has a tower 456 feet in height. Its interior is capable of seating 6,000 persons; it has a fine altar-plece, an organ with 5,600 pipes, and a large crypt supported by 60 granite columns. There are about 20 other places of worship of various denominations. Among the other noticeable edifices are the New Exsupported by 69 granite columns. There are about 20 other places of worship of various denominations. Among the other noticeable edifices are the New Exchange, the Rathhaus, the Gymnasium, many noble asylums, hospitals, and schools, one of the finest theatree asyluma, hospitals, and schools, one of the finest theatres in Germany, the city library, observatory, museums, &c. The arm of the Elbe opposite the city is not very wide, but it is deep enough for vessels of large burden. The maintenance of floating lights, buoys, &c., for the safe navigation of the river, costs the city a large sum yearly. The tide rises at the quays from 5 to 12 ft., and flows about 20 Eng. miles above the city. H. is perhaps the greatest commercial city on the European continent. She owes this distinction principally to her situation. The Elbe, which may be navigated by lighters as far as Melnick in Bohemia, renders her the entrepôt of a vast extent of country. H. has, besides, a water-communication by means of the Spree, and of artificial sluices, with all the country between the Elbe and the Oder, and cation by means of the Spree, and of artificial sluices, with all the country between the Eibe and the Oder, and between the latter and the Vistula, so that a considerable part of the produce of Silesia destined for foreign markets, and some even of that of Poland, is conveyed hither. There are no docks or quays at Hamburg; and it is singular, considering the great trade of the port, that none have been constructed. Vessels moor in the river opposite the city, though the largest class of vessels sometimes load and discharge by means of lighters at Cuxnaven, a few miles further down. The shipping of H. is nearly eight times as large as that of Belgium,

and nearly double that of Denmark and Belgium, in 1877. H. is joined by railways with the principal towns of the continent of Europe, and its trade embraces every article that Germany either sells to, or buys from, foreigners. The flourishing state of the commerce of this city is owing, to a great extent, to the absence of almost all fiscal impositions on the liberty of intercourse. The government of H. is very similar to that of Bremen; the executive power is vested in a senate of 18 members. Manuf. Sugar, tobacco, soap, woollen. cotton, and silk fabrics, gold, silver, and copper wares, ropes, anchors, sail-cloth, surgical and musical instruments, &c. Hist. H. was founded by Charlemagne toward the close of the 8th century. After the extinction of his dynasty, it became successively subject to the dukes of Saxony, and the counts of Holstein. Early in the 13th cent. it joined with Lübeck in the formation of territory; and acquired the right to legislate for itself in 1269. In 1528 it adopted Lutheranism. It was long subject to attacks from the Dance, but in 1768 it purchased a resignation of all claims upon it from Denmark, and a security against future attacks. In 1806 it was occupied by the French, and, in 1810, made the capital of the dept. Bouches de l'Elbe. It suffered severely from the exactions of the French troops under Marshal Davoust; but at the peace it was partially indemnified for its losses, and has since gradually retrieved its former flourishing condition. In 1881, by treaty signed under compulsion of Prince Bismarck, and which went into effect from October 1, 1883, H. entered into the Zollverein or Customs-Union of the German Empire, and so lost the greater part of its advantages as a free port. For this less H. was in part compensated by certain concessions from the Empire. The port of Hamburg possesses wome of the largest and finest d nearly double that of Denmark and Belgium in was in part compe sated by certain concessions from the Empire. The port of Hamburg possesses some of the largest and finest ocean steamers and sailing vessels affoat. Pop. (1597) shout 360,000

ocean steamers and saling vessels aftest. Pop. (1897) about 360,000.

Ham'burg, in Ala, a p.-vill. of Perry co., abt 70 m. W. by N. of Moutgomery; in Ark., a p.-town, cap. of Ashley co., abt. 75 m. E.S.E. of Camden; in Cossa., a p.-vill. of New London; a p. d. of Madison co; in Ille., a p.-vill. of Cahoun co., on the Mississippi river, abt. 90 m. S.W. of Springfield; in Isd., a vill. of Clark co., abt. 8 m. N. of New Albany; a P. O. of Franklin co.; in Iosea, a city of Fremont co.; in Mich., a p-town and twp. of Livingston co., abt. 25 m. S.S.W. of Trenton.

Ham'burg, in Mississippi, a post-village of Franklin co., on the Mississippi, a post-village of St. Charles co., on the Mississippi and M. K. & T. R. R., about 30 m. W. of St. Louis.

Ham'burg, in New Jersey, a post-village of Sussex co., about 13 m. N.E. of Newton.

Ham'burg, in New Jersey, a post-village and township

Ham'burg, in New York, a post-village and township of Eric co., 10 m. from Buffalo. The village has a population of about 1,400 and was formerly called Hamsune-

ON-THE LAKE

ON-THE-LARE,

Haun'burg, in Ohio, a post-village of Fairfield co, about 28 m. S.E. of Columbus.

—A village of Preble co., about 30 m. W.N.W. of Dayton.

Hann'burg, in Penseytensia, a post-borough of Berks co., on the Schuylkill river, about 15 m. above Breading.

Pop. (1837) about 2,450.

—A village of Clinton co., about 6 m. S. of Lock Haven.

—A village of Mercer co., about 10 m. N.W. of Mercer.

Hann'burg, in South Carolina, a post-village of Aiken co., located on the Savannah river, opposite the city of Augusta, Ga.

Hann'burg, in Tensessee, a post-village of Hardin co.

co., located on the Savannan river, opposite the city of Augusta, Ga.

Ham'burg, in Tensessee, a post-village of Hardin co., on the Tennessee river, about 15 m. S. of Savannah.

Ham'burg, in Virginia, a P.O. of Shenandoah co.

Ham'burg, in Virginia, a township of Vernon co.

Ham'burg-white, n. (Puinting.). A color of great power and depth, rather purplish or inclining to crimson; it dries with extreme difficulty, but differs in on other essential quality from other cochineal takes.

Ham'dem, in Connecticus, a post-village and township of New Haven co. Pop. of twp. (1897) about 4(10).

Ham'dem, in New York, a post-township of Delaware co., about 4 m. 8. by W. of Delhi. Pop. (1890) 1,507.

Ham'den, Junetion, in Ohio, a post-village of Vinton co., shout 70 m. W. S.W. of Marietta.

Hame, w. Home, in sld English and Scottish parlance.

"As been fee hame wi' lades o' treaure."—Burna.

Hamelm, a fortified town of Prussia, prov. Hanover,

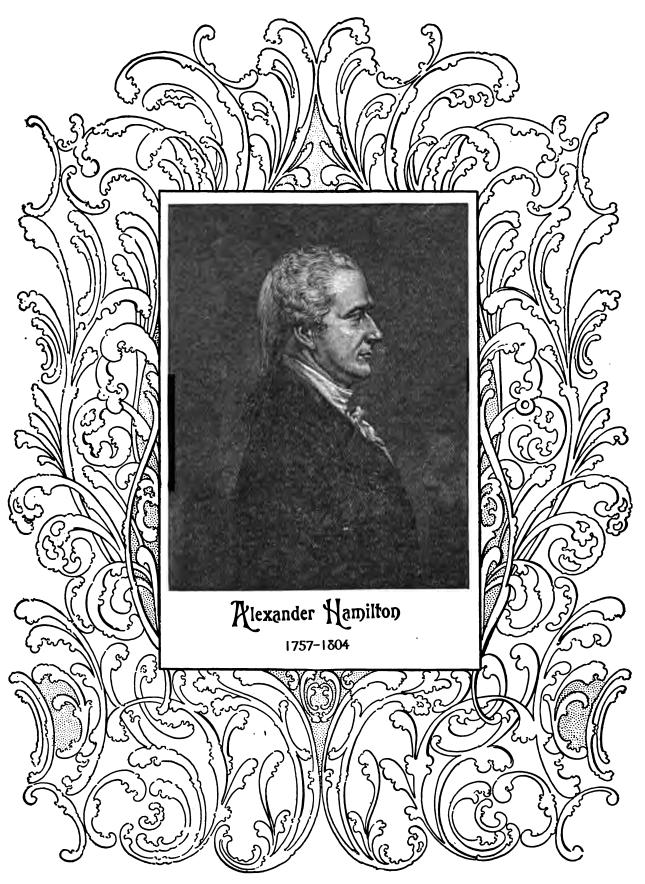
\*\*Has'melm, a fortified town of Prussia, prov. Hanover, at the junction of the Weser and Hameln, 24 m. S.W. of Hanover. Mansy. Tobacco, hats, and wouldens. Pop. (1897) about 9.625.

\*\*Has'mmer, in North Carolina, a post-office of Caswell co. Has'mmer, in North Carolina, a post-office of Caswell co. Has'mmer, in South Carolina, a post-office of Marion co. Has'mmersville, in Ohio, a post-office of Marion co. Has'mmersville, in Ohio, a post-village of Brown co., about 33 m. E.S.E. of Cincinnati. Pop. 642.

\*\*Has'mmerville, in Pensylvania, a vill. of Columbia co. Has'mmerville, in Pensylvania, a vill. of Columbia co. Has'mmerville, in Tensylvania, a vill. of Columbia co. Has'mmerville, in Columbia co. Has'me

(Zobi.) a book.

Hamil'ear, the name of several Carthaginian generals, the most famous being H. Barca, the father of Hamibal. In B. c. 247 he was sent to command in Sicily, and held his ground there for six years against all the efforts of the Romans, who had conquered the island. Peace being made, and the first Punic War ended, H. after subduing the mercenary troops in his own country, went to Spain, and conquered or acquired great part d



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It. Mannial, then a boy accompanied him. H. was Killed in a battle with the Yestomes, z. C. 230.

Hamy Hoes, Alexanders, a distinguished American officer and legislator in the war of Independence, was born in 1767, at Newls, W. Indies. While a student of Columbia College, at the age of 17, he published several essays concerning the rights of the colonies, which were accessed by the property of the control of

of the warmest admiration, H., who excelled equally as a writer and a speaker, enjoyed among his contemporaries, both friends and foes, a reputation for sterling ability.

Hamm'liton, Anthony, Count de, a courtier and man of letters in the 17th cent. He was descended from an ancient Scotch family, but B. in 1646, in Ireland; from whence he was taken to France, when a child, by his parents, who were attached to Charles II. When James II. was obliged to contend for his crown in Ireland, he gave H. a regiment of infantry, and made him governor of Limerick; and after the ruin of the royal cause, he accompanied James to France, where he passed the rest of his life. His wit and talents secured him admission into the first circles; and he n. at St. Germain, in 1720. —H. is chiefly known as an author by his Memoirs of Counted Grammont, a lively and spirited production, exhibiting a free and faithful delineation of the voluptuous court of Charles II. His other works are, Poems and Reisy Tuzs, which, as well at the Memoirs, are in French, and display elegance of style with fertility of invention.

Mil. & St. Paul R.R.

Hamilton, Sir Milliam, Bart, a distinguished Scottish
metaphysician, B. at Glasgow, 1788, studied at Oxford,
where he took first-class honors. In 1813 he was called to
the Scottish bar; and in 1821 he was appointed professor
of Universal History in the University of Edinburgh; —
but this chair was little more than an honorary appoint
ment, and in 1836 he obtained the office for which his
tastes and his studies pre-eminently qualified him—
the chair of Logic and Metaphysics, —which he filled
with such lustre as to have regained for Scotland its
former distinction in the field of metaphysics. In 1816
former distinction in the field of metaphysics in the Great Carlotte, a post-village of Gage co.

Hamilton, in New Jorse,
a township of Fillmore co.

Hamilton, in New Jorse,
a township of Alantic co,
ou the Great Egg Harbor river.

A township of Mercer co.

Hamilton, in New Jorse, a N.E. co.; crea, about 1,764
metaphysics have
a dilliam award must be given to his collected edition of
the works of D. Thomas Reid, published as ismilar award must be given to his collected edition of
the works of Dugald Stewart — the publication of
which began in 1834. His Lectures on Metaphysics have
been published since his death, and these abundantly
evince, that, whatever differences may hereafter agitate
the schools as to the success or failure of some of his
carlotte, and white and the success or failure of some of his
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carlotter, and the success of failure of some of his
carlotter, and the success of failure of some of his
carlotter.

Hamilton, in Miscissippi, a post-village of Caldwell co.
abo Hamilton, Sir WILLIAM, BART, a distinguished Scottish the schools as to the success or failure of some of his apeculations, his comprehensive grasp, his inexorable analysis, his prodigious learning, truth, and honesty of dealing with the adherents of every system, will secure a universal and lasting homage. The prominent results of his labors in philosophy reduce themselves to three heads: his profound vindication of the doctrine of comheads: his profound vindication of the doctrine of common sense; his elaborate discussion of the theory of perception in relation to our belief in an external world;—A township of Franklin co.—A township of Jackson co.—A township of Marren co.—A township of Warren co.—Hamilton, in Perseylectica, a township of Adams co.—A township of Franklin co.—A t

Hamilton, a town of Scotland, in Lanarkshire, at the junction of the rivers Clyde and Avon, 35 miles S.W. of Edinburgh, and 12 N.W. of Lauark. Manuf. Cottons. H. contains a fine palace, belonging to the ducal family of the same name. Pop. (1897) about 25,000.

Hamilton, in lowe, a central co.; area, about 576 aq. m. Rivers. Boone and Skunk rivers. Surface, undulating; soil, fertile. Cap. Webster City. Pop. (1895) 18,314.

A township of Decatur co.

A township of Hamilton co.
A post-village of Marion co., about 16 m. S.E. of Knox-

VIII.

Hamilton, in Kansas, a post-village of Greenwood co.

Hamilton, in Kestucky, a post-village of Boone co.,
on the Ohio river, about 48 miles below the city of
Cincinnati, Ohio.

Hamilton, in Massichusetts, a post-town and township of Essex co., on the Ipswich river, about 22 m. N. by E. of Beston. Pop. (1895) 961.

Hamilton, in Michigan, a township of Gratiot co.

—A township of Van Buren co.

Hamilton, in Missesofa, a post-office of Fillmore co.

—A flurishing village of South on boarded on the Chile.

Hamilton, in Minnesota, a post-office of Fillmore co.

—A flourishing village of Scott co., located on the Chic.

Mil. & St. Paul R.R.

Hamilton, in Mississippi, a post-village of Monroe co.,
about 12 m S. of Aberdeen.

ou the Great Egg Harbor river.

—A township of Mercer co.

Hamilton, in New York, a N.E. co.; crea, about 1,764
sq. m. Rivers. Racket, Black, Hudson, and Sacondaga
rivers. Surface, elevated; soil, not fertile. Min. Iron.
Cap. Sageville. Pop. (1890) 4,762.

A pest-village and kownship of Madison co., about 28 m.
S.W. of Utica. It is the seat of the Madison University,
an excellent educational institution founded in the
year 1820. Pop. of village (1890) 1,744.

Hamilton, in Ohio, a S.W. co., adjoining Indiana and
Kentucky; cree, about 400 sq. m. Rivers. Ohio, Greet
and Little Miami, and Whitewater rivers, and Mill
creek. Surface, undulating; soil, fertile. Cap. Cincinnati. Pop. (1890) 374,573; (1897) about 402,500. It is
the most populous co. in the State.

—A city, cap. of Butler co., on the Great Miami river,
about 20 m. N. of Cincinnati. It is well built, and possesses considerable manufacturing and commercial
interests. Pop. (1897) about 20,000.

—A township of Franklin co.

—A township of Jackson co.

—A township of Varren co.

—A township of Warren co.

Hamilton, in Transsee, a S.S.E. co., bordering on Georgia; area, about 575 sq. m. Risers. Tennessee irver, and some smaller streams. Surface, diversified, a spur of the Cumberland Mountains bounding it on the N.W. and W.; soil, fertile. Cap. Chattanoga. Pop. (1880) 53,482.

(1800) 53,482. **Hamilton**, in *Texas*, a N. central co.; area, about 900 sq. m. *Ricers*. Lampasss and Leon rivers, and several smaller streams. *Surface*, diversified; soil, fertile. *Cap.* Hamilton. *Pop.* (1890) 9,313.

A post-village co.

A post-village, cap. of Hamilton co., about 95 m. N. by

"The rude forefathers of the Assolut sleep." — Gray.

Ham'let, a celebrated Danish prince, whose story is told by Saxo-Grammaticus, and rendered familiar to all acquainted with the English tongue by the admirable tragedy written by Shakspeare.

Ham'let, in Himosia, a post-village of Mercer co., about 18 m. S.S.W. of Invenport, Lown.

Hamilet, in Hodgan, a post-village of Stark co.

Hamilet, in Rhode Island, a village of Providence co., about 16 m. N. of Providence.

Hamilim, in Kansas, a post-village of Brown co., about 37 m. N.W. of Atchison.

Hamilim, in Kansas, a post-office of Calloway co.

Hamilim, in Kansas, a post-office of Calloway co.

Hamilim, in Kansas, a township of Mason co.

—A township of Eaton co.

—A township of Eaton co.

Hamlin, in New York, a post-town of Monroe co. Pop. (1890) 2338.

Hamilin, in Permaylcania, a post-office of Lebanon co.

—A township of McKean co.

Hamilin Grove, in Iona, a post-township of Audu-

Hamilinton, in Pennsylvania, a P. O. of Wayne co.
Hami'me, a trading-town of Belgium, prov. E. Flanders,
4 m. N. of Termond. Manuf. Soap, almond-oil, canvas,

and cordage.

and cordage.

\*\*Mam'mer, n. [A. 8. and L. Sax. hamer; Ger. and Dan. hammer; Icel. and O. Ger. hamar; Sunsk. ham, to strike.] A tool used by mechanics, which consists of an iron head fixed crosswise upon a handle. The H., however, employed in the useful arts vary greatly in form, and the weights of individual examples may be estimated from several toos to the fraction of an ounce. The H. used from several tons to the fraction of an ounce. The H. used by blacksmiths are of several kinds. Among others are the about-stedge, which is the largest of all, and is held by both hands at the furthest end of the handle, and being swung at arm's length above the head, is made to fail heavily upon the work. The up-hand stedge is not so large, but is used with both hands, and seldom raised above the head. The hand-H is the smallest, and may be used with one hand at the anvil. The class of H. called riveting-H have the handle fixed to them by passing it through a hole in the head, where it is made to fit or be wedged firmly; the face is formed of steel, as well as the riveting end, and welded to the iron. These H. are used by carpenters, smiths, engineers, and nu-It or be wedged firmly; the face is formed of steel, as well as the riveting end, and welded to the iron. These M. are used by carpenters, smiths, englineers, and numerous artisans, varying in size and form according to the purpose for which they are required. A variety of M. having two claws, called class-H., are much used by carpenters and other mechanics, as the claw, together with the handle, forms a powerful lever for drawing out nails, &c. The largest H. are those used in the manufacture of iron. In this form they are not mere tools, but machines moved by steam or some other power. There are many varieties. Froming's forge-H., which is used for heavy castings, as well as for edge-tools, knives, files, &c., may be moved either by hand, water or steam power. A heavy hammer-head with a guider-rod, cones, and vertical spring, accomplish the work by means of a driving-shaft made to rotate by any source of power. In Hutton's power-H. the weight is raised by a strap or chain, attached to a drum or pulley on an axis; when the blow is struck, the momentum is made to assist in raising the H. again. This H. is much used in beating iron and steel between pairs of dies. The frictional action-H. can be worked by any continuously revolving power-shaft, and can be made to hammer 150 blows per minute with a very heavy hammer-head. Cotton's air till-H. and Waterhouse's compressed-air forge-H. for light work in a smith's shop, are also useful varieties; and there are many more. The powerful machine called the steam-H. was originally invented by Mr. Nasmyth, in 1842. Steam-H. since that time have received many minor improvements in their construction. In some

cases the H-block is a sort of plunger, working in the cylinder, instead of a heavy mass suspended from the piston-rod, as the Morrison's H. (Fig. 1040), much used in this country; in some H., the piston-rod and piston are all cast in one piece, while others are so contrived as to increase the space through which the H. falls to the anvil. A class of cheaper and simpler steam-H is also made for certain purposes, either in iron-forging, bolier-riveting, or ore-crushing. Some of the H. now in use are of great weight, and it seems probable, from the magnitude of the works undertaken in iron maunfacture at the present day, that still larger and more powerful H. will be constructed.

(Anat.) The most exterior of the four small bones

(Anat.)
of the ear. The most exterior of the four small bones

Pussery.) That part of the lock of a musket which ends violently upon the percussion-cap when the (Gu

trigger is pulled. That part of the mechanism of a clock which strikes on the gong and proclaims the time. — That part of a piano which, acting in connection with the keys, strikes the wires which produce the tones. ALM MERCH, v. a. To beat with a hammer. — To work, the o

Ham'mer, v. a. To beat wiform, or forge with a hammer.

"I must pay with hommer'd money instead of milled." - Dryden -To work in the mind; to contrive by intellectual labor;

" I cannot do it : vet I'll hommer out."

-v. s. To work; to be busy; to be engaged in contrivance Wilt then still he he

-To be in agitation : to be working.

Slood and revenge are hammering in my head." — Shah Ham'merable, a. That may be worked or shaped

intermete, a. That may be worked or shaped with a hammer.

Intermete heaten, a. (Arch.) A horizontal piece of timber from, or near, that above the feet of a rafter, the object of which is to counteract the tendency of a rafter to an outward thrust. It is only used in Gothic roofs, and is of value as providing a counterbalance to the weight of the rafter.

Isam'mer-cloth, n. The cloth which covers the box of a carriage.

box of a carriage.

Ham'merer, n. One who works with a hammer.

Ham'merfest, a town of Norway, prov. of Finmark, on the island of Qualce, in the Arctic Ocean; Lat. 70° 40° N., Lon. 23° 36′ 43° E. It is only remarkable for being the most northern town of Europe. Pop. 1700.

Ham'merfish, n. Same as Hamkerhad (q. v.).

Ham'mer-harden, v. a. To harden by repeated hammering, as metal in the cold state.

Ham'merhead, Ham'merfish, n. (2001.) See

ZYGENA.

Ham'merman, n.; pl. Hammeren. A hammer

a forgeman.

Ham'mersley's Fork, in Pennsylvania, a post

office of Clinton co.

Ham'mersunith, a town of England, co. Middleesx, on the N. bank of the Thames, 4 m. S.W. of London. H. is principally inhabited by merchants and others whose business calls them daily to the city. A striking feature of H. is the fine suspension bridge across the Thames, which was completed in 1827, at a cost of \$500,000. Pop. of town and parish (1895) 45,400; of the town alone, about 25,000.

Ham'mer-wort, n. [A. S. hamor-wyrt.] (Bot.) See

Hammochry'sos, n. [Lat. hammochrysus.] (Min.) See MICA.

See MICA.

Ham'uneck, n. [Sp. hamaca; of Indian origin, the word hamac, in the language of some of the abortiginal W. India tribes, denoting petsof cotton extending from two posts, and used as beds.] (Naut.) A kind of hanging bed or posts, and used as beds.] (Nast.) A kind of nanging near cot, suspended between trees or posts, or by hooks. They are generally used by sallors on shipboard, where the H. consists of an oblong piece of hempen cloth, having fastened to each end several small lines, meeting in a

grummetoriron ring; these ring; these form the clews. The whole having a mattrees and pillow placed in it, is hoisted up into its place by small ropes small ropes called lanyards,



Fig. 1234. — HAMMOCK.

called langurats, Fig. 1234. — HANNOCK.
and suspended
from hooks in the beams of the ceiling overhead, about from hooks in the beams of the ceiling overhead, about 9 feet asunder. The H forms a very agreeable bed, especially in cold weather; but some little practice is needed at first to get in and out successfully. During the day the H, lashed up tight, with the mattresses and bedding rolled within, are stowed in the netting along the upper edge of the bulwark.

Haummonas set Elver, in Consecticut, enters Long Island Sound between New Haven and Middlesex cos.

Ham'mond, in Indiana, a township of Spencer county.

county.

Hammond, in Louisiana, a post-town of Tangipahos

parish.

Hammond, in New York, a post-town and township of St. Lawrence co., on St. Lawrence river, about 20 m. S. W. of Ogdensburg. Pop. (1890) 1,774.

Hammond, in South Curolina, a P.O. of Horry co.

Hammond, in Wieconsia, a post-village and township of St. Croix co., on the C., St. P., M. & O. R. R., about 16 miles N. E. of Hudson.

Hammond Cormers, in New York, a village of Chempage.

Chemung co.

Ham'mondsburg, in Iosa, a village of Warren co.

Ham'mond's Creek, in Pensylvenia, a village of
Tioga co. Its P. O. is Hambun.

Ham'mondspert, in New York, a post-village of
Hammondspert, in New York, a post-village of
Hammondspellle, in Oko, a p.-vill. of Jefferson co.
Ham'mondspellle, in Oko, a p.-vill. of Jefferson co.
Ham'mondspelle, in Kentucky, a post-village of Atlantic co., att. 30 m. 8.8.E. of Camden.

Ham'orton, in Tennsylvenia, a post-village of Chester co., abt. 32 m. W. by 8. of Philadelphia.

Hammon', Ha'mouns, a. [From Lat. Assessa, a hook.] [I. O. With the end forming a curve; hamulose.

Hammo'den, John, an English patriot, a at London, 1304. He was the head of a weathy family, and was cousin to Oliver Cromwelk. In 1625 he was returned to Parliament for the borough of Grampound. His sympathies were with the popular party, and in 1626 he was one of those who refused to contribute to the general loan required by the king, and was imprisoned. After being unconditionally set free, he began to take an active part in affairs, and his reputation grew rapidly. In 1636 he set the example of refusing to pay the shipmoney, a tax arbitrarily imposed by the king. His refusal was without passion, but firm, —his resolution being to have the question of right tried in his own person. Proceedings were instituted against him, and in the following year the trial took place, which lasted 13 days. The decision was against H., but it made him more than ever the favorite of the people, who felt it as a heavy blow fallen on their liberties. Its tendency was to consolidate the party opposed to arbitrary power, and to hasten the crisis of civil war. H. and other more than ever the favorite of the people, who felt it as a heavy blow fallen on their liberties. Its tendency was to consolidate the party opposed to arbitrary power, and to hasten the crisis of civil war. H. and other members were imprached by the king, who made an unsuccessful attempt to seize them. At the commencement of the war, H. levied a body of troops, and served under Essex. He displayed great ability, vigor, and energy, both as a soldier and as a member of the Committee of Public Safety; but in a skirmish with Prince Rupert, at Chalgrova, June 18th, 1643, he was severely wounded, and died on the 24th.

Hamp deem, in Kossoa, a village of Coffey co., on the Neosho river, about 100 miles 8.8.W. of Leavenworth.

Hampdem, in Massacka, a post-town and township of Penolscot to. Pop. (1887) about 2,500.

Hampdem, in Massacka, at Sw. co., bordering on Connecticut. Area, about 63t sq. m. Riewa. Connecticut. Area,

berland co.

Hampden, in Wisconsin, a thriving township of Columbia co.

Hampden Corner, in Maine, a post-office of Pen

obscot co.

Hampden-Sidney College, in Fryinia, a seminary and post-office of Prince Edward co., about 68 m.
W. by S. of Richmoud. The college was founded in
1783, and has graduated some very prominent men. It
possesses a considerable library.

Hamper, n. (Contracted from Assaper, q. v.) A
large, square basket for conveying things to market,
Ac.: as Abuster of game.

arge, square obsect to conveying things to market, &c.; sa, a Aumper of game.

—v. a. To put into a hamper.

Hamm'poer, s. [Dan. Aamp; Swed. Aampa, hemp; Icel. Aamlade, entangled, as with a rope. See Himp.] A fetter or chain; a shackle; an instrument that binds.

—v. a. To shackle; to put a hamper or fetter upon; to entangle; to ensuare; — hence, to impede in action, motion, or progress; to perplex; to encumber; to embar-rass; as, a poor man hampered with a large family.—To make complicated; to tangle.

"Their homes ed nerves unwind." "Their hampered nerves uswind."— Blackmers.

Hamp'shire, Hann, (more properly Southamptonshire, a S. co. of England, including, also, the Isle of Wight, is bounded S. by the English Channel and the Solent, which cuts off the Isle of Wight; N. by Berkshire; E. by Surrey and Sussex; and W. by Wiltshire and Dorest-shire. Area, including the Isle of Wight, 1,625 sq. m. Desc. H. is distinguished as an agricultural shire, though its sea-coast has also rendered it of considerable importance as a maritime and commercial co. It is traversed by the ranges of the N. and S. Downs and the S.W. nts sea-coast has also rendered it of considerable importance as a maritime and commercial co. It is traversed
by the ranges of the N. and S. Downs, and the S.W.
division of the county is extensively occupied by the
New Forest; but the county is generally well wooded.
Rivers and Harbors. The Loddon, falling into the
Thames; the Anton, the Itchin, the Avon, and the
Boldre Water, which empties near Lymington. These
rivers are navigable for a considerable distance. Along
the coast, and in the Solent, which divides it from the
Isle of Wight, are numerous excellent harbors and roadsteads, of the former of which Portsmouth is the principal. Prod. H. is famous for the breeding of cattle, and
more especially of hogs and sheep, its becon being considered the best in the kingdom. It also produces excellent wheat and abundance of hay; very fine honey, and
large quantities of cider are made. Manyf. Woollen
goods, cloth, shalloons, serges, &c. Mait and leather are
made at Basingstoke. Silk, straw hats, paper; vast quantitles of common salt, and of Epsom and Glauber salts, are
also manufactured. Chief towns. Winchester, Southampton, Fortsmouth, Andover, and Gosport. Pop. (1891)
690,086.

690,086.

Hampshire, in Illinois, a post-village and township of Kane co., about 58 miles W.N.W. of Chicago. Pop. of village (1890) 696.

Hampshire, in Iosa, a township of Clinton co.

Hampshire, in Massachusetta, a W. central co.; area, about 572 sq. m. Risers. Connecticut, Chicopee, and

Westfield rivers. Surface, uneven; sed, fertile. Cap.
Northampton. Pop. (1896) 54,713.
Hismap shire, in New York, a P. O. of Stemben co.
Hismapshire, in New York, a P. O. of Stemben co.
Hismapshire, in West Virginis, a N.E. co., bordering
on Mayland and Virginis; evea, about 550 sq. m.
Risers. Cacapon, and the two main branches of the
Potomac river. Surface, highly diversified; sed, fertile.
Mis. Coal and iron in abundance. County-town. Rosancy.
Pp. (1890) 11,419.
Hismapshire, New. See New Hampshire.
Hismapshire, New. See New Hampshire.
Hismapshire, a picturesque village of England, county
Middlesex, now forming an outlying district of London.
It stands on the crest of a hill, 460 feet abore sea-level,
in the midst of an extensive heath covering about 250
acres, which commands a superb view of the surrounding counties. H. Heath is a favorite pleasure resort of
the Londoners, who assemble here on Bundays and helidays in teas of thousands. H. possesses many flae, eld,
in istoric mansions, and has for a couple of centuries bean
colobrated as the place of residence of some of the most
eminent of the English poets. Pop. about 20,000.
Hismap ratend, in New Hampshire, a post-village of Carroll
co., about 56 m. N.N.W. of Annapolis.
Hamp patend, in Virginia, a post-vill. of King George
co., about 56 m. N.N.E. of Bichmond.
Hamp patend, in Virginia, a post-vill of King George
co., about 56 m. N.N.E. of Richmond.
Hamp fatend, in Virginia, a post-vill of King George
co., about 56 m. N.N.E. of Richmond.
Hamp patend, in Virginia, a post-vill of King George
co., about 56 m. N.N.E. of Richmond.
Hamp patend, in Virginia, a post-vill of King George
co., about 56 m. N.N.E. of Richmond.
Hamp patend, in Virginia, a post-vill of King George
co., about 56 m. N.N.E. of Richmond.
Hamp patend, and patendia collection
of bletorical paintings, and several cartoons by Rafaelle.
Pop. 5500.

Hamp'tom, in Arkaneas, a post-village, cap. of Calhoun co., about 80 m. S. of Little Rock.

Hamp'ton, in Arkment, a post-village, cap. of Calhom co., about 80 m. 8. of Little Rock.

Hamp'ton, in Connecticut, a post-township of Windham co., abt. 35 m. 8. by N. of Hartford.

Hamp'ton, in Georgia, a post-village of Henry co., on the Central B. B. of Georgia, a post-village and township of Rock Island co., on the Mindshippi river, about 12 miles above Davenport, lowa.

Hamp'ton, in Isea, a post-town, cap. of Franklin co., about 90 m. N. E. of DesMoines. Pop. (1895) 2,557.

Hamp'ton, in Mindshipen, a township of Bay co.

Hamp'ton, in Mindshipen, a township of Bay co.

Hamp'ton, in Mindshipen, a post-town and township of Dakota co., about 11 m. 18. E. of Leavenworth, Kanesa.

Hamp'ton, in Mindshipen, a post-village of Platte co., about 14 m. E. E. of Leavenworth, Kanesa.

Hamp'ton, in New Hempshire, a post-town and township of Rockingham co., about 50 miles S.E. of Concord.

Pop. 1,330.

Hamp'ton, in New Jersey, a village of Burlington co. Hamp'ton, in New York, a village of Oneida co.

—A post-town of Washington co.

Hamp'ton, in Permeytenia, a post-village of Adams co., about 20 miles 8.8. W. of Harrisburg.

co., about 20 miles S.S.W. of Harrisourg.

Hampy tom, in Virginia, a post-village, cap. of Elizabeth City co., on the James river, 96 miles S.E. of Richmond; was almost entirely burnt during the Civil War.

A Normal and Agricultural Institute was established here in 1868, under the auspices of the American Missionary Association, for the purpose of preparing youths of the South without distinction of other Civil Wars. of the South, without distinction of color, for th of organizing schools in the Southern States. Here is also an extensive Soldier's Home, beautifully located within sight of Hampton Roads. Pop. (1897) about

Hamp'tomburg, in New York, a township of Orange

2,000.

Hamp'tomburg, in New York, a township of Orange county.

Hamp'tom Falls, in New Hampshire, a post-township of Rockingham co. Pop. 6:23.

Hamp'tom Roads, in Virginia, an arm of Chempeake Bay, at the mouth of James river, between Hampton and Norfolk. The channel is commanded by Fortress Monroe, on Old Point Comfort, and by Fort Calboun. Light-houses have been erected at different points of this harbor, which is one of the safest and most capacious on the Atlantic coast.

Hamp'tomville, in N. Carolina, a post-village of Yadkin co., about 130 m. W.N.W. of Raleigh.

Hamm'shaekle, (\*Add'4) v. a. To bind, secure, or fasten by attaching the head with a cord, &c., to one of the forelegs; as, to kams-hackle a mule; — hence, to curb, confine, or restrain.

Hamm'ster, n. (Zod.) The Criocius frameniarius, a rodent animal of the rat tribe, distinguished by two immense cheek-ponches, which will hold a quarter of a pint, and by its remarkable instincts. It inhabits the sandy districts of the N. of Europe and Asia, Austra, Sibesia, and many parts of Germany, Poland, &c., and is very injurious to the agriculturist on account of the quantity of grain it devours. The general size of the H is nearly that of a brown or Norway rat, but it is of a much thicker form, and has a short and somewhat hairy tail.

Ham'string, n. One of the tendons of the ham.

"A player, whose conceit lies in his hamsering."—Saels.

-c. a. (inp. and pp. Hamstrung or Hamstrungen.) To cett

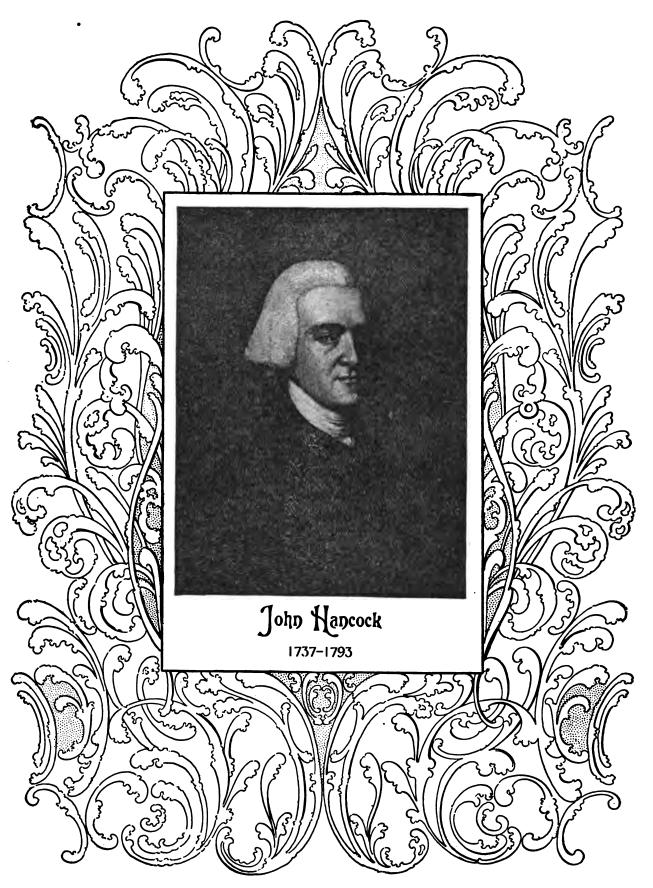
"A player, whose conceit lies in his hamstring."- Sheh e.a. (imp. and pp. HAMSTRUNG OF HAMSTRUNGED.) To cut the tendons of the ham, and thus to laune or disable. Ham'trame, in Michigan, a township of Wayne

County.

Haim ulese, a. [From Lat. hamus, hook.] Having a small hook at the eud; hamose.

Ham. (Hat.) The name of the most celebrated of the 2 dynasties of China (206 B. C. to 220 A. D.), founded by Kun-tsu. The number and character of its heroes and

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literature are superior to those of most other periods, and to this day the term Sms of Hun is the favorite appellation of the Chinese among themselves.

Ham'onek, in New York, a post-town and township of hillsburough co. Pop. (1897) about 650.

Ham'onek, in New York, a post-town and township of Delaware co. Pop. of village (1890) 1,279.

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Ham'onek, in New York, a post-town and township of Delaware co. Pop. of village (1890) 1,279.

Ham'onek, in New York, a post-town and township of Delaware co. Pop. (1890) 1,249.

Ham'onek, in New York, a post-town and township of Main In New York, a post-town and township of Main In New York, a post-town and township of Main In New York, a post-town and township of Main In New York, a post-town and township of Main In New York, a post-town and township of Main In New York, a post-town and township of Main In New York, a post-town and township of Main In New York, a post-town and township of Main In New York, a post-town and township of Main In New York, a post-town and township of Main In New York, a post-town and township of Main In New York, a post-town and township of Main In New York, a post-town and township of Main In New York, a post-town and township of Main In New York, a post-town and township of Main In New York, a post-town and township of Main In New York, a post-town and township of Main In York In New York, a post-town and township of Main In York In New York, a post-town and township of Main In York In New York, a post-town and township of Main In York In New York, a post-town and township of Main In York In New York, a post-town and township of Main In York In New York, a post-town and township of Main In New York, a post-town and township of Main In New York, a post-town and town

so named

Hamau, (ha'now.) a town of Prussis, on the Kintzig,
near its confluence with the Main, 11 miles B. of HesseCassel, and the same distance B.E. of Frankfort-on-theMain. Mansi. Watches, jewelry, camlets, hats, silk
stuffs, carpets, leather, glores, and hosiery, carriages, &c.
Pop. 17,500.

Hamce, Hameh, n. [See Haunch.] (Arch.) The end
of an elliptical arch, which is an arc of smaller circle
than the scheme or central part of the arch.
(Nast.) The fall of the fife-rail down to the gangway.

(Nast.) The fall of the fife-rail down to the gangway.

Ham'cock, JOHN, an American stateman, B. in Quincy, Mass., 1737. He graduated at Harvard College in 1757, and entered the counting-house of an uncle, on whose death in 1764 he received a large fortune, and became a prominent merchant. After the affray known as the "Boston Massacre," in 1770, and at the funeral of the slain, he delivered an address so glowing and fearless in its reprobation of the conduct of the soldiery and their leaders, as to greatly offend the governor, who endeavored to seize the person of 'H., who was a member, and afterwards president, of the provincial Congress at Concord. This is said to have been one of the objects of the expedition to Concord which led to the first battle of the revolution. In 1775, H. was chosen president of the expention to Concord which led to the first extreof the revolution. In 1775, H. was chosen president of the Continental Congress, and in 1776 signed the Declaration of Independence. In 1780 he was chosen first governor of the State of Massachusetts; to which office, with an interval of two years, he was annually resisted till his death, 1793.

with an interval of two years, he was annually redicted till his death, 1793.

Han'cock, Winyield Scott, an American military commander, B. in Montgomery co., Penn., 1824, entered West Point Academy in 1840, graduated in 1844, and received his commission of 2d lieutenant. He served during the Mexican war, was promoted for his gallantry, and having filled several subordinate poets, was made assistant quartermaster-general, which rank he held at the outbreak of the civil war. In 1861 H. was appointed a brigadier-general of volunteers, and attached to the army of the Potomac. He accompanied Gen. McClellan's army to the peninsula in 1862, and distinguished himself both before Yorktown and Williamsburg. At the battle of Fredericksburg, in Dec., 1862, Gen. H. commanded a division of the 2d Corps, which suffered most severely, and for his services on this occasion he received his commission as major-general. He took part in the battles of Chancelloreville and of Gettysburg in 1863, and in one of the many struggles which took place during that most eventful campaign was severely wounded. In 1868, H. was appointed by Pres. Johnson to the command of the S. W. military dist., but his appointment was not indorsed by the senate. In June, 1880, he became the unsuccessful Democratic nomines for President. At the time of his p. at New York, February 9, 1886, he commanded the Department of the East. Ham'cock, in Geo., a N.E. cent. co.; area, 474 sq. n... Rivers. Oconee, Ogeechee, and Buffalo creek. Surface, chalcesiony, opal, kaolin, &c. Cop. Sparts. Pop. (1890) 17,149.

17,149.

Han'cock, in Illinois, an extreme W. co., adjoining Iows and Missouri; area, about 769 sq. m. Ricers. Mississippi river, Crooked creek, and some smaller streams. Surface, undulating; soil, very fertile. Cap. Cartinage.

Surjace, undulating; sout, very lettile. Cop. Carmage. Pop. (1891) 31,907.

—A township of the above co.

Han'cock, in Indiana, a central co.; area, about 307 aq. m. Rieers. Blue river, and Sugar creek. Surjace, mostly level; soil, fertile. Cop. Greenfield. Pop. (1890)

mostly level; sou, levule. Cap. Greenheid. 201. 17.82.

—A post-office of Harrison co.

Ham'cock, in lova, a N. central co; crea, abt. 576 sq. m. Riers. Iowa and Boone rivers. Surface, diversified; soil, fertile. Cap. Concord. Pop. (1885) 11.141.

Ham'cock, in Kenticky, a N.W. co, bordering on Indiana; crea, about 200 sq. m. Rivers. Ohio river, and Blackford and Panther creeks. Surface, undulating; soil, fertile. Cap. Haweville. Pop. (1890) 9.214.

Ham'cock, in Maine, an E. co, bordering on the Atlantic coan; crea, about 1,650 sq. m. Rivers. Penobecot, Union and Narraguagus rivers, besides numerous smaller streams and lakes. Surface, diversified; soil, fertile. Cap. Ellsworth. Pop. (1890) 37,312.

—A post-town and bownship of the above co., at the head of Frenchman's Bay, about 75 m. E. by N. of the city of Augusta. Pop. (1890) 1,190.

Ham'cock, in Maryland, a post-village of Washington co., on the Potomac river, about 125 m. W.N.W. of Baltimore. Pop. 815.

timere. Pop. 815.

Ham'cock, in Massachusetts, a post-town and township of Berkshire co.

of Berkshire co.

Han'cock, in Michigan, a post-village and township of Houghton co., about 1 m. north of Houghton. Pop. of village (1894) 1,662.

Han'cock, in Mississippi, a S. co., bordering on Louisiana and the Mississippi Sound; area, about 594 sq. m. Eisser. Pearl and Wolf rivers. Surface, level; coil, sterile. Cap. Bay St. Louis. Pop. (1890) 8,318.

HAND

Ham'cock, in Vermont, a post-town and township of Addison co.

Ham'cock, in Wisconsin, a post-town and township of Addison co.

Ham'cock, in Wisconsin, a post-town and township of Addison co.

Ham'cock, in W. Virginia, an extreme N. co., adjoining Onlo and Pennsylvania; area, abt. 92 sq. m. Bisers. Ohio river, and some smaller streams. Surface, generally level; soil, fertile. Cap. Fairview. Pop. 6,414.

Ham'cock's Bridge, in New Jersey, a post-village of Salem co., abt. 5 m. 8. of Salem.

Hamd, n. [A.S., L. Ger., Ger., Swed., and D. hand; Dan. hand; Icel. hand. to lay hold of.] The extremity of the human arm, consisting of the palm and fingers, connected with the arm at the wrist. (See below, & Anat. and Physiol.)

—A limb of certain animals which performs a similar office to that of the human hand; as, the hand of a linwk.—A measure of four inches, or of a hand's

office to that of the human hand; as, the hand of a hawk.—A measure of four inches, or of a hands breadth; a palm;—commonly used in cumputing a horse's height; as, a mare of fourteen hands.—A term used in describing the parts of a horse; as, forehand, for the head, neck, and fore quarters; and hind-hand, which includes the rest. It also designates the hand of the rider,—the spur-hand being the right hand, and the bridle-hand the left.—The index of a dial, or that which points the time. "The hands of clocks and shadows of sun-dials" (Locks.)—Bide; quarter; part; direction, either right or left; as, "It is allowed on all hands." (Swift.)—Power of performance; skill; means of making or producing; ability; dexterity; as, a good hand for work.—External action; deed; performance;—hence, manner of acting or performance. "Virgil had his last hand put to it." (Addison.)—A gency of conveyance, or transmission; as, to buy at second-hand, that is, when no longer new or in the original condition.—Possession; power; control; course of execureyance, or transmission; as, to buy at second-hand, that is, when no longer new, or in the original condition.—Possession; power; control; course of execution: act of ownership;—commonly in the plural; as, I place myself entirely in your hands.—An agent; a man employed in agency or service; a laborer; any subordinate person employed as a worker, or one who is skilful and expert at any occupation; as, a field hand, a first hand, a ship's complement of hands; ac.—Style of penmanship: form of handwriting; chirography; as, he writes a good hand, court-hand, an Italian hand, &c.—The cards held at a game; as, he had six trumps in his hand, and took the odd trick.

Hand is used figuratively to express: (1.) A state of action; labor; operation; work;—in opposition to the head, which implies thought and the creative faculty, and the heart, which symbolizes sentiment or feeling; as, the hand of society crushes him.—(2.) Might; supreme power; influence;—chiefly used scripturally.—(3.) Brotherhood; amity; tenderness of feeling; so extend the hand of friendship.—(4) Affiance; contract; as, to sak a womans hand in marriage.

(Nors. Hand is frequently employed in composition to denote an action performed by the hand; as, a hand-barrow, a hand-organ, a hand-saw, a hand-pull, a hand-barrow, a hand-organ, a hand-spike, a hand-gull, a hand-barrow, a hand-organ, a hand-spike, a hand-gull, or inured to control by the hand; tractable, or inured to control by the hand; as, a hand-wolf).

At hand, within reach; near to; approaching; not far distant.

"The bour is at hand when I promised to roam."—Bayby.

"The hour is at hand when I promised to roam." - Bay Under the hand, or pressure of the bridle.

ollow men, like horses, hot of Acad, lake gallant show and promise of their

Make gallant show and promise of their mettle."—Raku.

At all hands, or on all hands, by all parties; from
those on all sides.—At any hand, or at no hand, on any
account; on no account; as, at any hand it must be done.

At the hand of, as a gift, grant, or benefit from, by
bestowal; as, to receive confirmation at the hands of,
a bishop.—By hand, done or performed by man's hand,
without other or extraneous aid; as, cloth woven by
hand, to send a letter by hand.—(Tean hands, inmunity from guilt, or suspicion of guilt; as, he came
out of the affair with clean hands.—From hand to hand,
from one person to another.—Hand to hand, in close
contact; as, they fought hand to hand—Hand in hand,
in unlog; conjointly; with unanimity. in union; conjointly; with unanimity.
"Thus hand in hand through life we il go.

Fit; appropriate; suitable; pat.

'A kind of hand in hand comparison."-Shake.

Hand-made, made by hand; in contradistinction to machine-made; as, hand-made paper.—Hand over hand, by passing the hands consecutively one before or above the other; as, to haul a rope hand over hand.—(Naut.) Swiftly; rapidly; as, to gain upon the chase hand over hand.—Hands off! forbear! hold! keep off! don't touch! — Heavy hand, oppression; tyranny. — In hand, ready or prompt payment; in actual possession; as, "receiving in hand one year's tribute." (Knolles.) — In course of preparation. "What revels are in hand?" (Shaks.)—Mooted, or in agitation. "I had a rougher task in hand." (Shaks.)—Laying on of hands, form of consecrating or blessing persons. — Light hand, amenity, gentleness of touch; as, a light hand on the reins.—Off hand, or out of hand, straightway; at once; without hesitation or difficulty; as, work done out of hand.—Off one's hand or hands, removed from one's care, control or procession. troi, or possession.

"May dunce by dunce be whistled of my he On hand, in present possession; as, she has six marriageable daughters on hand.—Right hand, the place of honor, power, and strength.

"Still in thy right hand carry gentle p

Slack hand, idleness; want of thrift; carelessness.— Strict hand, rigorous government or discipline; severe supervision or control.—High hand, ioftiness of manner supervision or control.—High hand, loftiness of manner or pretension; self-assumption of power or suthority; as, he carries it with a high hand.—To bear a hand, (Naut.) to assist promptly; to hasten up at the moment; as, bear a hand here with the rope.—To be hand and glove, to be on close terms of friendship and familiarity; to be adapted one to another; (said of persons).—To change hands, to hange sides, or owners; as, the business has changed hands.—To clop hands, to pat the hands together loudly, as an expression of applause, joy, or satisfaction.—To come to hand, to be arrived; to have received possession of; as, your esteemed letter came to hand on the 10th.—To have a hand in, to be implicated or concerned in; to take a share in; to be engaged in; as, they all have a hand in the mischief.—To have in hand, to be engaged upon; to undertake; to have in hand, to be engaged upon; to undertake; to have in course of prosecution.—To have one's hands full, to have more than enough to do at one time: to be overburdened with business; to be under a pressure of difficulties.—
To his or my hand, &c., already prepared or available;
in readiness. "Many, whose greatness and fortune were
not made to their hands." (Addison.)—To lend a hand, to not made to their hands." (Adaison.)—To lend a hand, to assist; to render help; sa, lend me a hand to lift this.

—To lift the hand against, to assault; to use violence against.—To lire from hand to meath, to obtain a pre-carious sustenance; to live without provision for the future; to subsist on the bare requirements of want, or from day to day.—To make one's hand, to derive advantage of the subsistent of the subsistence of the subsi tage; to gain superiority; to obtain profit.

"The French king, supposing to make his hand by those rude ravages in England, . . . proclaimed hostility." — Hayward.

To put one's hand to, lay hands on, or upon, to seize; to take forcible possession of.

"Time has loid his hand upon my heart."—Longfellow.
To put the finishing hand to, to complete; to perfect; o give the last or final touches or corrections to.—
best the hand to, to undertake; to set about the doing of anything.

"He was a very idle fellow, that would never set his he v business."—Addison.

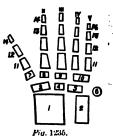
ay business. —Addison.

To strike hands, to become security or guarantee for conduct. — To take in hand, To strike Anna, to decome security or guarantee for another's solvency or good conduct. — To take in hand, to attempt; to enter upon an undertaking or business; also, to take possession of, and deal with; as, he was a restive horse until I took him in hand. — To wash the hands, to make a profession of innocence; to decline to take part in or meddle with; as, he washed his hands of

hands, to make a profession of innocence; to decline to take part in or meddle with; as, he weashed his hands of any complicity in the transaction.— Under the hands of any complicity in the transaction.— Under the hands of the Secretary of State.

(And. and Physid.) The hand is the lower portion of the superior extremity, the great organ of touch and prehension. "In many respects," says Dr. George Wilson, "the organ of touch, as embodied in the hand, is the most wonderful of the senses. The organs of the other senses are passive; the organ of touch alone is active.... The hand selects what it shall touch, and touches what it please. It puts away from it the things which it hates, and beckons towards it the things which it desires.... Moreover, the hand cares not only for its own wants, but when the other organs of the senses are rendered useless, takes their duties upon it.. The billed man reads with his hand, the dumb man speaks with it; it plucks the flower for the noeffel, and supplies the tongue with objects of tate. Not less amply does it give expression

ply does it give expression to the wit, the genius, the will, the power of man. Put a sword into it and it will iffi, the sword in ight, a plough iffi, a harp and it will pana a pen and it will pana a pen and it will speak. What, moreover, is a ship, a railway, a light-house, or a palace, — what, indeed, is a whole city, a whole continent of cities, all the cities of the glole, nay, the very globe itself, so far as man has changed it, but the work of that giant hand with which the hull, sed of radius 2, end of ulna; man race, acting as one mighty man, has executed will?" (Five Gateways "woledge.) The hand which distining the same in the class sing the same in the class in the clas



two hands bimana. That which constitutes the hand, properly so called, is the power of opposing the thumb to the other fingers, so as to seise upon the most minute objects. The hand is composed of a number of small bones, 27 in all, (Fig. 1235,) so arranged as to combine the great est possible degree both of strength and flexibility. These are arranged into

three divisions, — those of the carpus, metacarpus, and phalanges. The carpus, or wrist, compriscarpus, or wrist, comprises eight bones, arrangised in two rows, four in each; which are the scaphoid, naviculare, or boat-haped bone; the se mi-lunar, or halfmoon; the cunelform, or wedge-shaped; the pisiform, or pes-like; the trapesium; trapezoid; the magnum, or great bone; and the unciform, or hook-shaped. The or hook - shaped. The metacarpal bones are five in number, and constitute the bones of the palm and back of the hand. The phalangeal hand. The phalangeal bones are fourteen in number, three for each of the four fingers, and two for the thumb. They are named in their numerical order from above downwards, i. c. from the palm of the hand. The inferior exhand. tremities of the radius and ulna articulate with the scaphoid semi-lunar. and cuneiform bones of the first row of the carpus. The articulations between the first and second rows of the carpal bones are very remark-able. These articulations are connected by numer-



Fia. 1236.

ous ligaments running in various directions, by means of which the bones are kept in their proper positions. (Fig. 1236.) The second row of carpal bones articulate with the metacarpal, and form the carpo-metacarpal articulations. They are con-nected by dorsal and palmar ligaments, stretching from the carpal to the metacarpal bones. The metacarpo-phalangeal and inter-phalangeal articulations are simi-larly formed, and are connected by lateral ligaments on each side, and a strong ligament in front. Besides these there are the various muscles of the hand, which give to it its several motions of flexion, extension, abduction, adduction, and circumduction. The hand is also richly supplied with blood-vessels and nerves.

supplied with blood-vessels and nerves.

Diagram of Fig. 1238, which presents a front view of the superficial layer of muscles of the fore-arm; 5, the fiszor carpi-radialis muscle; 5, the palmaris longua muscle; 7, one of the fascicuit of the flator subblimis-digitorum muscle, (the rest of the muscle is seen beneath the tendons of the palmaris longua.) 8. The fiszor carpi-ulnaris muscle. 9. The palmar fascia. 11. The abductor politicis muscle. 12, One portion of the fiszor brevia-politicis muscle. 13, The supinarior longua muscle. 14. The extensor oscis metacarpi, and extensor primi internodii politicis muscles, curving around the lower border of the fore-arm. 15, The natterior portion of the annular ligament, which binds the tendons in their places. Practical Explanation. The muscle 5, 8, 8 bend the wrist on the bones of the fore-arm. The muscle 1 draws the thumb from the dagers. The muscle 12 fascs the thumb. The muscle 13 turns the paim of the hand upward. The muscle 8, 13, 14 move the hand laterally.

hand issersily.

Hand, v. a. To give or transmit with the hand; as, to hand wine around. — To guide, lead, and lift with the hand; to conduct; as, to hand a lady into a carriage. — To piedge by the hand; to handfast.

(Naut.) To furl; as, to hand the sails.

To hand down, to transmit in succession, as from father to son, or from ancestor to descendant.

" A story incapable of being handed down to us." - Pope

Hand'-barrow, n. A barrow impelled by a man'

Hand'-basket, n. A portable basket; a basket small enough to be carried in the hand.
Hand'-bell, n. A table-bell; a small bell rung by the

Hand bill, n. An instrument for pruning trees. — A loose printed sheet to be circulated; a printed notice

loose printed sheet to be circulated; a printed notice or advertisement to be posted in public places.

Hand book, n. A book for handy use; a manual; a guide-book; a traveller's itinerary; as, Murray's Handbook of Germany.

Haud'-brace, n. (Curp., dc.) A tool for boring, consisting of a crooked spindle, at one end of which a broad head or breastplate is attached by a swivel, so that it may remain stationary while the crank is turned; at the other end is a socket, into which a drill can be fixed.

Hand'-breadth, n. A space equal to the breadth of a hand; a paim.

Hand'-car, n. A space equal to the breadth of a hand; a paim.

Hand'-car, n. A sort of tram or car, made to be propelled along a railroad by hand-power.

Hand'-cart, n. A light cart adapted to be moved by

Hand'eloth, s. Same as Handkerchier, q. v. Hand'eraft, s. See Handkerr. Hand'eraftsman, s. A handkeraftsman; a mechanic.

Ham'del, George Frederick, an illustrious German musician, a. at Halle, in Saxony, 1684. He had been originally intended by his father for the law; but early evincing an unmistakable inclination for the "concord of sweet sounds," a master was found for him, and his progress was so rapid, that at ten years of age he composed a set of sonnets. In 1703 he went to Hamburg, where he played a violin in the orchestra of the opera. He was soon its director, and composed his first opera, Aimira, which was rapidly followed by Nero, Florinda, and Daphase. His violent temper involved him in a quarrel with a brother-composer, which resulted in a duel; the sword of his adversary was stopped by a button or a music score. He next visited Italy. In Florence he composed Rodrigo, 1709. His Agrippina, composed his Nonice, had a run of 30 nights. At Rome he produced his Il Trionfo del Tempo. At Naples he composed Acis and Galadea, and in 1710 returned to Germany, where he was appointed chapel-master to the Elector of Hanover, afterwards George I. He afterwards went to England, where he was patronised by Queen Anne and the nobility. He composed Kinaldo, Pustor Fida, Theseus, and in 1715, Amadis de Gaula, in which Nicolini and Valentini first sung in England. The opera was an excitc in England and a plant of slow growth. A Royal Academy of Music was formed, and after some competition was placed under H's management; but his overbearing temper could not cope with musical jealousies. An opposition house was started, and both soon failed, with a loss to H. of \$80,000. He now commenced the Ham'del, Grorge Frederick, an illustrious German An opposition house was started, and both soon failed, with a loss to H. of \$50,000. He now commenced the composition of his oratorios. Esther was produced in 1733; it was followed by Deborah, Alexander's Fast, and Israel in Egypt; and in 1740 appeared L'Allegroe Penseroso, and Saul. These were produced in the Lincoln's Inn Fields Theatre, but with no profit. Even the Marsich Abbarret whills no five fix conventions. coin's Inn Fields Theatre, but with no profit. Even the Massiah, the most subline of his compositions, was at first a failure. Tired of this titanic struggle, H. went to Dublin, where he remained nine months, and received a generous support. On his return to London he composed his Sumson, and produced his Massiah for the benefit of the Foundling Hospital. It was repeated annually for the same purpose, and from 1749 to 1777 brought to that charity \$51,500. H. became blind, but he still composed, and played on the organ, being led to his seat, and forward to receive the plaudits of the andience. D. 1759.

his seat, and forward to receive the plaudits of meanusence. D. 1750.

Hand'cuff, n. [A. S. handcopse—cops, a fetter.] A
name given to one of a pair of manacles, consisting of
iron rings, connected by a chain to the wrists. (Usually
in the plural.)

— a. To place handcuffs on; to manacle; to fetter.

Hand'-director, n. (Mus.) An instrument to aid in
forming a good position of the hands and arms when
performing on the planoforte; a hand-guide.

Hand'-dirliling Machine', n. A small drillingmachine turned by manual labor:

Hand'ed, a. Having the greatest power or dexterity
in one of the hands; as, right-handed, left-handed.—

With hands joined.

"Into their inmost bow'r handed they went."

"Into their inmost bow'r handed they went."—Milton.

Hand'er, s. One who hands or transmits; a conveyer in succession.

"Yet graat they were the handers down."—Drydon.

Hand'ful, s.; pl. HANDFULS. As much as the hand will grasp or contain; as, a handful of gold. — A small number or quantity; as, a handful of men.

Hand'egallop, s. (Maneg.) A slow and easy gallop, in which the hand presses the bridle to hinder increase of smed.

of speed.

Hand'gear, n. (Much.) In a locomotive-engine, the handles of the working gear, placed conveniently to the foot-plate, so as to be within reach of the engine-driver

foot-plate, so as to be within reach of the engine-driver when he requires to use them for regulating the different parts of the engine.

Hand'-glass, s. A small glazed frame placed over plants for their protection.—A hand mirror.

Hand'-gremade', n. (Mil.) See GRENADE.

Hand'-hole, n. A small open space at the bottom of a steam-boiler, for the purpose of permitting insertion of the hand when cleaning, &c.

Hand'-hoek, n. An instrument made by smiths to twist square from.

Hand'-heok, n. An instrument made by smiths to twist square iron.

Han'dicap, n. (Sports.) A weight-for-age race for horse; also, a distance or time-allowance.

Han'dicapper, n. (Sports.) One who adjusts the weights in a handicap, and settles the conditions upon which the horses run.

Han'dicraft, n. [A. S. handcraft.] Work performed by the hand; handcraft; manual occupation.—One who is skilled in some mechanical art. (n.)

Hand'deraftsman, n. pl. Handcraftsen. A man skilled or employed in some manual occupation; a manufacturer: a mechanic; an artissn.

Hand'liv, with ease or convenience; in a handy manner.

Hand'iness, n. Quality of being handy; ease of performance derived from practice; dexterity; advitness.

Hand'twork, n. [Corruption of handwork.] Work of the hands; product of manual lalor; manufacture; work performed by power and wisdom.

work performed by power and wisdom.

Hand kercher, Han kercher, n. A handkerchief. (Antiquated, but sometimes used as a vulgar colloquialism.)

colloquialism.)

Hand'Reerchief. n. [Hand, and kerchief. See Kerchief.] A piece of cloth, usually silk, linen, or cotton, carried about the person for the purpose of wiping the face, hands, month, nose, &c., as occasion requires.—A neckerchief; a neckcloth. (In this sense an erroneous term.)

Hand'-language, s. Same as CHEOLOSY, q. v. Handle, (han'dl.) v. a. [A. S. handlian; Ger. handels.] To touch or feel with the hand; to use or hold with the hand.—To manage; to wield; to use;—hence, to perform or manage with skill or dexterity.

melles his bow like a crow-ke That fellow & To treat; to use well or ill; as, the man got roughly handled.—To discourse on; to treat; to discuss; to use by mention in writing or speaking.

In an argument handled thus briefly, everything enamet be .."—Bp. Atterbury.

To deal with; to practise.
"They that handle the le

die the law know me not." — Jer. ii. S. practise on; to transact with; to conduct.
"My lord, you shall see how I'll handle her."—Sh

To render easy and familiar by frequent touching; as, to handle a colt.

to handle a coit.

-. n. To use the hands; to execute by means of the hands; as, each man handled his rifle.

-n. [A. S. handel.] That part of a vessel, weapon, or isstrument, by which it is held in the hand; a haft; as, the handle of a knife, the handle of a whip. — The isstrument of effecting a purpose; that of which use is made: a tool: a catspaw: a dupe

They overturned him by the fatal he are. - South.

To give a handle. To furnish cause; to give occasion; as, his conduct gave a handle to censorious tongues.

Han'dicable, a. That may be handled; suitable to

Hand'-lead, n. (Nast.) A small lead used in sounding.

Hand'-lead, n. (Nast.) A small lead used in sounding.

Hand'ling, n. A toucking, or use by the hand; discussional treatment; as, the subject requires gentle

handling. (Painting.) Manner of touch; mode of using the

(Printing.) Manner of touch; mode of using the brush, or pencil.

Hand'-loom, n. See Wravine.

Hand'smade, a. See Hard.

Hand'smaid, Hand'smaiden, n. A female servant or attendant. "Nature's Aund-maid, Art." — Dryden.

or attendant. "Nature's hand-maid, Art." — Dryden.

Hand'-mill, n. A mill worked by hand.

Hand'-organ, n. A kind of musical instrument; a small portable organ consisting of a barrel or cylinder, turned with a crank.

Hand'plant, n. (Bot.) See Chinostemon.

Hand'-pump, n. (Mach.) In a locumotive-engine, the pump placed by the side of the fire-box. to be worked by a hand-lever when the engine has to stand with steam m.

steam up.

Hand'-rail, s. A rail for the hand, supported by balusters, &c., as in staircases.

Hand'-railing, s. (Mach.) In a locomotive-engine,
the railing along the sides of the engine, to protect persons passing to the front of the engine for any necessary

Hand'-sail, s. (Naul.) A sail worked by the hand.

Hand'-sail, s. (Naul.) A sail worked by the hand.

Hand'-saw, s. A saw from 26 to 30 inches in length,

with a handle at one end,—used for cutting wood.

Hand'-serew, s. A jack; an instrument for raising

Hand'-serew, n. A jack; an instrument for raising heavy timber.

Hand'sel, n. [A.S. hand-selen, a putting into another's possession; hand-syllan, to deliver up-hand, and syllan, to deliver, give, bestow.] A gift, purchase, &c, delivered into another's hand; the first sale: money for the first sale: an enriest; a New-Year's gift; the first act of using anything. (Used colloquially.)

"The Aposles term it the handsel, or earnest, of that which is to come."—Rooker.

come.—access.—access.—a. or deliver, as into the hand of another; to bestow any gift or make any purchase at a particular time or season; to give as an earnest, or earnest-penny; to use or do anything the first time.

"On timorous deer he handsels his young paws."-Couley.

Hand'sel-Monday, n. The first Monday in the New

Hand'sel-Monday, n. The first Monday in the New Year, when handsels or presents are given.

Handsome, (harisum, a. [Belg. handsaam, fit, made to the hand; D. handsaam; A.S. hand and samer.]

Moderately beautiful; well made; having symmetry of parts; comely; nice; good-looking; having a pleasing appearance or expression; as, a handsome man, a handsome pronn.—Graceful in manners; marked with propriety and case: elegant; correct; appropriate; suitable; becoming; as, a handsome address. a handsome style.—Ample; liberal; generous; moderately large; as, a handsome fortune, a handsome profit, a handsome offer he.

ously; interally; as, to clude a school analysemely, &c. Hand'somely built ship, the men fought handsomely, &c. Hand'someness, n. Quality of being handsome; a moderate degree of beauty or elegance; gracefulness; ease and propriety in manner.

Hand'spike, n. A wooden her used with the hand as a lever, for moving heavy things, as in mising weights: (Naul.) A wooden lever employed on board a ship in working the windlass and capstan, one end being squared to fit the holes in the capstan-head, and in the barrel of the windlass.

(Ordennes) A stout ashen pole, 7 feet in length, used as a lever in the service of heavy guns. It is round at the handle, and square toward the other end, the extremity of which is bevelled. When the H. is used as a lever of the first kind, the bevelled side should be down; when used as a lever of the second kind, the bevelled side should be uppermost.

Hand'staff, n.; pl. Hand-staves. A javelin.— Eck. xxxix, 9.

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genious; practising with expertness and readiness Each is handy in his way." - Dryde

ady to the hand; near; convenient; as, he has every

thing handy to his work.

Han'dy, in Michigan, a township of Livingston co.
Pop. (1897) about 1,200.

Handy, in Oregon, a post-office of Marion co.

Handy-book, s. A digest; a compendium; a vade

Hand y-book, n. A ugest; a compensum; a van-mecum; a manual.

Han'dy-dan'dy, n. A play among children, in which something is passed from one hand to the other behind the back, and then a guess made in which hand it may be found.

ndy-dandy, which is the justice, which is the thief." - Shake Hamd'y-fight, n. Boxing; pugilistic strife.
"Poliux loves handy-fights." — Ben Jonson.

Hand'y-gripe, n. Grasp by the hand. Hand'y-stroke, n. A stroke or blow given by the hand.

Hand'y work, n. Same as HARDIWORK, q. v.

Hand'orville, in Wisconsin, a post-office of Dane co.

Hanes'ville, in Maryland, a post-office of Kent co.

Ha'ney, in Wisconsin, a post-office of Crawford co.

Haney's Cormers, in Judiana, a post-office of Ripley county.

Hamey ville, in Pennylcusia, a P. O. of Clinton co. Ham'ford, in Culfornia, a post-village, cap. of Kings' co., on So. Pac. R.R. Pop. (1897) about 2,600.

Hamg, v. a. (imp. and pp. HANGED or HUNG.) [A.S. Aargsian; Ger. hängen; Dan. hænge; Icel. hanga; O. Ger. hähan; Goth. hahan, to crucify, to suspend; prohably from Sansk. sang, sag, to adhere.] To suspend from some elevated point or position; to place without solid support or foundation;—frequently before up or out; as, to hang one's hat up, to hang a picture, to hang up a sign, to hang out clothes to dry. "Hang out our banners on the outward walls." (Shaks.)—To cause to depend; to impend, or to be pendulous; to fix in such a manner as to be movable; as, to hang a gate, to hang a clock-weight.—To put to death by suspending from the neck; m, to hang a murderer.—To append; to fix to. by hanging Anny a murderer.— To appending troin to to, by hanging decorations, pictures, and the like; used in application to a wall, a tree, &c.; as, to hang a room with tapestry, to hang a Christmas-tree with toys.— To cause to hang: to droup; to decline.

"White lilles hang their heads and soon decay." - Dryden

To hang down, to let fall below the proper or natural situation; to decline; to bend down; as, to hang down the head.

hang Are. (Mil.) To be slow in igniting the charge

as, the gun hangs fre.

-s. n. To be suspended; to depend; to dangle; to be partially dulous; to float; to be supported by something raised above the ground, without support from below; as, a hanging garden. "Over it a fair portcullis hung." (Spenser.)—To be put to death by suspension from the neck; to be strangulated by the halter.

"The court foreakes him, and Sir Balaam Aungs." - Pop To rest on something for support; to cling to; — with on or spon. "Hanging on Hotspur's neck."—Shaks.

To be incommodiously connected; to be a weight; to drag; as, time hangs heavy on one's hands.

To be delayed; to linger.
"The monarch o'er the syren hang.
And best the measure as she sung."—Scott.

—To hover; to impend; to present a threatening sapect; (generally preceding over;) as, a storm hangs over us. —
To lean; to incline; to have a downward tendency; to present a steep declivity; as, hanging grounds.

"His seet obliquely o'er his shoulders hang." — Pope.

To be uncertain: to have the attention arrested: to be

"His seck coliquely o'er his shoulders hung." — Pops.

To be uncertain: to have the attention arrested; to be held in a state of suspense.

To hang on or spon, (emphasizing the preposition.) to adhere; to hold fast or stick to. "Gloominess which is apt to hang upon the mind." (Addison.) — To hang to, to cling. — To hang by the eyelids, to hang by a very frail hold or tenure; to be left incomplete, or in an unfinished condition. — To hang on the lips, or to hang on swords, to be rapt or fascinated by eloquent speech. "Wondring senates hung on all he spoke." (Pope.) — To hang together, to remain united with, or as a part of a whole. "In the common cause... we hung together." (Dryden.) — To possess consistency or cohesion. "Your device hangs very well together." (Dryden.) — To get the hang of, to acquire the knack of; to master with facility; as, to get the hang of a business.

Hang., n. (Ger.) A steep declivity. — Arrangement; method; order; plan; as, the hang of a discussion.

Hang. by, n. A hanger-on; a dependant; — used in a contemptuous sense. (R.)

Hand'stree, n. (Botany.) Same as Hand-plant. See Christoffine, n. A small vice which is held in the hand, used for small job-work, &c.

Hand'swheel, n. (Mach.) Any wheel regulated by hands in general; the handle for adjusting valves, &c.

Hand'swinged, (wingd,) a. Having wings slaped like a hand, as bats.

Hand'work, n. Same as Handwork, q.v.

Hand'work, n. The cast, style, or form of writing peculiar to each hand or person; chirography; penmanehip.—Any writing performed by hand; manuscript.

Hand'smy, n. The mode of capital punishment used in this country and in England is that kind of death in semious; practising with expertness and readiness. "Br... you have a kenging took."—Shake.

"Bir... you have a kenging took."—Shake.

—Requiring or meriting the punishment of death by the halter: as, it is a hanging matter.

Hamg'ing, n. The mode of capital punishment used in this country and in England is that kind of death in which the body is wholly or partially suspended by the neck, the constricting force being the weight of the body itself, while in strangulation it is due to some other cause. In both cases death commonly results from asphyxia. If, however, the cord be loose, or applied to the upper part of the neck, a small quantity of air may still reach the lungs, and in such cases death will arise from apoplexy, the cerebral circulation being interrupted by the pressure. In many cases death is produced by a mixed condition of asphyxia and apoplexy. In the execution of criminals, it has often been observed that death does not always ensue within the same period of time; which is to be accounted for from the greater or less degree of constriction produced by the ligature. of time; which is to be accounted for from the greater or less degree of constriction produced by the ligature. In some rare cases, death has taken place with great rapidity, owing to a displacement of the dentiform process of the second cervical vertebra; by which the spinal marrow became suddenly compressed. This cause of death, however, is extremely rare, and is only likely to occur in very corpulent subjects, when a long fall is given to the rope, and when much violence is at the same time employed by the executioner. Sometimes violent convulsions are observed of the limbs and trunk; but there is no reason to believe that the individual suffers pain then any more than in an epileptic fit. It has often been found impossible to restore animation after the body has been suspended only a very few minutes. Sometimes here, as indrowning, a person may in the first instance recover, and subsequently die, in spite of the best medical treatment, from the depressing effects produced on the muscular and nervous system. effects produced on the muscular and nervous system In attempting to restore animation in such cases, artifi-cial respiration, cold affusion when the skin is warm with the vapor of ammonia, and other stimuli, are recommended to be employed. The application of elec-tricity, or electro-magnetism, in the course of the spine is also sometimes attended with benefit. If there should is also sometimes attended with benefit. It there should be much cerebral congestion on recovery, venesection may be cautiously resorted to. From experiments, as well as from the evidence of persons who have been resuscitated, we learn that asphyxia comes on in the most insidious manner in death from hanging; and that the slightest constriction of the traches will speed, the problem from the little problem from the little problem. that the signitest constriction of the traches will specify produce insensibility. Such persons have been conscious of a ringing in the ears, a flash of light before the eyes, then darkness and stupor. In medical jurisprudence it often becomes an important question to determine whether the individual was suspended before or after death, and which must often be determined by the after death, and which must often be determined by the circumstances of each case, as there is no distinctive sign by which the hanging of a living body can be determined, or which may not be simulated in the dead subject. It is also often important to determine whether the individual hanged himself or was hanged by others; and there, too, an opinion can only be arrived at from a consideration of the circumstances. In such cases, however, the presumption is in favor of suicide, as hanging is a difficult mode of perpetrating murder, unless the strength of the parties be greatly disproportionate, or the assailants numerous. Hanging is also sometimes the result of accident.—See Punishment (Capital.)

Hang'ing-buttress, s. (Arch.) A buttress not standing solid on a foundation, but supported by a corbel.

Hanging Gardens, n. pl. (Antiq.) A series of magnificent gardens laid out on elevated terraces at Babylon, and supposed to have been constructed by Outon Statement Association 10 Colombia and Strategical Colombia and Stra Babylon, and supposed to have been constructed by Queen Semiramis. According to Diodorus and Strabo, the form of these gardens was square, each side being about 400 feet in length; so that the area of the base was nearly four acres. In Dr. Falconer's Historical Fiew of the Gardens of Antiquity, quoted in Loudon's Encyclopedia of Gardenia, it is stated that "they were made to rise with terraces constructed in a curious manner, above one another, in the form of steps, and were supported by stone pillers to the height of more than ner, above one another, in the form of steps, and were supported by stone pillars to the height of more than \$300 feet, gradually diminishing upwards till the area of the superior surface, which was flat, was reduced considerably below that of the base. This building was constructed by vast stone beams placed on pillars of stone (archies not being then invented), which were ragain covered with reeds, and cemented with bitumen, over which was placed a double row of bricks united with cement. These bricks were covered with plates of lead, which effectually prevented the moisture from penetrating downwards. Above all was laid a coat of earth, of depth sufficient for plants to grow in; and the trees planted there were of various kinds, and were ranged in rows on the side of the ascent, as well as on the top, so that at a distance it appeared as an immense pyramid covered with wood. The situation of this extraordinary effort of human skill aided by wealth was nearly adjoineffort of human skill aided by wealth was nearly adjoining to, or upon the river Euphrates, from which water was supplied by machinery for the fountains and reservoirs employed for cooling the air and watering the garden." The different terraces and groves also contained fountains, parterres, seats, and banqueting-rooms, and combined the minute beauties of flowers and follage (only to be rightly estimated in those desert plains) with recesses of shade and extensive prospects. The existence of these hanging gardens has been doubted by some authorities; but it is said that their locality can be traced, and their ruins discovered, among the numerous mounds of sand which mark the position of ancient Babylon. Babylon.

Hang'ing Grove, in Indiana, a township of Jasper

Hang'ing-holder, n. One who holds up hangings.

Hang'ing Rock, in Ohio, a post-village of Lawrence county, on the Ohio River, about 110 miles S. by E. of Columbus.

Columbus.

Hang'ing Bock, in W. Virginia, a village of Hampshire co., abt. 28 m. W. of Winchester.

Hang'ings, n. pl. Lining for the walls of rooms, or arras, tapestry, &c.; as, paper-kangings.

Hang'ing-side, n. (kining.) The side of an inclined vein which points over.

Hang'ing-sieeves, n. pl. Loose strips of the same stuffss the dress or gown is made of, depending behind from the shoulders.

"Bhakes in Assging-elec wer the little box and dice.

Hang man, n.; pl. Handers. One who hangs another; specifically, a public executioner; — sometimes, also, used as a term of represent in reference to low, disreputable persons.

'The fear o' hell 's a hangman's whip To haud the wretch in order." — Burns.

Hang'manship, n. Office or character of a hangman. (B.)

"I abominate and detest hangmanship." - W. S. Landor.

Hang'mail, n. A small filament of skin hanging from the root of a finger-nail, Hang'-mest, n. A nest suspended from a bough or branch. — A hang-bird. Han'go-Udde, (Hango Head,) a promontory of Russia, at the extreme S. of Finland, on the Gulf of Finland, Lat. 59° 46' N., Lon. 22° 56' E. Here the Char, Peter the Great, in 1714, gained his first naval victory over the Swedes. the Swede

the Swedes.

Hang-Teheou, or Hang-CHOO-FOO, one of the largest and richest cities of China, cap. of prov. Tchè-kiang; on the Tsien-tang-kiang, 20 m. from its mouth in the Rastern Sea, and 140 m. S.E. of Nankin; Lat. 30° 20′ 20″ N., Lon. 119° 48″ E. The city is surrounded with high and thick walls, said to be 10 m. in cir-

to be 10 m. in circuit. The Grand Canal has its terminus here in a large com-modious basin. This city has, in conse-quence, a river-communication with Pekin, and a vast commandofinternal navigation, which it has turned to good account. H. is cele-brated for its silk manufactures, and its embroidery excels that of any part of China. No city in China, unless it be that of Soo-chowfoo, possesses wealth to compare with that of this remark-



literati and priests, abound and flourish in Hang-choo-foo. One cause of the celebrity of the city is found in the leauty of the environs. The tower of the Thundering Winds (Fig. 1237), although in ruins, is still an imposing edifice, and perhaps, after the Great Wall, the only remains of ancient Chinese architecture extant; while monumental gateways, light siry bridges, and temples of the size of villages, render the natural beauties of the city highly picturesque. One of the temples possesses 500 images of the Io-han (Buddhist saints), of the size of life, richly covered with gold. Nothing can exceed the beauty of the valleys opening into the lake, richly adorned as they are with trees, chiefly the camphor and tallow trees, and the arbor vites. H.-T. was formerly the capital of the empire. Pop. estimated at 800,000.

Hamk, n. [Dan. hank, a band; Gr. henkel, a handle, a hook, an eye; allied to hang.] The name given to two or more skeins of yarn, silk. or cotton, when tied together. When singly they are called skeins.—In some parts of Eugland, a latch; a hasp; a holdfast.—pl. (Nut.) Rings of ash or iron, by which fore-andaft sails are confined to the stays on which they are severally suspended, and upon which stays the hanks silde, while the sail is in process of being set or hauled down.

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To desire eagerly and longingly to get hold of or possible to desire eagerly and longingly to get hold of or possible to desire eagerly and longingly to get hold of or possible to desire eagerly and longingly to get hold of or possible to desire eagerly and longingly to get hold of or possible to desire for something, accompanied Ham'mibal, in Ohio, a post-village of Monroe co. Ham'mibal Centre, in New York, a post-village of Wawgo co., about 30 m. N.W. of Syracuse.

Ham'mibal There were several eminent Carthaginians of this name. — One of the most celebrated is the marifum discoverer who made a voyage on the western Hank'er, v. n. [D. hunberen : allied to bank and hong.] '-A post-village of Oswego co., about 60 m. N.E. of )

HANN

form a knot or group; to congregate; to cluster: as, to konker about a doorway.

Henrims, Marcus A., merchant and politician, was born at New Lisbon, Columbians co., Ohio, Sept. 24, 1837; som of a physician of that village, who removed to Cleveland in 1852, and engaged in the wholeasle grocery business under the firm name of Hanna, Garretson & business under the firm name of Hanna, Garretson & Co. H. entered the employ of this firm after completing a course of study at the Western Reserve College, and shortly became a partner. He developed a marked degree of business sagacity, and in 1885 established the firm of M. A. Hanna & Co., which does a very large business in mining, shipping, &c. Mr. H. began his political career in 1884, as delegate to the Republican National Convention, where he supported Garfield. He was instrumental in electing Major McKinley governor O Ohio, and it is conceded that the latter's election to the Presidency, in 1896, was largely due to the energetic methods of Mr. H., who had already secured the nomination of his favorite at St. Louis against very formidable methods of Mr. H., who had already secured the nomination of his favorite at St. Loniangainst very formidable opposition, and who conducted McKinley's campaign as Chairman of the Republican National Committee. Upon Mr. Sherman's acceptance of the State portfolio, in March, 1897, Mr. H. was appointed by Governor Businell to take Mr. Sherman's place in the U. S. Senate for the remainder of the latter's term, which expless in 1899.

Bushnell to take Mr. Sherman's place in the c. s. Shenate for the remainder of the latter's term, which expires in 1899.

Ham'nibal, the great Carthaginian general, was B. S. C. 247. He was son of Hamilicar Barca, and when nine years of age swore, by his father's command, eternal emitty to the Bonans, as the condition of accom, anying him to Spain. He learned the art of war under his father there, and was present at the battle in which he fell. Hamilial was then 18, and after serving six years under Hasdrubal, who was assassinated S. C. 221, he became commander-in-chief of the Carthaginian army. To complete the conquest of all Spain south of the Ebro, he besieged the city of Saguntum, and after an heroic defence of eight months, took it. The city being in alliance with Rome, its fall was the occasion of the great war between Rome and Carthage known as the Scond Punic War. H. at once prepared for the invasion of Italy, and in the spring of S. C. 218 he set out on his arduous march from the Ebro, through hostile and unknown countries, across great rivers and mountain-Passic War. H. at once prepared for the invasion of Italy, and in the spring of St. 218 he set out on his arduous march from the Bbro, through hostile and unknown countries, across great rivers and mountain-chains, to the Po. His army, composed of Africans and Spaniards, was greatly reduced in numbers by the withdrawal of a large body, and by losses on the march; but he crossed the Pyrenees, forced the passage of the Rhone before Sciplo arrived to oppose it, and in October made the passage of the Alps in 15 days. The terrible hardships of this enterprise cost him a very large number of his troops, both foot and horse, and elephants. The first engagement took place near the Ticinus, and resulted in the defeat of the Romans. The battle of the Trebia was fought toward the end of December, and the Romans were again defeated. H. was joined by the Gaulish tribes, and took up his winter-quarters among them. In the spring of 217 he defeated the consul Flaminius on the shores of Lake Thrusimenus, and destroyed the Roman army. So flerce was the struggle that a shock of earthquake passed unfelt by the armies engaged. H. advanced southward, and passed the Apennines into Apulia, harassed however by the new policy of the cautious Fabius, who avoided fighting. In the spring of 218 H. won the great victory of Caune, and again destroyed the Roman army. After this victory almost all South Italy declared for him, and he went into winter-quarters at Capus. From that time the war changed its character, and it is not possible here to give even a summary of its progress. The conquest and loss of Tarentum, the loss of Capua, the defeat and death of Hasdrubal at the battle of the Metaurus in 207, still left H. atrong enough to hold his ground in the southern extremity of Italy for Kur years longer; but in 203 the scene of war was changed to Africa, and in the following year Scipio finally defeated H. at the battle of Jama, and peace was concluded. Thegreat Carthaginian did not lose hope, but applied himself to political and financial r Zaima, and peace was concluded. The great Carrianginan did not lose hope, but applied himself to political and financial reforms, and preparation for fresh war. His enemies, however, accused him at Rome, and he field to the court of Antiochus, king of Syria, who was just entering on a war with the Romans. After three years, the war ending with the defeat of Antiochus, H., to avoid being given up to Rome, took refuge with Prusias, king of Bithynia, a. c. 190. And finally, when his surrender was demanded in 183, he put an end to his life by poison. It is acknowledged that H. ranks with the greatest generals of ancient or modern times. His great bodily strength and agality, capacity of endurance, frank bodily strength and agality, capacity of endurance, frank and fascinating manners, marvellous sagacity, caution in plauning, and rapidity in action, made him the idol of his troops; and his power over them, composed though they were of men of so many nations, was such that during the 16 years of the war there was never a mutiny in his camp. He was a man too of considerable cultivation, and shone as a statesman almost as much as a general.

is a general. Han'nibal, in Missouri, a city of Marion co., on Mississippi River, abt. 153 m. above St. Louis. It considerable commerce, and is increasing rapidly in population and importance. Mannf. Tobacco, hemp, de. Pop. (1897) about 15,000. Hani'mibal, in New York, a post-village and township of the ego co., about 28 m. N.W. of Syracuse.

of this name. — One of the most celebrated is the maritime discoverer who made a voyage on the western coast of Africa, of which he has left a description, called the Periphus of Hunne. The purpose of this voyage was to make discoveries for the benefit of commerce, and to settle colonies, of which he established several. — Two Carthaginian generals, of the name of H., commanded in Sicily, successively, during the Punic war. Another was entinent both as general and statesman, and was the persistent opponent of the party which maintained the war with Rome. — Another H. was one of the companying under Hamphal in Laly and was ancreasful

manders under Hannibal in Italy, and was successful

on several occasio**ns.** 

an several occasions.

Han'over, a province of Prussia, and previous to 1867

a kingdom of N.W. Germany, is situate between Lat.

51° 18' and 53° 52' N., and Lon. 6' 43' and 11° 45' E.,
bounded N. by the German Ocean and the Elbe, E. by

Prussian Saxony and Brunswick, S. by Hesso-Cassel

and Westphalia, and W. by Holland. Its boundary
ling is very irresultant. Inserts from the mouth of the and Westphalia, and W. by Holland. Its boundary-line is very irregular; length, from the mouth of the Elibe 8., 172; breadth, E. and W., 180 m. H. is divided into seven landdrosteien, or administrative divisions, su-perintended by a landdrost, or high-balliff. The 7th of these divisions, however, the mining-district of the Harz, is governed by a berghauptmann, or captain of the mountain. Area, 14.846 sq. m. Gen. Desc. The surface of the prov. is generally an inclined plain, elevated in few places more than 200 feet above sea-level. In the 8. part of the prov. are the Harz Mountanns, the highest summit of which, the Brocken, is 3,740 feet high. This mountain mass forms the watershed between the Elbe-and Weser. Several large moors dot the country, while mountain mass forms the watershed between the Ellicand Weser. Several large moors dot the country, while the lowlands on the sea-coast, which, being below sea-level, are diked, form the most productive part of the soil. Mirers. Elbe. Weser, Ems, and their affluents. Several lakes are found, as the Dimmer-See, Seoburger-See, &c. Boil, generally good, though intermixed in many places with mari and sandy deposits. Agric, &c. Barley and oats are largely cultivated and exported; rye and wheat too are grown—the latter in insufficient quantities for home demand. Potaties, turning, hemp, toliagon, home, and are grown—the latter in insufficient quantities for home demand. Potatoes, turnips, hemp, tobacco, hope, and various grasses are also extensively cultivated. Horses are bred on an important scale, large numbers being annually sold to the French and Italian governments for nually sold to the French and Italian governments for cavalry service. Cattle and sheep-rearing is also extensively carried on. Min. Coal, sait, and iron are found in considerable quantities, and in the Hars district actively mined. Manuf. Linens, yarn, thread, osnaburgs, hempen fabrics, machinery, chemicals, and indis-rubber and gutta-percha wares. Chief buons. Hanover (the ly mined. Manuf. Linens, yarn, thread, osnaburgs, hempen fabrics, machinery, chemicals, and india-rubber and gutta-perchs wares. Chief tunns. Itanover (the cap.), Enden, Göttingen, Osnabrück, Hildesheim, Lineburg, Stade, &c. Pop. (1880) 2,117,629; (1890) 2,278,—361; (1897) estimated at about 2,384,500. Heat. The late kingiom of H. was formed out of the duchies formerly possessed by several families of the junior brauch of the house of Brunswick. Henry "the Proud," third disk of Bavaria, married Gertrude, the ruling princess of Brunswick; their son, well known in the Crusades as Henry "the Lion," was the first Gueiph duke of Brunswick; their son, well known in the Crusades as Henry "the Lion," was the first Gueiph duke of Brunswick and Luneburg are descended. The Reformation numbered the princes of the house of Brunswick among its zealous supporters. Ernest of Zeil, the reigning duke, was one of the most eloquent defenders of Luther at the Diet of Worms. His grandson, Ernest Augustus, married Sophia, a grand-daughter of James I. of England, and on this marriage was founded the claim of the elder branch of the house of Brunswick to the crown of England, acknowledged by the English parliament in 1701. George Louis was the issue of this marriage, and became king of England, under the name of George I., in 1714; from which time till 1837, year of the death of William IV., England and Hanover were under the rule of the same sovereign. The Salic law in 1837 conferred the lianoverian crown on Ernest, duke of Cumberland, 5th, and eldest surviving son of George III. Il 1804, Prussia took possession of H., but ceded it in 1837 conferred the Hanoverian crown on Ernest, duke of Cumberland, 5th, and eldest surviving son of George III. In 1804, Prussia took possession of H., but ceded it in the same year to the French, by whom it was constituted a part of the kingdom of Westphalia established in 1808. At the peace of 1813, the king of Great Britain reclaimed his German dominions, which were nuch enlarged by the stipulations of the treaty of Vienna, and formed into a kingdom. In June, 1808, on the outbreak of the war with Austria, the kingdom of H. was occupied by Prussian troops and in Sent following was formally united with Austria, the kingdom of H. was occupied by Prussiani troope, and in Sept. following was formally united with Prussia, deepite a protest made by the king, George V. Hav'ovar, a city of W. Germany, cap. of above province, and metropolis of the former kingdom of the same name, on the Leine, an arm of the Weser, 84 m. 8. of Hamburg, 62 S.E. of Bremen, and 35 W. of Brunswick. It is built in an extensive sandy plain, and is divided by the river into an old and new town, each of which is governed by a separate magistrate. The former is narrow, ill-built, and dirty; the new town is, on the contrary, open. cleanly, and adorned with handsome streets and buildings. Of the latter the chief are the royal palace, the viceroy's palace, the flouse of Assembly of the States, the mint, arsenal, royal stables, and townhall. H. contains a goodly number of religious, benevicent, and scholastic establishments, besides literary, and sclentific institutions, libraries, lyceums, &c. The commercial organizations include an exchange, a chamber of commerce, and a hery-handlung, or market for

ber of commerce, and a bery-handlung, or market for mining produce. Manuf. Unimportant. — About 1 mile

distant from the city is Herrenhausen, once the favorite residence of kings George I. and III. of England. Psp. (1897) about 190,000.

Han'ever, in Connecticut, a village of New Haven ca., on the Quinepiac river, about 15 m. N. by E. of New on tne Haven.

Haven.

A post-village of New London co.

Ham'ever, in Illinois, a village of Clinton co., on Shoul creek. The post-office is Germanyows.

A township of Cook co.

A post-village and township of Jo Daviess co., on Apple river, about 16 m. 8.8.E. of Galena. Pop. of village and township of Jo Daviess co., on Apple (1890) 743.

—A village of Cook co. **Ham'over**, in *India* a, a post-village and township of

Jefferson co.

A township of Lake co.

A village of Onio co., on Laughery's creek, about 4 m.
S.W. of Aurora.

S.w. of Aurora.

— A township of Shelby co.

Han'ever, in Iowa, a township of Allamaker co.

Han'ever, in Kassaa, a post-village of Washington co.

Pop. (1856) 938.

Han'ever, in Maiss, a post-town and township of

Oxford co.

Oxford co.

Han'over, in Maryland, a post-village of Howard co.

Han'over, in Massachusetts, a post-town of Plymouth
co., about 20 m. S.S.E. of Boston. Pop. (1835) 2.551.

Han'over, in Michigen, a post-village and township
of Jackson co.

Han'over, in Minnesota, a post-village of Wright co.,
25 m. N.W. of Minnespolis.

Han'over, in Nebrasia, a post-township of Gage co.

Han'over, in Nebrasia, a post-town and township of Grafton co., about 55 m. N. W. of Concord. It
is also the seat of Dartmouth College, at which institution some of our most eminent statesmen were educated. cated

Han'over, in New Jersey, in Burlington co. See Na HANOVER.

A post-township of Morris co., on the Passaic River, abt. 5 m. N. of Morristown.

Han over, in New York, a township of Chantanqua

co.

—A township of Butler co.

—A township of Columbiana co.

—A tiwnship of Columbiana co.

—A village of Harrison county, about 75 miles N. by E. of Marietta.

A post-village and township of Licking co., abt. 8 m. R. of Newark. Han'over, in Pennsylvania, a township of Beaver

co.
A former township of Dauphin co., now divided inte
East and WEST HANOVER, q. v.
A township of Lebigh co.
A township of Luserne co.

A township of Northampton co.

—A township of Northampton co.

—A township of Washington co.

—A post-borough of York co., about 18 miles 8.W. of York. Pop. (1897) about 4,000.

Han'over, in Virginia, an E. central co.; crea, about 460 eq. in. Ricers. N. and S. Anna rivers, which unite in this county to form the Pamunkey. Surface, hilly; soil, in general fertile. Cop. Hanover Court-House. Pop. (1890) 17,402.

Han'over, in Wisconsin, a post-village of Rock co., abt. 7 m. S.W. of Jonesville.

Han'over Centre, in New Hampshire, a post-office of Grafton co.

Han'over Centre, in New Hampshire, a post-office of Grafton co.

Han'over Court-House, in Firginia, a post-village and cap, of Hanover co., i m. from the Pamunkey River, and 20 N. of Richmond. Henry Clay was lorn here. A brisk action occurred at this place, May 28, 1862, between a Confederate force, and a brigade of Nationals under Gen. Porter, in which the former were decated, with a loss of 200 men killed and 730 prisoners. Hanove'rian, a. (Geog.) Of, relating, or pertaining to Hanover.

— m. (Geog.) A native, or naturalized citizen of Hanover.

to hanover.

-n. (Gog.) A native, or naturalized citizen of Hanover.

Han'over Haland, an island in the Pacific Ocean, off the W. coast of Patagonia, Lat. 51° S., Lon. 74° 30' W. Han over Junction, in Panarylcunia, a post-office of York co.

Han'everton, or Han'over, in Ohio, a post-village of Columbiana county, about 10 miles W. of New Lis-

Han'over Town, in Virginia, a village of Hanover co., on the Pamunkey River, abt. 16 m. N.N.E. of Rich-

mond Han'overville, in Pennsylvania, a post-village of

Northampton co.

Ham'sard. s. A merchant, trader, or burgher of a

Northampton co.

Han'sard, s. A merchant, trader, or burgher of a Hanse town.

(Eng. Pol.) The name given to the official report of proceedings in the British Houses of Parliament; (so called from the name of the publisher.)

Han'se, Han'sa, or Hanseat'ie League, s.

(Hist.) A celebrated commercial confederacy formed among certain commercial cities of North Germany, in the 13th century, and took its name from the old German word hansa, signifying an association or confederacy for mutual sid. As the commercial cities of the North began to increase in wealth and importance, they came to be harassed by the attacks of pirates and robbers, and various tolls were imposed which interfered seriously with trade. These circumstances at length gave rise, in 1239, to an agreement between Hamburg. Ditmarsch, and Hadeln, and in 1241 a confederacy was formed between Hamburg and Lübeck, in which they mutually agreed to protect each other against all

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violence. This confederacy was joined by Brunswick in 1247. In a short time the number of the members had a much increased, that in 1200 a diet was held at Labeck, the chief city of the league. Regular meetings of the confederacy now took place there every three meetings of the confederacy now took place there every three meetings of the confederacy was to the league were kept there. The confederacy was at its highest degree of power and splendor during the 14th and 18th centuries, and comprised at one time no fewer than 85 cities. These were distributed into four classes or circles. Libeck was at the head of the strate circle, and had under it Hamburg, Bremen, Rostock, Wismar, &c. Cologne was at the head of the strate circle, and had under it. Brunswick was at the head of the four direct, which comprised 13. Datation was the head of the fourth circle, having under it 8 towns in its vicinity, beades several others that were more remote. The supreme authority of the league was vested in the deputies of the different towns seemant in the second of the fourth circle, having under it 8 towns in the two more of the confederacy and other powers, as well as those that frequently arcs between the different members of the different towns seemant in the confederacy and other powers, as well as those that frequently arcs between the different members of the different towns seemant in the confederacy and other powers, as well as those that frequently arcs between the different members of the confederacy. Any one might be chosen a deputy, and, besides merchants, the congress compared to the magnitarties of the cities at the head of each circle, by whom they were subsequently communicated to the magnitarties of the cities at the head of each circle, by whom they were subsequently communicated to those below them; and the most rigorous measures were adopted for carrying them into effect. One of the happen; to be league. Sometimes congresses were accounted to them almost the principal, direction of the faffine of the league. S privileges and immunities from the northern sovereigns, which secured to them almost the whole foreign commerce of Scandinavia, Denmark, Prussia, Poland. Russia, &c. They now declared their object to be to protect themselves and their commerce from pillage, to guard and extend their commerce from pillage, to guard and extend the foreign commerce of the allied cities, and as far as practicable to monopolize it; to manage the administration of justice within the limits of the confederacy; to prevent injustice by public assemblied, diets, and courts of arbitration; and to maintain the rights and immunities received from princes, and, if possible, to increase and extend them. The league exercised a judicial power, and inflicted the greater and lesser ban; any place which incurred these punishments being said to be verdansed. At length there was no mart in Europe that was not gradually drawn within the circle of its influence; and by the greatness of its wealth, and the might of its arms, it became the mistress of crowns, lands, and seas. It conquered Eric and Hakon, kings of Norway, and Waldemar III. of Denmark. It deposed a king of Sweden, and gave his crown to Albert, duke of Mecklenburg. In 1423 it equipped a fleet of 243 ships, with 12,000 soldiers, against Eric of Denmark. In the country under its immediate influence, it constructed canals, and introduced a uniform system of weights and measures. In order to facilitate and extend their commercial transactions, the league established arrives fectories in foreign countries, at London in constructed canala, and introduced a uniform system of weights and measures. In order to facilitate and extend their commercial transactions, the league established various factories in foreign countries, at London in 1250, at Burges in 1252, at Novgored in 1272, and at Bergen in 1278. In London their factory was of considerable size and importance. They enjoyed various privileges and immunities; they were permitted to govern themselves by their own laws and regulations; had the custody of one of the gates of the city (Bishopgate) committed to their care; and the duties on various kinds of imported commodities were considerably reduced in their favor. In the Netherlands, and in Norway and Russia, they enjoyed the like important privileges. The foreign factories were subjected to an almost monastic strictness of discipline, which even required the cellbacy of the factors, clerks, &c. After the middle of the 15th century, the power of the league began to decline, not owing to any misconduct on the part of its leaders, but to the progress of that improvement which thad been at first chiefly confined to these cities, gradually spread from them, as from so many centres, over the contiguous country. The people began to be sensible of the advantages to be derived from commerce and navigation, and their princes also saw it to be for their advantage to encourage such enterprises; while at the means time the roads or seas, were no jonger insecure. ore of the advantages to electrical from commerce and navigation, and their princes also saw it to be for their advantage to encourage such enterprises; while at the same time the roads, or seas, were no ionger insecure. In addition to these circumstances, the interests of the different cities which composed the league were becoming daily more and more opposed to each other; and the discovery of America led to a total revolution in the state of trade. The last diet of the confederation was held at Lübeck in 1630, when the union was dissolved. Hamburg, Lübeck, and Bremen subsequently formed an association among themselves, and remained free republics till 1810, when they were incorporated into the French empire. In 1813 they again became free, and, in conjunction with Frankfort-on-the-Main, were recognized as the Free Hausectic Citica. In 1860, Frankfort-on the Main fell under the dominion of Prussia, and in 1881 were forced into the Zollverein of the German Empire, along with Bremer. Hamburg, and Lübeck.

it may be; by accident; casually; peradventure.

"Happy slumbering on the Norway foam."—Milon.

Happed; (hapt.) a. [From hap, a plaid or wrapper.]

Wrapped; cloaked; covered, as with a plaid; as,
"happed with flowers." (Hogg.)—(Used in Scotland.)

Happem, (hap'n.) v. n. [W. happian; to happen.] To
come by chance; to come abruptly; to come without
one's previous expectation; to fall out; to beful;
as, when do you expect it will happen.—To come to
pass: to occur; to take place; as, the accident happened
yesterday.

To happen on, to light on: to come across. 'come.

yesterday.

To happen on, to light on; to come across; to meet with, an, to happen on a stroke of good-fortune.

Hap'pily, adv. [From happy.] In a happy manner; fortunately; successfully; inckly; prosperously.—In a state of happiness and felicity; as, they are living happily together.—Gracefully; decterously; with ease or address; as, he acted his part happily.

Hap'piness, a. [Leel. happni, happiness.] State or condition of being happy: the agreeable sensations which spring from the enjuyment of good; that state of a being in which his desires are gratified; biles; felicity; enjuyment of picasure, &c.; mental satisfaction.—Good luck; good fortune; prosperity.

"A happiness that makes the heart afraid."—Heed.

—Fortuitous elegance; artless or unstudied grace.

Fortuitous elegance; artless or unstudied grace. "Certain graces and Asppinesses peculiar to every language

Imp'py, a. [Icel. happ, good luck, unlooked-for for-tune, happine, fortunate; W. hapus, happy] Having good hap; lucky; fortunate; successful; as, a happy thought, a happy experiment.

Ye happy mixtures of more happy days." Being in the enjoyment of agreeable sensations from the possession of good; enjoying pleasure from the gratification of the feelings, senses, or appetite; deriving ease, peace, comfort, or satisfaction; contented in mind.

"Happy the man, and kappy he alone, He who can call to day his own." — Dryden

That supplies satisfaction or pleasure, or furnishes en-joyment; as, everything is in happy train.

"Must I leave thee, native soil, these happy walks and shades."

Prosperous; having secure possession of good; in cir-cumstances of solid felicity or content. Dexterous; ready; skilful; able; having capacity or address

"One gentleman is happy at a reply, another excels in a re-joinder."—Swift.

Propitious: significant of good; favorable; promising; as, a happy omen.

Hap'py Camp, in Collyowia, a post-village of Siskiyou oo, on the Klamath river, about 40 miles above Oriesans Bar.

Orieans Bar.

Hap'py Creek, in Virginia, a P. O. of Warren co.

Happy Hol'low, in Kansas, a twp. of Graham co.

Happy Warley, in Tensesses, a P. O. of Carter co.

Happy burg, or Habbs'burg. [Ontracted from

Habichtsburg, Hawk's Castle.] (Hist.) The name of

the reigning imperial family of Austria, derived from

the castle of Hapsburg, or Habichtsburg, on the Wupel
berg, on the right bank of the Aar, in the present Swiss

canton of Aargan. The castle was built in the 11th berg, on the right bank of the Aar, in the present Swiss canton of Aargan. The castle was built in the 11th century, by Werner, bishop of Strasburg, grandson of Guntran "the Rich," count of Alsace and Breisgau, and who is said to have been a descendant of Ethico L, duke of Alemannia and Alsace. The proprietors of Hapsburg became, at a later period, counts of Hapsburg; and, gradually extending their dominions, subsequently assumed the title of landgrave. In 1273, Rodolph, of this house, became emperor of Germany, and the founder of the reigning house of Austria. The subsequent history of this house forms part of the history of Germany and Austria.

tory of this house forms part of the history of disrmany and Austria.

Haquebut, (hak'but,) n. (Mil.) When the hand-gun and arquebus were first introduced, the butt or stock was perfectly straight, and in the form of a stick or broom-handle, which prevented the soldier who was using it from taking a proper aim by directing his eye along the barrel. To obviate this inconvenience and imperfection in the weapon, the Germans fitted the barrel to a hooked butt,—whence the name,—by which means the fire-arm could be discharged from the cheat as before, while an additional facility was given for taking aim at the object towards which the weapon was directed. It was introduced into England about 1485. The H. may be considered as the first step in the long series of improvements in small arms which seem to have culminated in the riflee produced in modern times.

Haquetom, n. A coat of mail.

Har'ald, kings of Norway. The first of the name p. 933; the second succeeded 963, and was killed 978; the third, a. 1017. reigned over half Norway 1047, and was killed 1066; the third, a pretended son of Magnus III., began his career about 1130, usurped the throus, and was vanquished by another pretender 1136.

Har'ald, kings of Demmark. The first of the name known to historians, called the seconth, reigned 930-980; the eighth succeeded 1014, and died in England 1017; the nam'n reigned 1076-80.

Tar'alson, in Georgia, a N.W. co., adjoining Alabama; area, abt. 325 sq. miles. Rivers. Tallapoosa, and other smaller streams. Surface, hilly; soil, fertile. Cap. Bu-

chanan.

Haramuk, (har'a-mook,) one of the Himalaya Mountains, N. of Cashmere; Lat. 34° 26' N., Lon. 74° 43' E.

tains, N. of Cashmere; Lat. 32° 20° N., Lon. 74° ay E. Height, 13,000 feet.

Ha'ram, or rather Charan, called by the Greeks Charan, and by the Romans Charra. It was situated in the north-western part of Mesopotamia, on a river of the same name running into the Euphrates. It is supposed north-western part of Mesopotamia, on a river of the same name running into the Euphrates. It is supposed to have been so called from Haran, the father of Lot and brother of Abraham; but there appears no ground for this conclusion except the identity of names. Abraham, after he had been called from Ur of the Chaldees, tarried here till his father Terah died, when he proceeded to the land of Canaan (Gen. xi. 31, 32; Acts vii. 4). The elder branch of the family still remained at H., which led to the interesting journeys thither, described in the patriarchal history—first, that of Abraham's servant to obtain a wife for Isaac (Gen. xii.), and next, that of Jacob when he fied to evade the wrath of Esau (Gen. xxviii. 10). The plain bordering on this town is celebrated in history as the scene of a battle in which the Roman army was defeated by the Parthians, and the triumvir Crassus killed. H. still retains its ancient name in the form of Harram, and is only peopled by a few families of wandering Arabs, who are led thither by a plentiful supply of water from several small streams. It is situated in a fat and sandy plain, in 30° 40° N. Lat., 30° 2′ 45° E. Lon. Harramgue, (ha-rdny',) n. [Fr.: It. aringo; Sp. arenga, from O. Gen. Aring (the same in Icel., Old Sax., and A. S.), a ring, a circle.] A speech addressed to an assembly, or to an army arranged in a ring or circle; a popular oration; a declamatory public address; rant; noisy declamation.

"Bersangues are beard... in factious expection."—Filten.

noisy declamation.

"Herangues are beard . . . in facti us opposition. v. n. To make a speech to a large assemblage; to indulge in noisy declamation.

dulge in noisy declamation.

-e.a. To address by an harangue or oration; as, the general harangued his troops.

Hairas, n. [Fr.] In France, an establishment for the breeding of race-horses.

Hairass, (hairas, v. a. [Fr. harasser, from Gr. arassō, to strike hard, to dash in pieces; Heb. taras, to pull or tear down, to destroy.] To vex; to molest; to distress; to annoy; to tease; to weary with importunity, care, or perplayir. toan flown, we to tease; to www, or perplexity.

"The grish that Aerose the distress'd."—Joh Addigue to excess; to tire with a mount of labo

-To weary; to fatigue to excess; to tire with a repetition of bodily efforts, or an undue amount of labor.

" Spent with watching, and Acress d out with duty "-Dryde Harasser, s. One who, or that which, harasses or

Har'asser, a. Une who, v. Warries.
Wearies.
Har'assement, n. Act of harassing. (a.)
Harbinger, (harbin-jer,) n. (Ger. herberger; D. herberger, an inn. keeper, both from A. S. herberga — hers, an army, and beorgin, to shelter; scouts being sent out from an army on march to select a proper place to pitch the camp.] A person who goes before to provide harbor or lodgings for those that follow; — hence, in its modern application, a forenuner; a procursor; that which precedes and gives notice of the expected arrival of something else.

thing else.

"The evening star, Love's harbinger, appearance to the star of th Harbingered, a. Ushered by a harbinger.

Harbingered, a. Ushered by a harbinger.

Harbor, in Indiana, a township of Dubois co.

Harbor, Harbour, (hārbār,) n. [A. 3. here-berga—here, an army, and berg, refug, shelter. See HarmsGez.] A place of entertainment and rest; a lodging;

an asylum; a refuge; a shelter.

"Curst be all those easy fools who give it has "Curst be all those easy fools who give it harbour."—Rows.

A port or haven for shipping; an area of navigable water communicating with the sea, or with a navigable river or lake, deep enough to receive large vessels, and protected from the effects of storms or heavy seas. H. must always be accompanied by a roadstead, in which vessels may await the high tides, if the H. should be exposed to their action; and in all cases it is preferable that there should be an outer harbor, in which the ships frequenting the particular port should be able to bring

OOD

up or to lose the way they retain from the open sea. H. are divided into harbors of refuge, tidal harbors, and permanent harbors. In H. of refuge all that is needed is to secure facility of entrance and safe borths for the vessels lying in them, together with great facilities for putting to sea; but as the vessels frequenting H. of this putting to see; but as the vessels frequenting H. of this class are usually destined for some other port, there will be no necessity for making enclosed docks where the ships might be free from the inconvenience of the tides. In tidal H. such inclosed docks are wanted; for large vessels are rarely so built as to allow of their being beached, or unloaded upon the beach, when the ships are left by the tide. Permanent H. may dispense with the works for the inclosure of the shipping; but they

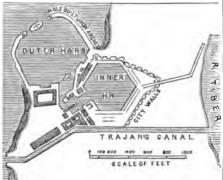


Fig. 1238. - ANCIENT HARBOR OF OSTIA, (At the mouth of the Tiber.)

will be always unfit for the purpose of a commercial port, as ships, unless always at the same level, cannot be economically unloaded: in such seas as the Mediterranean, the Caspian, and the great lakes of N. America, nean, the Caspian, and the great lakes of N. America, this remark does not apply. Practically, permanent H. are either military or civil. The first require large areas of water surface, where the ships may lie in ordinary, as at New York, Cherbourg, Plymouth, Portsmouth, Brest, Toulon, Norfolk, &c.; the latter are usually smaller, and more compact, as Boston, Mobile, Liverpool, Havre, Southampton, Falmouth, Glasgow, London, Bordeaux, &c. The art of constructing artificial harbors may be traced down to the birth of commerce and naval warfars but far above all other ancient neand naval warfars, but far above all other ancient na-tions, the Romans excelled in this branch of marine en-gineering. The port of Ostia, illustrated in Fig. 1238, and which is now 2 or 3 miles inland, has perhaps no and which is now 2 or 3 miles imand, has perhaps not been surpassed in modern times, and is especially re-markable for having a mole with open arches, resting upon stone piers, which gave full play to the tidal and litteral currents, and thus prevented the deposition of sandbanks.

or a. To shelter; to defend; to secrete; to permit to lodge, rest, or reside; to entertain; as, to harbor a guest, to harbor a suspicion. — To protect or secure, as a vessel in distress

• n. To take refuge or shelter; to lodge or abide for a time; to sojourn; to receive entertainment. "Let's harbour here in York. -Shake

Harborage, Harbourage, s. Shelter; rest entertainment. (a.)

"Your king... craves harbourage within your city walls." Shake

Harbor Creek, in Pennsylvania, a post-township of

Har'borer, s. One who gives harbor or shelter; as

entertainer.

Har'bor Grace, a town of Newfoundland, on the W. shore of Conception Bay, about 20 m. N.W. of St. John's.

Har'bor Island, in the W. Indies. See BAHAMA

Har'borless, a. Destitute of a harbor.

Har'bor-master, n. An officer appointed to superintend all business connected with a harbor or port for

intend all business connected with a harbor or port for ships.

Har bortown, in New Jersey, a P. O. of Mercer co.

Har burg, a fortified town of Prussia, in Hanover, 24 m. N.W. of Luneburg, on the right bank of the Ribe, opposite to Hamburg. Manyf. Tobacco, wax, linen, sail-cloth, starch, and gunpowder.

Hard, a. [A. S. heard; D. hard; Ger. hard; Dan. haard; Icel. hard; pobably akin to Pr. hard; and to Gr. kartos, for kratos, strength. Boot Sansk. garatha, hard.] Firm; solid; massive; compact; not yielding to pressure; resisting easy penetration or separation; — correlative of soft; as, a hard stone, hard wood, a hard nut, &c. — Difficult to the understanding; not easily penetrated by the intellect; as, a hard problem. "Hard words, which I was obliged to use." (Arbuthnot.)—Difficult of accomplishment; full of difficulties, obstacles, or contrary influences; painful; laborious; fatiguing; arduous; attended with difficulties or pain, or both; as, a hard task, a metal hard to fuse. — Powerful; forcible; difficult to resist or restrain.

"They are cruegilis with a power which will always be too

"They are struggling with a power which will always be hard for them." —Addison.

Agrator tum. — Joanson.

"Oppressive: cruel: unfeeling: rigorous: not easy to influence or control; difficult to please or touch; as, a hard heart; — hence, abusive; harsh; as, hard words; also, rough: rude; coarse; as, a hard countenance.

"Bough ungovernable passions burry men on to say or do very hard or offensive things."—Atterbury.

Acid: sour: harsh: rough: sustere: as, hard cider. Harsh; stiff; forced; constrained; unnatural; dis-ing to the taste or imagination; as, hard coloring

"His direction is hard, his fingers too bold." -Dryde -Unreasonable; unjust; severe; rigorous; difficult to put up with; not easy to bear; painful to endure or consent to; as, hard work, a hard winter, hard times, hard conditions, a hard lot, &c.

conditions, a nara 101, acc. (Pros.) Abrupt or vehement in utterance; not amouthly or gradually sounded by the tongue; — said of certain consonants, as g in get, and c in carol, as differing from the sound of the same letters in gis, cisdiffering from the sound of the same letters in gin, cislern, &c. — Hard cash, hard money, specie, coin, or metallic currency, as distinguished from paper money. — Hard water, water containing mineral ingredients that decompose soap, and thus make it unsuitable for lavatory uses. — Hard wood, wood of a close grain and solid exture, as teak, greenheart, oak, ash, box, &c. — Hard pan, the indurated stratum of earth deposited beneath the soil.

the son. Hard, adv. With pressure or urgency;—hence, seal ously; diligently; carnestly; as, to plead hard.
"My correspondent... presses hard for an answer."—Atterbury

"My correspondent... presess hard for an answer."—Atterbury.
Unessily; vexatiously; as, it goes hard with our friend.
— With difficulty; laboriously; as, the cable runs hard.
— Closely; distressfully; so as to raise difficulties; as, to be pushed hard for money.— With urgent pressure; vigorously; violently; vehemently;—hence, fast; rapidly; nimbly; expeditiously; as, to run hard.—With great force; tempestuously; boisterously; violently; copiously; heavily; as, it rains hard, it blows hard.

"Down in a dale, hard by a forest side."—Sponser.

Hard us, pressed for ready money; short of cash; des-

Hard up, pressed for ready money; short of cash; destute of means or resources; in a state of poverty and titute of means or resources; in extremity. (Used colloquially.)

being hard up, I lent him a sove "Tom being hard up, I beat him a sovereign."—Bradley.

(Hard is often used in composition in a compound form, as hard-won, hard-fought, hard-hearted, &c. In nautical language it is also employed to give emphasis to words of command with which it is joined; as, hard a-lee! hard a-weather! hard s-port! &c.)

Hard, n. A kind of causeway or pier on the banks of a river, harbor, &c., used as a landing-place for boats; as, the Hard at Portsmouth, Eng.

—Il. Rejuse flax: to.

as, the Hard at Portsmouth, Eng.

—pl. Refuse fax; tow.

Hardamger Fjeld, (hard'an-ger-feeld,) a portion of the great Scandinavian chain of mountains, about 70 m.

N.R. of Bergen, Norway. Average height, 4,000 ft.

Hard'-bake, n. A kind of confection made of baked sugar, butter, molasses, &c.; toffee. (Commonly used in England.)

Hard beam, n. (Bot.) The Thornbeam. See Carburd

HATT BORNER, P. JAN.
PHUS.

Har'deeville, in S. Carolina, a village of Beaufort district, about 20 m. N. of Savannah.

Har'deman, in Transcasee, a B.W. oo., adjoining Mississippi; area, about 560 ag. m. Rivers. Hatchee, and some smaller streams. Aurface, generally level; soil, fartile Cap. Bolivar.

sippi; area, about 000 sq. m. some smaller streams. Narface, generally level; soil, fortile. Chp. Bolivar.

Hard'em. v. a. [A. S. hardian; Icel. hardna; Goth. ghardjan. To make hard or more hard; to indurate; to make firm, solid, or compact; as, to harden wood, steel, or clay. — To confirm in effrontery; to make impudent; to make obstinate, unyielding, or refractory; to confirm in wickedness, opposition, or enmity; to make obdurate, insensible, or unfeeling; as, to harden one's heart. "Years have not yet hardened me." — Swift.

To make hard and strong: to strengthen; to inure; to render firm or less liable to injury by exposure or use; as, to harden one's muscles by constant exercise.

as, to harden one's muscles by constant exercise.
v. n. To become hard or more hard; to become inured;

e. s. To become hard or more hard; to become inured; to indurate, as fiesh; to acquire firmness or solidity; as, clay hardens by exposure to the sun.

To become strengthened, confirmed, or consolidated; used in either a good or bad sense; as, he hardened in

vice.

Har'denberg, Carl August, Prince von, a famous German statesman, born at Hanover, 1760. In 1790 he entered the service of the king of Prussia, whose minister for foreign affairs he became in 1806. At the close of the wars of the first French empire, he signed the treaty of peace at Paris, in 1814. D. at Genoa, 1822. Har'desberg, in Indiana, a village of Jennings co., about 79 m. W. of Cincinnati, O., on the B. & O. Southwestern R. B. The P. O. is HAYDEN. Pop. about 300. Hardened, (Adrd'nd.) p. a. Made hard, or more hard, solid, or compact; made obstinate, callous, insensible, unfeeling; rendered more impenetrable; confirmed in vice or error; as, a hardened reprobate.

Hardeneer, (Adrd'nd.) n. One who hardens or solidifies.

ildifies.

Harderwyk, (har'der-vike,) a fortified town of Gulderland in Holland, on the Zuyder-Zee, 27 m. N.W. of Arnheim. Manuf. Smoked fish, and dyes, and has an extensive trade in grain, timber, and fish. Pp. 6,148.

Hard'-favoured, (-fa'vord.) a. Having a harsh, rugged cast of countenance; coarse-featured; without comeliness.

Manuf. favoured meas. n. Plainness or coarseness of

featured; without comeliness.

Hard'-favoredness, n. Plainness or coarseness of

Hard'-featured, (-fät'yurd,) a. Hard-favored; plain

Hard'-featured, (fet yard,) a. Hard-favored; plain; coarse-featured.

Hard'-fisted, a. Having hard, coarse, or sinewy hands, as from the effects of labor: as, a hard-fisted navvy.—Covetous: grasping: niggardly; parsimonious; close-fisted: as, a hard-fisted usurer.

Hard'-fought, (-fauc), a. Obstinately contested; vigorously striven for; as, a hard-fought battle.

Hard'hack, n. (Bot.) See Spirma.

Hard'-handed, a. Having hard hands; hard-field Hard'head, s. Clash of heads in contest or combat. 'I have been at hardhead with your butting citizens." - Dryd

Hard headed, a. Shrewd; acute; intelligent; as,

a hardheaded lawyer.

Hard'-hearted, a. Having an unfeeling heart; cruel; inexorable; merciless; without mercy or pity;

"John Bull, otherwise a good-natured man, was very I seried to his sister Peg." — Arbesthaes.

Ascried to his sister Pag." — Arbestance.

Hardicamute', or Hardicamute, a king of England, B. 1018, was the eldest son of Canute the Great. On the death of his father, whose viceroy he was in Denmark, Harold, a younger son by Canute's marriage with Alfgiva, daughter of the earl of Northampton, assumed the crown of England, and a bloody struggle was only prevented by the eldest son accepting the sovereignty of the whole country south of the Thames — thus forming the ancient kingdom of Wessex. The chief characteristic of his bachelor life was an inordinate love of eating and drinking; and long after his death by anoshery. and drinking; and long after his death by apoplexy, his subjects continued to celebrate the event, under the title of *Hog's Tide*, or Hock Wednesday. D. at Clapham. 1042.

nam, 1942.

Hard'ihood, s. Quality of being hardy; boldness firm courage; intrepidity; valor; bravery. — Firmms of body derived from laborious exercises. — Excess

or tody derived from incorious exercises. — Excess of confidence; effrontery; assurance.

Hard'ily, adv. With great boldnes; stoutly; in a hardy manner; with firmness or sternness.

Hard'imeent, n. Hardihood; courage; stoutness;

firmness. (R.)

"Zeal was the spring when

"Zeal was the spring whence flowed her hardiment." — Priryma.

Han'dim, in Illinois, a S. co., adjoining Kentucky; crea, about 149 sq. m. Rieers. Ohio, and numerous smaller streams. Surface, diversified; soil, fertile. Cap. Elizabethtown. Pop. (1890) 7,234.

—A post-village, cap. of Calhoun co., on the Illinois river, 30 m. N.W. of Alton. Pop. (1897) about 450.

—A township of Pite co.

Hardim, in Iosea, a N. central co.; crea, about 576 sq. m. Rieers. Iowa river, Tipton, and some other creeks. Surface, level; soil, fertile. Cap. Eldora. Pop. (1895) 20,576.

—A post-office of Clayton co.

Surface, level; soid, fertile. Cap. Eddora. Pop. (1895) 20,576.

—A post-office of Clayton co.

—A township of Greene co.

—A tillage and township of Hardin co.

—A township of Pottswattamie co.

—A township of Pottswattamie co.

—A township of Webster co.

Hardin, in Kentacky, a W. central co.; cres. about 580 sq. m. Bisers. Salt river, Bolling Fork, Nolin, and Rough creeks. Surface, undulating; soil, fertile. Cap. Elizabethtown. Pop. (1890) 21,304.

Hardin, in Missouri, a post-village of Ray co., about 9 m. E. of Bichmond. Pop. (1897) about 700.

Hardin, in Ohio, a N.W. central co.; cres., about 425 sq. m. Bisers. Scioto and Miami, and Blanchard's Fork. Surface, level; soil, fertile. County-cost, Kenton. Pop. (1890) 28,939.

—A post-village of Shelby co., about 5 m. W. of Sidney. Hardin, in Oregon, a precinct of Crook co.

—A post-village of Shelby co., about 5 m. W. of Sidney.

Hardim, in Oregon, a precinct of Crook co.

Hardim, in Tensessee, a S.W. co., adjoining Alabama and Mississipst; cree, about 660 sq. m. Ricera. Tennessee, and numerous smaller streams. Surface, alopes gradually downward from each side toward the river; soil, fertile. Mis. Iron. Cap. Savannah. Pop. 17,698.

Hardim, in Tezas, a S.E. co.; cree, about 940 sq. m. Ricera. Neches, Pine Island Bayou, and Big Cyprom. Surface, generally level; soil, fertila. County-seed, Kountze. Pop. (1897) about 5,000.

—A post-village of Hardin co., about 80 m. E. of Houston.

Hard'mess, a. [Fr. kardisses.] Quality of being hardy; power of endurance.

"Hardness ever of kardisses is mother."—Saks.

-Excess of confidence; assurance; effrontery; boldness. Har'dinge, Henry, Viscount, an English field-mar-Har'dinge, Herr, Viscourt, an English field-marshal, and governor-general of India, born in Durham, 1785. He greatly distinguished himself in the war against France, became secretary of war during the administration of the Duke of Wellington, and in 1844 was sent out to replace Lord Efleuborough as governor-general of India. On the breaking out of the Sikh war, in 1845, he hurried to the scene of action, and generously postponing all questions of dignity, acted as second in command during the fierce conflicts at Moodkee, Ferozeahah, and Sobraon. In 1852 he succeeded Wellington as commander-in-chief of the British army as

Ferozeehah, and Sobraon. In 1852 he succeeded Wellington as commander-in-chief of the British army, an office which he held till his death, in 1855.

Har'dingville, in New Jersey, a post-village of Gloucester co., about 24 m. S. of Camden, on the West Jersey Railroad.

Har'dinsburg, in Indiana, a post-town of Washington co., about 32 m. N.W. of New Albany.

Har'dinsburg, in Kestacky, a post-village, cap. of Breckinridge co., about 120 m. W.S.W. of Frankfort. Pop. (1890) 681.

Hardin Springs, in Kestacky, a post-office of Hardin co.

Hardin co.

Hardin ville, in Illinois, a P. O. of Crawford co.

Hardinsville, in Kentucky, a village of Shelby co., about 9 m. S. W. of Frankfort.

Hard'ish, a. Hard in a certain degree.

Hard'isons Mills, in Tennossee, a post-office of Many co.

Maury co.

Hard Labor. (Los.) A punishment frequently added to imprisonment in those States where the penitentiary system has been adopted. This labor is not greater than that voluntarily performed by many free men, and the quantity required to be performed is not exaggrated.

In the penitentiaries of Pennsylvania it consists in being employed in weaving, shoemaking, and such like employments.

Hard-la/bor (!reek, in S. Carolina, joins Stevens

vering *hardle* what he lost b

Barely; almost not; not quite or wholly; scarcely; as Aardly enough.—Harshly; coarsely; roughly; severely

rigorously.

Hard'mouthed, a. Not sensible to the bit; not easily governed by the rein; as, a hard-mouthed horse.

Hard'mess, n. Quality or property of being hard; firmness; close union of the component parts; compactness; solidity; the quality of bodies which resists impression or separation of their particles; difficulty to be understood, or to be executed or accomplished; scarcity; penury; confirmed state of impenitence or wickedness; coarseness of features; rigor; harshness; roughness, as of equipmes, ingressibilities; coarseless as of equipmes; ingressibilities; coarseless as of equipmes; and generalizes; coarseless and equipmes; and generalizes; coarseless and equipment in the coarseless and except the coarsele

wickedness; coarseness of features; rigor; harshness; roughness, as of sculpture; niggardliness; severe labor, trials, or sufferings; a quality in some kinds of water which unfits it for washing; insensibility of heart.

(Physics.) That condition of the force of cohesion in solids which enables their constituent molecules to retain their relative position, and resist any physical force which tends to alter the figure of the body. H. is entirely different from density: for, although gold and entirely different from density; for, although gold entirely different from density: for, although gold and platinum are denser than glass, yet glass is harder than gold or platinum. Iron and zinc are lighter, but harder, than gold or platinum. Bir Issac Newton supposes the primary particles of all bodies to be perfectly hard, and not capable of being broken or divided by any power in nature; but, with all our extended knowledge, it is impossible to determine, with any certainty, the conditions of the elementary particles which render bodies hard, brittle, maliesble, ductile, &c. Some metals are rendered hard with great readiness. This is of inestimable value in the manufacture of steel especially, which can value in the manufacture of steel especially, which can be varied in H. by heating suddenly, cooling, and then tempering. H. is often accompanied by brittleness; but tempering. H. is often accompanied by brittleness; but this can generally be overcome by heating and slow cooling; this process, however, often takes away from the hardness. In the production of alloys, another useful property is frequently developed. Copper and tin, neither of which is remarkable for H. or elasticity, possess both these qualities when combined; in which form they constitute bell-metal.

(Mm.) The H of a mineral is a valuable means of distinguishing is from a threat of the second control of the second cont

they constitute bell-metal.
(Min.) The H of a mineral is a valuable means of distinguishing it from others closely resembling it. It is the first property a student examines in a specimen. The relative degrees of H. are expressed in numbers according to a scale, the numbers of which represent the H of ten well-known minerals, vis.

1 Talc.

6 Feldspar (cleavable var.),

7 Rock Crystal,

7 Rock Crystal,

3 Calc Spar (transparent), 8 Topaz (transparent),
4 Fluor Spar (crystallized), 9 Sapphire or Corundum,
5 Apatite (transparent), 10 Dismond.

A Pittor Spar(trysseniaes), 10 Diamond.

5 Apatite (transparent), 10 Diamond.

In testing a mineral, if, for instance, it neither scratches nor is scratched by apatite, its hardness is 5. If it scratches apatite and is itself scratched by feldener, its hardness is between 5 and 6, and so on. The substance of the hardness is the parties of the hardness. hardness is between 5 and 6, and so on. The substance known as Carboundum (2, \*\*) is one of the hardness yet discovered, ranking next to the diamond, if not surpassing it in hardness.

\*Haard'-rum, a. Much pressed; in great straits; as, to be hard-rum for time.

\*Haard'halp, \*\*. A hard state or condition; toil; fatigue; privation; severe labor or want; injury; oppression: injustice; annovance; relevance.

tigue; privation; severe labor or want; sion; injustice; annoyance; grievance.

ere exposed to hardship and penury."—Bishop S

"They were exposed to hardship and penury."—Blabop Sprat.

Hard'-fack, n. (Naut.) A term applied by sailors to sea-biscuit or ship-bread;—in contradistinction to soft-tack (i. e. fresh baker's bread).

Hard'-visagred, (vis'a'jd.) a. Coarse-featured; having a harsh, rugged countenance.

Hard'-ware, n. A generic term employed to signify such manufactures as are produced from the commoner or more useful metals; that is, iron and steel, brass and coarse rates and the new contrally correction presents. copper, zinc and tin, and occasionally certain commoner kinds of plated goods.

Hard ware River, in Virginia, enters James River

Hard ware and to the first and the first and town-ship of Worcester county, about 6 miles west of

Hard'wick, in New Jersey, a township of Warren

Mard'wick, in Vermont, a post-village and township of Caledonia co., on Lamoille River, about 20 m. N.N.E.

of Caledonia co., on Lamoille River, about 20 m. N.N.E. of Montpelier.

Hard' wick Cemtre, in New Jersy, a village of Warren co., abt. 3 m. N.E. of Blairstown.

Hard' wicke Island, an island of British N. America in Charlotte Sound, between Queen Charlotte's Island and the mainland.

Hard'y, a. [Fr. Aardi: Norm. hardy: It. ardito, bold, courageous, daring. See HARD.] Bold; brave; stout; daring; resolute.

"And shall sot love's diviner power inspire More hardy virtue, and more gen'rous fire?"—Prior.

—Confident; full of effrontery; having much assurance; impudent; stubborn to excess; as. a hardy beggar.

—Strong; firm; compact; as, a hardy constitution.
"An unwelessome blast may shake to pleose his Aardy fabric."

se blast may shake to pieces his Aardy fabric

-Inured to fatigue: rendered firm by exercise: as, a.

Creek in Edgefield dist.

Hard'-labored, Hard'-laboured, a. Diligently wrought; studied with care and labor; elaborate; as, "a hard-labored poem."—Swift.

Hard'ly, adv. With difficulty; in a hard or arduous manner.

miles N.W. of Prescott.

Har'dy ville, in Kentucky, a post-office of Hart co.

Hare, n. [A.S. hara; Dan. and Swed. hare; leel. hieri, heri; Ger. huse; O. Ger. huso; Sansk. sasa, a hare.]

(Zoll.) See Leponids.

Hare'bell, n. (Bot.) See Campanula.

Hare'brained, a. Wild; unsettled; giddy; volatile;

"That have brained wild fellow begins to play the fool."-Ba Hare'-hearted, a. Timorous; shy; easily scared or intimidated.

intimidated.

Hare hound, n. Same as Harrier, q. v.

Hare Island, an island of Lower Canada, in the St.

Lawrence River, about 95 miles N.E. of Quebec.

Hare lip, n. (Surg.) A congenital or natural deformity, with which children are sometimes born; the upper lip being cleit or divided, either in the centre or a little to the side of the centre, and so called from the peculiar termation of the upper lip of the hare.—This nettermation is manifestated by the about 6. peculiar formation of the upper lip of the hare.—This malformation is sometimes attended with a cleft or fissure along the entire arch of the palate, and in some cases there is a double harelip, the cleft existing on each side of the lip, with a double fissure in the palate, or the absence of nearly all the bony part of the roof of the mouth. In all cases there is much inconvenience in talking, and in severe cases, from the absence of one or two teeth, and the cleft in the mouth, articulation is extremely difficult. The treatment, which is quite simple, consists in cutting the uneven edge of each side of the split lip smooth by a pair of scissors or a knife, till the breach presents the appearance of the letter V reversed (A); two or three fine silver pins or needles are till the breach presents the appearance of the letter V reversed (A); two or three fine silver pins or needles are then passed through each flap, and a piece of slik thread wound in the form of a figure or from head to point of each pin, till the two raw edges of the flap are brought close together, where they are to be kept so for some days, till a perfect union by the first intention takes place, the patient being kept on a liquid or very soft diet till the union is perfect.—When that is the case, the threads are to be cut, the needles or pins withdrawn, and the part secured for some time longer by strips of the best adhesive plaster. This operation, to be encoessful, should be adopted early—as soon, in fact, as the infant's or child's strength can bear it.

Harreim, n. [Ar. harrem, anything prohibited, muharram, prohibited, from harram, to prohibited, muharram, prohibited, from harram, to prohibit.] The name given to those apartments in the houses of the East, which are appropriated to the exclusive use of the femiles of the family. See Seracio.—The collective number

which are appropriated to the exclusive use of the femiles of the family. See SERAGILO.—The collective number of wives and concubines pertaining to one man.

Haren 'giform, a. [Fr. haren, herring, and forme, form.] Having the shape or form of a herring.

Hare'-paipe, n. A trap to catch hares.

Hare's-tail-grass, n. (Bot.) See Sonchus.

Hare's Valley, in Pannaylvania, a post-office of Huntingdom.

tingdon co. Hare'wood, in New York, a P. O. of St. Lawrence co.

Hare wood, in New York, a P. O. of St. Lawrence co. Hare wood, in W. Yo., a post-village of Fayette co. Har fang, a. [A. S. Aera, have, and fangus, to catch.] (Ornith.) The great snowy owl. See Own. Harfleur (här far), a town of France, dept. Seine-Inferieure, at the confluence of the Seine with the Lézarde, 5 m. E.N.E. of Havre, and 1 m. from the sea. Its

zarde, 5 m E.N.E. of Havre, and 1 m. from the sea. Its harbor, once good, is now nearly filled up. Pop. 2,100.

\*\*Harford, in Maryland, a N.E. co., adjoining Pennsylvania; area, about 422 eq. miles. Birers. Susquehanua river, Deer Creek, and smaller streams. Surface, diversified; soil, fertile. Mis. Irou, limestone, and granite. Cap. Belair. Pop. (1890) 28,983.

—A village of Harford co., abt. 25 m. E.N.E. of Baltimore.

\*\*Harford, in Pennsylvania, a post-township of Cortland co., about 140 miles W. by S. of Albany.

\*\*Harford, in Pennsylvania, a post-township of Susquehanna co., about 10 m. S.E. of Montrose.

\*\*Harford Furnace, in Maryland, a post-office of Harford co.

Harford Furnace, in Maryland, a post-office of Harford co.

Hargreewes, Jakes, (har/graivez.) a celebrated English mechanician, who, while working as a poor weaver at Btanhill, in Lancashire, conceived the idea of imitating, by machinery, the action of the spinner scated at her wool-wheel; by means of which the "roving" of wool could be extended indefinitely; and, after having been twisted, wound on the cope or spindle. This was the origin of the celebrated "spinning jenny;" and even at the period of its first construction (1767) it produced more work than the combined efforts of thirty spinners with the old wheel. Arkwright and others have since completed the invention; the machinery of cotton-spinning being, at the present day, among the very best and simplest of sil mechanical contrivances. The cotton-spinners, who had hitherto worked by hand, imagining that their trade would be ruined by the new machine, besieged the house of the inventor, and endeavored to destroy his "jennies." H. removed to Nottingham, and very shortly after, his invention was supersected by the improvements effected by Sir Richard Arkwright; and he died in poverty, about 1770.

hardy explorer.—Capable of bearing exposure to cold winds and weather; as, a hardy plant.

—n. A tool used by blackeniths.

Har'dy, in Ohio, a township of Holmes co.; pop. about 2,100.

Har'dy, in W. Virginia, a N.E. co., adjoining Virginia and Maryland; area, about 400 sq. miles. Rivers. South branch of the Potomac, North, Cacapon, and Lost rivers. Surface, broken and mountainous; soil, in the valleys ferille. Mis. Iron. Cap. Moorefield. Pop. (1890) 7,576.

Har'dyville, in Arisona, a former pust-office and village of Mohave co., on the Colorado river, about 150 miles N.W. of Prescott.

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Har'dyville lous, a thorough rogue in fact, turns up under all possible disguises, and in all possible places—sermonising, poetizing, telling adventures and tales of all kinds—always amusing, and always getting money out of his audience. The brilliancy of imagination and wit displayed in these strange adventures, their striking changes, and dramatic situations, have hardly ever been equalled; but more wonderful still is the poet's power of language. The whole force of the proverbial fulness of expression, spirit, elegance, and grandeur of the Arabic idiom. H. has brought to bear on his subject. His work—of which one of the greatest Arabian authorities has said that it deserved to be written in gold—las indeed become the armory as well as the mine of all Arabic writers since his day. Poets and historians, grammarians and lexicographers, look upon the Makytowsha as the highest source of authority, and next only to grammarians and exicographers, row upon the assuments as the highest source of authority, and next only to the Koran, as far at least as language is concerned. His book has been translated, either entirely or partially, book has been translated, either entirely or partially, into nearly every Eastern and Furopean tongue, and has been the prototype of innumerable imitations, the most successful of which is the one in Hebrew, Tachkemoni, by Jehuda Al-Charisi. The first complete edition of the text appeared in Calcutta, 1809-1814, in 3 vols.; another by Caussin de Perrival, in Paris, 1818: one much more valuable, chiefs on secont of its compensators by Stiller. valuable, chiefly on account of its commentary, by Silvestre de Sacy, appeared in Paris, 1821–1822, (re-edited

Hark, r. n. [Contracted from hearken.] To listen; to lend the ear; to hearken.

"Pricking up his cars to hark." - Hudibe

interj. Listen! hear! hearken!

" Hark, hark ! the lark at heaven's gate sings.

Hark, in Illisois, a village of Shelly co.
Harker's Corners, in Illisois, a P. O. of Peoria co.
Harl, a. [O. H. Ger. karlap, rope.] The filaments of flax or hemp.
Harlam, in Isdiana, a post-office of Allen co.

Harlan, in lose, a township of Fayette co

Harlam, in loser, a township of Fayette co.

—A township of Page co.

—A thriving town, cap. of Shelby co., about 48 miles N.E. of Council Bluffs. Pop. (1887) about 2,500.

Harlam, in Kassac, a post-village of Smith co.

Harlam, in Kestacky, a S.E. co., adjoining Virginia; creat, about 410 sq. m. Bicers. Cumberland river, and numerous smaller streams. Surface, rugged and mountainous, the Cumberland mountain forming the S.E. houndary; and in some places fertile. Miss I you and tainous, the Cumberlaud mountain forming the S.E. boundary; soil, in some places fertile. Min. Iron and coal. Cap. Harlan. Pop. (1880) 6,197.

—A post-village, cap. of the above co.

Har'lensburg, in Pennsylvasia, a post-village of Lawrence co., on Slippery creek.

Har'leesville, in South Carolina, a township of Marion on, on the Little Pedee, about 100 miles E.N.E. of Columbia.

of Commun.

Har'lem, in Holland. See Harlem.

Harlem, in Illinois, a township of Stephenson co.

—A post-village and township of Winnebago co., about 6 miles N.E. of Rockford.

Harlem, in Missouri, a post-village of Clay co.

Har'lem (old spelling Harlem), in New York, was a settlement on Manhattan Island, at the junction of East and Harlem rivers, about 7 miles from the Battery. It has been for many years a part of the city of New York, and Harlem rivers, about 7 miles from the Battery. It has been for many years a part of the city of New York, although the region named is still known as H. Harlem, in Ohio, a village of Carroll co., about 27 m. W.N.W. of Steubenville.

—A post-village and township of Delaware co., about 16 m. N.E. of Columbus.

—A post-village and township of Delaware co., about 16 m. N.E. of Columbus.

Harlem Springs, in Okio, a post-vill. of Carroll co. Harlem Springs, in Okio, a post-vill. of Carroll co. Harlem Springs, in Okio, a post-vill. of Carroll co. Harlem burgs, in Pessagleasia. See Harlansuma. Harlequilm, (harlo-kwin,) s. [Fr. The name is said to be derived from an Italian comedian who, from frequenting the house of M. de Harlay at Paris, in the reign of Henry III. of France, was called Hurlequino or "Little Harlay." This etymology, however, is incorrect, as the word was used before that period.] (Theatricals,) The name of a personage who figures largely on our stage in the pantomimes, and who has been borrowed from the Italian. The origin of the personage is a matter of dispute. Probably, however, the character has been handed down from the ancient Greek or Roman dramas. Riccobini conjectures that the dress of the harlequin is no other than the centunculus of the old Roman wimi, who had their beads shaved, and were called planipedes. Harlequins and buffoons are also called somniby the best Tuscon writers, probably from the Latin samio, of which Cicero (De Oratore, il. 61) gives a description applying so strongly to the harlequin as to place his derivation from the planipedes almost leyond a doubt. The character of the ancient harlequin was a mixture of extravagant buffooners with great corporal agility, while his expressions were-characterized by

impudence, drollery, satire, and often indelicacy. His

character, however, changed about the middle of the 16th century. He became a simple, ignorant servant, who as-sumes all colors and is easily induced, through fear or interest, to commit all sorts of tricks or knaveries. He excels in extempore sallies, and tries very hard to be with a even at the exty, even at the ex-pense of being malipense of being mali-cious. In other countries, where in-troduced, his char-acter has been more or less modified.— See PANTOMIME.



Fig. 1239. - HARLEQUIN.

Harlequinade, (har'le-kwin-āde,) n.

(Theatricals.) In pantomine, the term given to the after-part of the entertainment, or that which follows the transforma-

entertainment, or that which follows the transforma-tion scene. The four leading characters of the H. are harlequin, columbine, pantaloon, and clown. Harlequin-duck, n. (2001). The Histrionicus torquotus, or (Tangula histrionica, a magnificent species of the Anataka found on both continents; it derives its

name from the singularity of its markings. It is 17 inches in length, and 28 inches in extent; the bill is of a lead color, tipped with red; upper part of the head black; between the eye and bill a broad space of white, extending over the eye, and ending in reddish behind the ear a similar spot; neck black, ending below in a circle of white; breast deep slate; shoulteness the ear a similar spot; neck black, ending below in a circle of white; breast deep slate; shoulteness the ear a similar spot; neck black, ending below in a circle of white; name from the singularity breast deep slate; shoul-ders marked with a semicircle of white; belly black; sides chestunt; body above, black, or



Fig. 1240. HARLEQUIN-DUCK. (Clangula histrionica.)

body above, black, or (Crangula Matricasca.)
deep slate; some of the scapulars white; greater wingcoverts tipped with white; lens and feet deep sah; vent
and pointed tail black. It swims and dives well; files
swift and to a great height; and has a whistling note.
The female lays ten white eggs on the grass; the young
are prettily speckled. At Hudson's Bay, where it breeds,
and is said to frequent the small rivulets inland, it is
called the Frinted Duck; at Nowfoundland and alone,
the coast of New England, the Lord. It is an admirable
diver, and is often seen in deep water considerably out
at sea.

Harleysville, in Pennsylvania, a post-office of

Montgomery co.

Harlingen. [Fris. Harus.] A fortified town of W.

Friesland, in Holland, ou the Zuyder-Zee, 65 m. N.N.E.
of Amsterdam. It has an active trade with the Baltic.

of Amsterdam. It has an active trace with the Dalite. Pop. 9.085.

Har'lingen, in New Jersey, a post-village of Somerset co., abt. 9 m. 8.8.W. of Somerville.

Har'lot, n. [Corrupted from A. 8. horelet, from hyrian, to hire. See Whore.] A woman who prostitutes her body for hire; a strumpet; a prostitute; a whore; an abandoned woman; a nymph of the pave; accourtesan; a bona voha: a doxy.

roba; a doxy.

a. Lascivious; lewd; wanton; base; low.

—a. Lascivious; lewid; wanton; case; low.

Harlotry, n. Trade or practice of proetitution; licensed fornication; habitual or customary lewdness.

Harm, n. [A. S. hearm or harm; Dan, Swed, and Go. harm, grief, offence; Icel. harmr, probably akin to O. Ger. gram, angry, gramiz, sad.] Injury; hurt: detriment; damage; misfortune; moral wrong; evil; mischleft, with refuser. ment; damage; misfortune; moral wrong; evil; mis-chief; wickedness. e. a. [A.S. hearmian.] To hurt, injure, or damage; to

inoffensive; innocent; unoffending.—Not receiving damage or injury; unharmed; uninjured; not guilty of crime or wrong; as, to hold a person harmless with respect to consequences.

Harmilessity, adv. Innocenty; without fault or crime; without or damage.

Harmilessiness, s. Quality of being harmless or innoxious; freedom from a tendency to injure; innocence.

"When in dough baked men some Asymics mass we see,
Tis but his phlegm that's virtuous and not he."—Do

The but his passements as a virtuous and not not.—Journes.

Harmod'dius and Aristog'itou, two Athenians, strongly attached to each other, who murdered (514 s.C.)

Hipparchus, the younger brother of the tyrant Hippias, on account of an insult offered by him to the sister of Harmodius. They meant to kill Hippias also, with a view to the overthrow of the Pisistratides, but in this they did not succeed. H. was cut down by the body-mod lumedistate after the murder of Himparchus: A. view to the overthrow of the Plastratide, but in this they did not succeed. H. was cut down by the body-guard immediately after the murder of Hipparchus; A. fied, but was afterwards taken and executed. As Hippias was banished from Athens a few years later, H. and A. naturally came to be regarded as patriotic martyrs; and in this light they appear in all subsequent Greek history. They received divine honors from the Athensan, and had statues raised to their memory. A very beautiful drinking-song on this subject has been handed down to us in the Greek Schotta.

Harmonia. [In: Armonia.] (Myth.) According to some versions, a daughter of Ares and Aphroditê. Be became the wife of Cadnus, the founder of Thebes, from whom she received the fatal necklace which brought about the deaths of Amphiliaos and Eriphyle.

Harmonic, Harmonicals, a. [Fr. harmonique; Gr. harmonics.] Having harmony; concordant; consonant; musical; as, harmonical sounds, an harmonic suclety.

(Mus.) Relating to harmony, as distinguished from melody: relating to harmonics, or the doctrine of chords, &c.—Whatever appertains to harmony; as, the har-monic divisions of the monochord, the harmonic pro-

monic divisions of the monochord, the harmonic proportions, &c.

H. Mean. (Arith. and Algeb.) The second term of the harmonic progression, whose first and third terms are given quantities, is termed the harmonic mean of the latter; — hence, since the reciprocals of quantities in harmonic mean is the reciprocal of one half the sum of the reciprocals of the given quantities. Generalizing this definition, the harmonic mean of any number of quantities is the reciprocal of the nth part of the sum of their reciprocals. — H. Triad. (Mus.) The chord of a note consisting of a third and perfect fifth, or, in other words, the common chord. — H. Progression or Series. (Arith.) A series of numbers such that any three consecutive terms are in harmonic proportion. The prinwords, the common chord.— II. Progression of account (Arith.) A series of numbers such that any three consecutive terms are in harmonic proportion. The principal property of this progression is, that the reciprocals of the terms form an arithmetical progression, and, conversely, the reciprocals of an arithmetic form an harmonic progression.— H., or Musical, Proportion. Three numbers are said to be in harmonical proportion when the first is to the third as the difference of the first and second is to the difference of the second and third;—thus, 2, 3, and 6 are in harmonical proportion, because thus, 2, 3, and 6 are in harmonical proportion, because 2:6::1:3.—H. Interval. (Mus.) Any interval which has definite harmonic relations between the numbers of vibrations of its constituent notes.

of vibrations of its constituent notes.

Harmon'ica, a. (Mus.) See Harmonics.

Harmon'ica, a. [Lat. harmonicus.] (Mus.) An instrument invented by Dr. Franklin, now seldom or never used, and which derived its origin from the musical glasses. Its sounds are produced from glasses blown as nearly hemispherical as possible, each having an open neck or socket in the middle, into which a perforated cork is fitted. Near the brim the glass is about one tenth of an inch thick, but increases towards the neck, which is in the largest about one inch deep and half an inch wide within, the dimensions lessening in proportion as the glasses diminish in size, all excenting the smallest. as the glasses diminish in size, all excepting the smallest, which ought not to be less than half an inch in length. The largest glass is nine inches in diameter, and the smallest three; between these there are twenty-three different sizes. They are distinguished by painting the appurent parts of the glasses on the inside —every semitone white, and the other notes of the octave with the seven prismatic colors, so that glasses of the same color, white ones excepted, are always octaves to each other. ment; damage; misfortune; moral wrong; evil; mischele; wickedness.

—v. a. [A.S. hearmian.] To hurt, injure, or damage; to impair, as soundness of body.

Harmaline, n. ((Them.) A yellow crystallizable substance obtained from the seeds of Peganum harmala. It is soluble in dilute acid and alcohol. The plant is found in Southern Russia, and the seeds are used in dyeing.

Harmar, in Ohio, a village of Washington co., on the Muskingum river, opposite Marietta. Pop. (1891) 1,684.

Harmarville, in Pennsylcania, a post-village of Allegheny co.

Harmattan, n. [Fr.: Sp. harmatan; It. armatano] (Meterol.) The dry parching wind prevailing on the coast of Africa, between Cape Nord and Cape Lopez, in the months of December, January, and February. It much resembles the zirocco in its character.

Harmactul, a. Pull of harm; injurious; noxious; detrimutal; mischlevous.

"Steepy popples harmals harrests yield."—Dryden.

Harmafull, a. Pull of harm; injurious or harmful manner.

Harmafull, a. Pull of harm; injurious; invious detriting of harmony, as distinguished from metody.

Harmonfull, a. Character, injurious or harmful manner.

Harmafull, a. Pull of harm; injurious; joxious; detriting of harmony, as distinguished from metody.

Harmonfull, a. Ruttulness; injurious or harmful manner.

Harmafulle, n. (Chem.) A compound obtained by the oxidation of harmaline. Phrm. C<sub>13</sub>11<sub>12</sub>N<sub>2</sub>).

Harmonfull, a. Not hurtful or injurious; jonuocuous; junocuous; j

mony; having the parts adapted or proportioned to each other; symmetrical. " All the Aurm s worlds on high." -- Couries

Concordant; consonant; symphonious; musical; melo

"Thoughts, that voluntary move Harmonious numbers." -- Mills

Agreeing in action or sentiment; living in peace and

 Agreeing in action or sentiment; living in peace and friendship; as, an harmonious couple.
 Harmo'miously, ade. With just adaptation and proportion of parts to each other; with accordance of sound; musically; in concord; in agreement; in peace or friendship.

Harmo'niousness, n. Quality of being harmonious or musical; proportion and adaptation of parts; agreement; concord.

ment; concord.

\*\*Harmoniphon\*\*, (har-mön'i-fön,) n. [Gr. armonis, harmony, and phone, sound.] (Mas.) A wind-instrument played with keys. The air, blown from the mouth through a tube, acts on thin metallic plates to produce

through a tube, acts on thin metallic plates to produce the sound.

\*\*Max'\*momfat\*\*, n. [Fr. harmoniste.] One who brings together corresponding passages, as of the four gospels, to show their agreement.— [Mus.] One skilled in harmony; a musician; a composer of music.

\*\*Har'\*momfats\*\*, \*\*Har'\*momfates\*\*, n. pl. (Eccl. Hist.)\*

A sect founded by George tapp, a mative of Würtesubseg.

1770. He and his followers emigrated to this country in 1803, and established themselves near Pittsburg, in Penns, Ivania, where they founded what they termed the Pare Apastolic Church, living in a kind of social brotherhood, having all things in common, and the like times for rest and enjoyment. They subsequently removed to Iudiana, but in 1824 founded the colony of Economy, I7 m. N.W. of Pittsburg, that soon became a very prosperous village. Rapp died in 1847, and was succeeded as head of the H. by Mr. Becker. The H. profess the Protestant religion and universal toleration. They admit members of both sexes, but they do not marry. They keep watch by turn at night, and observe strict morality. They cultivate the learned languages, liberal protessions, and tivate the learned languages, liberal protessions, and music. Offences are punished by reprimends, temporary exclusion from the church and social intercourse, and expulsion

Expunsion.

[From harmony.] (Mus.) An isstrument which bears some affinity to the organ, but, unlike that instrument, is made upon a principle technically termed the free vibrating read, which is maid to have been known from an early period in China, but was invented by Grenié in 1810, and first described by Biot in cally termed the free wibrating reed, which is said to have been known from an early period in China, but was invented by Grenis in 1810, and first described by Biot in 1817. The free reed consists of a brass plate containing an oblong slit, having a thin elastic tongue fixed to one end, in such a manner, and so exactly fitting into the elia, as to completely close it, but so that it will, upon the pressure of the wind on the free end, pass either inwards or outwards, without touching the end or sides. It has several advantages over the beating-reed of the organ. In the first place, its tone is of a more agreeable quality; secondly, it requires no pipe, which is an indispensable addition to the organ; thirdly, it is much less liable to get out of order; and, fourthly, it gives an entirely new property,—viz., the power of expression. Debain, of Paris, was the first to construct a keyed instrument upon the free-reed principle of a really useful character. Several attempts had been made, but all had more or less failed, until Debain invented the harmonium. This instrument is about 3 feet high by 3 feet 9 inches broad, its depth varying according to the number of stops. The key-board is immediately below the lid, and its compass extends five octaves, from C to C. This now, however, in the best instruments, is virtually converted into seven by the more perfect arrangement of the stops. The valves are beneath the key-board and on top of the wind-box, within which are the different rows of reeds, the pitch of which is regulated by their size, which varies from half an inch to 3½ inches in length, whilst the quality of the sound is modified by means of believs with two feeders, which the player moves alternately with his feet. For the deep bass notes the aprings are heavily loaded at the loose end, to make them vibrate slowly; while for the higher notes they are made thinner at that end. Some larmoniums have only one row of reeds, others four; some also have two rows of keys. Lately, a "knee movement" has been introduc

a duet. To agree in action, feeling, sense, or purport; as, the two stories harmonize.—To be in peace or friendship; as, how often do a man and his mother in-law harmonize?

law harmonie?

—e. a. (Mus.) To bring into harmony; to make harmonious or musical; to set accompanying parts to.—
To cause to agree; to adjust in suitable proportions; to reconcile apparent discrepancy in.

Harmoniser, n. One who harmonizes, brings together, or reconcile; a practical hormonist.

Harmonom'eter, n. [Gr. armoniz, and metros, measure.] An instrument for measuring the harmonirelations of sounds.

Har'monsburg, in Pennylvania, a post-office of Crawford co.

Crawford co.

Crawford co.

\*Har'mony, n. [Lat. harmonia; Gr. armonia, from harmonia, to fit or adjust together, to join, from cls. arts to fit; to adapt.] The just and fit adaptation of parts to each other, in any system, plan, or composition of things.

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intended to form a connected whole; as, harmony of | —A post-village and township of Vernon co., on Bad Axe abape, the harmony of the universe, &c. — Concord; agreement; accordance in facts; agreement in opinions, interests, manners, &c.; good correspondence; peace and friendship; as, the two families live in harmony to gether.

"My heart... by a secret hermony still moves with thine." Hilton.

The agreement or consistency of different histories of
the same events; a literary work which brings together
parallel excerpts respecting the same events, and shows
their agreement;— used chiefly with application to the
correspondence of the several writers of different parts
of the Scriptures in their respective narratives, or
statements of doctrine. The earliest Harmony of the
Grappis was composed by Tailan, in the 2d century,
with the title Dialessaron Among other works of this
kind may be mentioned, Oslander's Harmonia Erangelica; Cartwright's Harmonia Erangelica; Cartwright's Harmonia Erangelica Commentaria Illustrata (1647); Le Clerc's Harmonie Erangelique
(Amsterdam, fol. 1699); MacKnight's Harmony of the
Power Gaspels (1756); Greewell's Harmony and Dissertation, (Oxford, 1830.)

(Painting.) The general accordance of the objects in My heart . . . by a secret & one still moves with thine." Milto

testion, (Oxford, 1830.)

(Funting.) The general accordance of the objects in a picture with one another, and their subordination to the principal object; so that all unite to constitute a pleasing whole. It is effected by a due combination of lights and shades, by the union and color, or by such contrasts as are sufficient to relieve the distant groups.

(After.) The agreement of two or more united sounds. It may be either natural or artificial; the former consisting of the harmonic triad, or common chord, and the latter of a mixture of concords and discords bearing.

stating of the harmonic triad, or common chord, and the latter of a mixture of concords and discords, bearing relation to the harmonic triad of the fundamental note. With the Greeks, the word H. was in all probability imited in its signification to that agreeable succession of sounds which is now called air, or melody; while in modern music it is not employed to designate a mere succession of unaccompanied sounds, but a union of melodies, a succession of combined sounds, composed of consonant intervals, and moving according to the stated laws of modulation. H. is the combination of sounds and the succession of chords, and may be said to combine the life and soul of music. The ancients knew very little of harmony, and it has not yet been introduced into the music of the Chinese and other Eastern nations. It is a comparatively modern invention. The laws regulating the succession of chords were at first rather arbitrary. (See Chord.) H. may be divided into simple and compound. Simple H. is that in which there is no opecard to the fundamental above an octave. Comis no concord to the fundamental above an octave. Compound harmony is that which to the simple harmony of an octave adds that of another octave. From the union of H. and melody music is formed. Although union of H, and melody music is formed. Although melody may exist without harmony, H, cannot exist without the melodious arrangement of each of its several parts. Melody is distinct from H, in that it is a succession of musical sounds, while harmony is produced by their combination. Every chord, whether consonant or dissonant, forms harmony. All harmony in music is derived from what is called the aliquot tones. If a string be made to vibrate, the sound produced at first appears to be single; but upon a closer and more careful observation, it will be found that the fundamental sound, more especially if it be a deep one, is accompanied by others in the most perfect harmony. These accompanying sounds are exactly those on which the chords in music are formed, and on which the foundation of the whole system of harmony is built. Some of the best works on harmony are those by Albrechtsof the best works on harmony are those by Albrechte-berger, Dr. Marx, and Professor Dehn.

Har monny, in Illinois, a township of Hancock co.— A put-village of McHenry co., about 55 m. N.W. of Chicago.

Chicago,

Har'mony, in Indiana, a post-town of Clay co., about

19 m. E.N.E. of Terre Haute. Pop. (1880) 1,020.

—A township of Union co.

Har'mony, in Iosa, a village of Taylor co.

Har'mony, in Kassas, a post-office of Pawnee co.

Har'mony, in Kestucky, a post-village of Owen co.

Har' mony, in Memery, a post-vininge of Owen co.
Har' mony, in Meine, a post-town and township of
Somernet co. Pop. 704.
Har' mony, in Minnesota, a township of Fillmore co.
—A post-village of Fillmore co., on Clifc., Mil. & St.
Paul R.R. Pop. (1895) 325.
Har' mony, in Missouri, a village of Washington co.,
about 80 m. S.W. of St. Louis.

about 80 m. 8.W. of St. Louis.

—A township of Washington co.

Har'mony, in New Jersey, a village of Monmouth co., about 14 m. N.E. of Freehold.

—A village of Morris co.

—A post-town of Warren co.

—A post-town of Warren co.

Har'mony, in New York, a village of Chautanqua co.

Har'mony, in Ohio, a village and township of Clarke co., about 7 m. E. by 8. of Springfield.

—A township of Morrow co.

—A township of Forest co.

—A township of Forest co.

-A township of Forest co.

-A township of Susquehanna co.

Har'mony, in Rhode Island, a post-village of Providence co. Prop. (1890) 379.

Har'mony, in South Curolina, a post-village of York co., about 100 m. N. of Columbia.

Har'mony, in South Dakota, a township of Jerauld co.

—A township of Spink co.

Har'mony, in Tensessee, a post-village of Washington

Har'mony, in Virginia, a post-village of Halifax co., about 110 m. S.W. of Richmond.

Har'mony, in Viscousia, a township of Rock co.

HARO

river, about 10 m. W. by N. of Viroqua.

Har'mony, in West Virginia, a village of Roane co., about 5 m. N. W. of Spencer.

Har'mony Grove, in Georgia, a post-village of Jackson co., abt. 100 m. N. of Milledgeville.

Harmony of the Spheres. (Phil.) Many of the ancient philosophers held that the regular movements of the virolus havenly bodies thereby here were restored. of the various heavenly bodies through space produced a kind of H., which they called "H. of the Spheres." They attributed this music to the various proportionate impressions of the heavenly bodies on one another act-ing at proper intervals. Kepler wrote a work on the harmonies of the world, and particularly of the celestial bodies

bodies

Harmony, (Pre-established.) (Phil.) An hypothesis invented by Leibnitz, to explain the connection that subsists between spiritual and material substances. He holds that God, before creating the soul and body of man, had a perfect knowledge of all possible souls and all possible bodies. Among this infinite variety of souls and bodies it would be impossible but that there should be souls whose series of perceptions and determinations would correspond to the series of movements which some of these possible bodies would execute. Now supposing that of such a soul and such a body God should make man, it is evident that between the two substances which constitute this man there the two substances which constitute this man there would subsist the most perfect harmony. These would have no communication, no mutual influence, the one nave no communication, no mutual influence, the one upon the other; each would act by virtue of its own nature, like two clocks accurately regulated, which point to the same hour and minute, although the spring which gives motion to the one is not the spring which gives motion to the other. This harmony being established before the creation of man is hence called the

lished before the creation of man, is hence called the pre-established or pre-determined harmony. This doctrine is frequently alluded to in philosophical works; but it is needless to attempt any refutation of it, as it is at best merely an hypothesis, and was probably regarded even by the author himself more as a specimen of ingenuity than as a serious doctrine.

\*\*Har'most.\*\* n. \*[Gr. armostês, from armosê, I ît.]\* (Anc. Hist.) A Spartan magistrate, called also, sometimes, Sophronistes (moderator), who was appointed to govern a conquered state. It is conjectured from Thucydides, iv. 53, that the office was annual. Other Greck States which made conquests afterwards borrowed the name. Xenophon speaks of Theban harmoste in Achais.

States which made conquests afterwards borrowed the name. Kenophon speaks of Theban harmoste in Achaia.

Int'imotoume, s. [Gr. harmos, joint, and temno, to cut or cleave, from the manner in which its crystals divide.] (Min.) A silicate of a lumina and baryta occurring in white crystals, sometimes gray, red. brown, or yellow, and of a vitreous lustre. The crystals are rectangular prisms, often twins, found at Stroutian, Scotland, Andreasburg in the Hartz Mis., and elsewhere. Sp. gr. 24-245. Ossp. Silica 46°5, alumina 15°9, baryta 23°7, water 13°9.

Har'nageville, in Georgia, a village of Pickens co. Har'nersville, in Pennylvania, a post-village of

Somerset co.

In remujeration, a post-rinage of Somerset co.

In remains: It. arness: Ger. harnisch; W. harnais, from hurn, that which apily closes upon or fits.] Armor; the whole accountrements or equipments of a knight, or horseman; a horse's armor (Fig. 1241). "A goodly knight, all dress'd in herness meet."

The furniture, equipments, or trappings of a carriage or draught-horse; tackling.
(Weaving.)
Part of the

machinery of a loom. v. a. To dress

in armor; to equip with armor for war, as a horseman.
(o.)—To put on,
as the furniture or body-gear of a horse for draught.

"My horse is har-ness'd .. to my plough. '— Hale.

To equip; to furnish; to socoutre.



Fig. 1241. KNIGHT IN PULL HARNESS.

Har ness-cask, n. (Naut.) A cask or barrel lashed or harnessed to a ship's deck, containing a supply of

or harnessed to a ship's deck, containing a supply of salted meats for dally consumption.

Har'nesser, a. One who harnesses.

Har'nett, in North Carolina, a central co.; area, about 560 eq. m. Ricers. Cape Fear and Little rivers, besides some smaller streams. Surface, uneven; soil, fertile. Cap. Lillington. Pop. (1890) 13,700.

Har'ney, in Maryland, a post-village, cap. of Harney co., 125 m. S.W. of Huntington. Pop. (1897) 400.

Harns, n. pl. [Lel. hiarn.]. A Scattleism for brains. Ha'ro, a town of Old Castile, Spain, 26 m. W.N. W. of Logrofic, on the right bank of the Ebro. Manuf. Linens, woollens, and earthenware. Pop. 6,540.

woollens, and earthenware. Pop. 6,540.

Har'old H., king of England, succeeded his father, Canute the Great, 1035, and n. 1039.

HAROLD II, son of Godwin, earl of Kent, usurped the throne, 1066, but was vanquished the same year by

William the Conqueror, and killed at the battle of

William the Conqueror, and killed at the battle of Hastings.

Har'old's Cross, a suburban village of Dublin, Ireland, abt. 1 m. 8. of Dublin Castle: pop. 2,789.

Har'oum-al-Raschidd, (or Aaron rus Just.) a renowned caliph of Bagdad, contemporary with Charlemagns and the empress Irene, was s. in Media, 765, and succeeded his elder brother as fifth caliph of the Abasside dynasty, in 788. He had already acquired immense popularity by his victories over the Greeks, and had made Irene a tributary of the caliphate. He now raised the empire of the Arabs to its highest pitch of grandeur, uniting the talents of a philosopher to those of a conqueror, and, like Charlemagne in the West, making his court the centre of arts and letters, and the refuge of men of learning from all parts of the Eastern empire. The Arabs never tire of their eulogisms upon the magnificence, generosity, and wisdom of this prince, as all the world has read in the Arabian Nights' Entertainments. His reign was the Augustan zera of the Arabian dominion, and his imaginative subjects have celebrated it as the age of enchantment and miracle. After the death of Irene. H. humbled her successor, the Emperor Nicephorus, still more deeply, made immense conquests among the Turks and other tribes of Asia, and subjugated the sect of All in his hereditary dominions. He b. in 809, leaving his wast possessions divided under his three sons, which prepared the way for endless jeal-ousies, and produced many civil commotions in afteryears. H. not only promoted learning and the arts in his dominions, but he was himself a poet, and was casily moved to tears by the recital of poetry. Yet he was often cruel, because, like a true child of the East, he often cruel, because, like a true child of the East, he often cruel, because, like a true child of the East, he his dominions, but he was himself a poet, and was easily moved to tears by the recital of poetry. Yet he was often cruel, because, like a true child of the East, he was impulsive, and severe because politic.

Har'pa, n. (2051.) A genus of moliuscs, of the Whilk family, so regularly marked with paral itel longitudinal ribs on the outer surface, as to suggest at the first glance the idea of

the stringed instrument to which it owes its name. The upper end of each rib is projected and pointed; spire short, last whorl large and deeply notched; outer lip thickened, and is supposed to



Fig. 1242. HARP-SHELL AND ANIMAL (Harpa ventricosa.)

have no operculum. The mollusc which inhabits it has
the head large; mouth open below; destitute of a probockis; but having two tentacula, with eyes in the middie; foot large. The principal localities of this genus
are the Red Sea, and the Indian and South American
oceans. There are several species, all handsome, and
some rare. One of the more abundant species, Harpa
centricosa (Fig. 1242), is as beautiful in form and coloring as any species of this marine carnivorous genus.

Harp, m. [A.S. hearpa; L. Ger. and D. harp; Ger.
harfe; Dan. and Fr. harpe; Swed. and Icel. harpa; It.
arpa, from L. Lat. harpa; probably allied to Gr. harpass, to selize or snatch away, and to Sansk. hupra to
best, to strike.] (Mus.) A stringed instrument, highly
esteemed by the ancients, which may be traced, under The molluse which inhabits it has have no operculum.

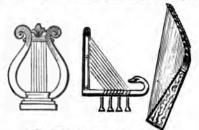


Fig. 1243. - ANCIENT HARPS OR LYRES various forms, to the remotest ages of antiquity. It was held in high veneration among the Celts, and its former prevalence in Ireland (Fig. 1243) has led to its



Fig. 1244. - AN IBISH HARPER IN THE HALL, (12TH CENT.) (Frda a manuscript in the Arundel collection.)

adoption as the national symbol. There is little doubt that it was brought to great perfection in Egypt, as its figure has been found drawn on buildings of the greatest antiquity; while at Thebes a freeco painting of

greatest antiquity; while at these arresco painting or a harp was discovered by Bruce, which he thinks was executed by order of Sesostria, who reigned between fourteen and fifteen hundred years before the Christian ærs. In Holy Writ we find the harp continually mentioned, while its invention is ascribed to Jubal, seventh only in descent from Adam. There are three kinds from Adam. There are tares known of harps now known,—the Italian harp, the Double or David's harp, and the Pedal harp. The first of these is very imperfect, and seldom or over used. The double harp is a better instrument, of a triangular a better instrument, of a triangular form, having gut strings and a sounding-board; but it was not until the invention of pedala, in 1720, by Hochbrucker, that this instrument became really useful. For its present improved and nearly perfect state we are indebted to M. Sebastian Erard, of Paris, who patented a harp with seven pedals in 1794, this being a single-action harp: the pedals only effecting one change on the string, he produced, in 1808, a double-action harp, the pedals of which have two actions. This instrument is tuned in the key of C flat, but may, by fixing the pedals in the first groove, be at once transposed to that of C natural, while, by fixing them in the



posed to that of C natural, while, by fixing them in the second, it is transposed into that of C sharp. The com-pass of this instrument is from E double below the base

pass of this instrument to B in altissimo.

to B in altissimo.

Harp, v. s. [A. S. hearpian.] To play on the harp.—
To dwell on tediously or vexatiously in speaking or vriting; as, to harp on a woman's perfections.

-v. a. To play upon, or strike sounds from, as a harp.

ty.

Harp, (Zoliam.) See Zolian Harp.

Harpax, n. (Onch.) A genus of fossil shells, oblong and somewhat triangular, the hinge being formed by

Har pax, n. (Omch.) A genus of fossil shells, oblong and somewhat triangular, the hinge being formed by two projecting teeth.

Harp'er, n. A player on the harp.
(Numis.) A coin formerly struck in the Irish mint, bearing on one side the effigy of a harp.

Har'per, James, Joen, Joen Wesley, and Flutcher, the founders of the eminent American publishing house of "Harper Brothers," were B. at Newtown, L. I., in 1795, 1797, 1801, and 1804, respectively,—the sons of a prosperous farmer. At the age of 16, the two elder brothers were apprenticed to the printing business in New York, and being joined in that city by the two younger brothers, they, before 1825, had established themselves as publishers on an extensive scale, under the style and title before mentioned. Their establishment has since become one of the leading publishing concerns in the U. States, and one of the most important in the world. In 1850 appeared the first number of Harpers' New Monkly Magaine, which in a few years achieved a circulation of from 175,000 to 190,000 copies. In 1857, the firm commenced the issue of Harpers' Weekly, an illustrated paper, after the manner of the "Illustrated London News." A great proportion of their business lies in the publication of original works, and reprints of European authors. James was Mayor of N.Y. in 1846, p. 1869. Josenh Wesley p. 1870, John and reprints of European authors. James was Mayor of N. Y. in 1846, D. 1869. Joseph Wesley, D. 1870, John D., 1875, and Fletcher D., 1877. The house is continued by the sons of the founders, in connection with others, under the original name.

by the sons of the founders, in connection with others, under the original name.

Harper, in Kussus, a S. co., drained by tributaries of the Arkaness and Nescatunga rivers. Area, 810 sq. m. Cop. Bioff City. Pop. (1886) 9.2-88.

Harper, in Ohio, a post-village of Logan co., about 6 miles N. by E. of Bellefontaine.

Harper's Ferry, in West Virgisia, a post-village of Jefferson co., situated at the junction of the Shenandeah and Potomac rivers, and remarkable for the picturesque hearty of its surrounding scenery. It is 160 m. N. of Richmond, and 53 N.W. of Washington. Pop. (1880) 958.

The U. S. Arsenal here was destroyed by the National troops, April 18, 1961, to prevent its falling into the hands of the Confederates, who occupied the village two days afterwards. On Oct. 16, 1889, H. P. was invaled and taken possession of by a band of 22 men under the leadership of John Brown, an old man of Ossawattomie, Kansas, who had been a daring and most resolute partisan leader of the Free State Party during the civil war in Kansas, in 1856-57. Their object was the emancipation of the aleves in the adjacent parts of Virginia and Maryland, and their plan seems to have been to seize and hold H. P. as a place of rendezvous for the negroes. The invaders were summoned to surrender on the 17th by a small military force, sent for the purpose from Jefferson. amail military force, sent for the purpose from Jefferson. Upon their refusal, a fight ensued, which resulted in 20 of the whites and 3 colored men being killed, 3 whites and 2 colored men taken prisoners, while 4 escaped, who were subsequently captured in Penusylvania, and delivered up to the Virginian authorities. After a trial before the circuit count of Lefferson co. for treason and murder. up to the virginian authorities. After a trial perforating correct of Jefferson co., for treason and murder, Brown was sentenced to be hung on Dec. 2, and his companions on the 16th. This enterprise was illegal and rash, but it spring from a generous impulse, and by many John Brown is considered a hero and martyr,

while the tragedy of H. F. may be considered as the pre-lude to the tremendous struggle by which the African race was raised from slavery to the citizenship of a fre-nation. In Aug., 1877, a monument was dedicated to the memory of John Brown, at Osawattomie, Kausas. Harper's Ferry, in loss, a post-village of Allama-

kee co. Har persileld, in New York, a post-town of Delaware co., about 60 m. W. by S. of Albany. Pop. (1890) 1,386. Harpersileld, in Okto, a post-village and township of Ashtabula co., on Grand river, about 45 miles E.N.E. of Cleveland.

of Cisveland.

Har'per's Station, in Ohio, a post-office of Ross co.

Har'per's Station, in Alabama, a post-village of Shelby co., about 80 miles N. by W. of Monigomery.

Harpersville, in New York, a post-village of Broome co., on the Susquehanna river, about 18 m. E. by N. of Binghamton. Generally spelled Harvasville.

Harpersville, in Texas, a P. O. of Stephens co.

Har peth, in Tennessee, a river rising in Williamson co., and flowing a general N.W. course, enters the Cumberland river between Davidson and Dickson cos.

Langth, about 100 miles.

A post-village of Williamson co., about 25 miles 8.8.E.

berland river between Davidson and Dickson cos.

Lengts, about 10th miles.

— A post-village of Williamson co., about 25 miles S.S.E. of Nashville.

Harp'ing-irom, n. Same as Harroon, q.v.

Harpong-irom, n. Same as Harroon, q.v.

Libert of the fore-and-aft cant-bodies till the ship is planked. They are made thicker than other parts of the wales, to encounter the great reastance offered by the water as the ship cuts through it.

Cut-harpings, minor ropes between the tops and mastheads, employed to draw the shrouds together and inwards towards the mast. They serve to tighten the shrouds, and to give freer play to the yards and sails when braced for on either tack.

Harpone'rates, n. A harper; a performer on the harp.

Harpone-well-sit, n. Same as Harpones, v. See Horus.

Harpone-well-sit, n. Same as Harpones, v. error, to gripe, to

monly supposed, silence), but the childish actions of infancy. — See Horus.

Harpomeer', n. Same as Harponer, q. v.

Harpomeer', n. [Fr. harpon, from harper, to gripe, to grapple, to seize; allied to Gr. harpozó, to snatch, to seize.] (Naut.) An iron spear or javelin, shaped like a barbed arrow at one end, with a ring at the other, through which a rope is run; used for the purpose of spearing whates in the Greenland and other whale-fisheries. The gun-harpoon, or harpoon-gus, is a weapon used for the same purpose, but which is discharged from a swivel or gun, instead of being thrown by hand. This weapon is formed entirely of metal, and has a chain attached to it, to which the usual line is joized on, as in the former case. The manner in which the H. is used, and whalee captured, will be given under the article Whale, q. v. (Called also harping-iron.)

—v. a. To strike, catch, or kill with a harpoon; as, to harpoon or, Harpooneer', Harponeer', n. One who uses an harpoon; the man in a whale-boat who throws the harpoon.

One who uses an harpoon; the man in a whale-boat who throws the harpoon.

Harpireas, n. A female harpist. (a.)

Harpichord, (harpin-kurd.) n. [Harp, and chord;
O. Fr. harpechord. (Mus.) A keyed musical instrument exactly resembling a grand pianoforte in shape, formerly much used, but now entirely superseded by the piano. The date of its invention is unknown, although it is supposed to have been about the 16th cent.; it was not have yet interesting the 17th product of the product of the 17th product of not, however, introduced into England until the 17th.
It consists of a mallogany or walnut-wood case, within which is the belly, or sounding-board, over which the



Fig. 1246. - HARPSICHORD.

strings are stretched, supported by bridges. The sound is produced by small pieces of crow-quill or hard leather, which project from the jacks, (small pieces of wood that stand upright between the strings.) and which, when the instrument is in use, are pushed upward by the keys till they touch the strings, causing a brilliant, but rather harsh sound. The great fault in the H. is its de-ficiency of any means of modification in respect to plano and forte notes.

Harps'well Centre, in Maine, a post-office of Cum-

co.

\*\*Har'py, n.; pl. Harpies. [Fr. harpie; Gr. harpini, the Snatchers, from harpare, to seize or snatch away by force.] (Myth.) One of a sort of fabulous winged monsters, ravenchus and filthy, having the face of a woman and the body of a vulture, with their feet and fingers armed with short claws.—Also a name given to

the Storm-winds, (Gladstone's Homer and the Homeric Age.) In Hesiod they are represented as the beautiful daughters of Thaumas and Electra: but in later mythology, they resume the repulsive form under which Vrgil has described them, (Æs. iii. 211, &c.). A ravenous, rapacious person or animal: specifically, an extortioner; a plunderer; as, that old harpy of a landlady.

(Zod.) A name given to some birds of prey of the sub-family Aquiting, but more usually applied in America to the Harpyin destructor (Cuv., or Thrussichus harpyia (Linn.), — an inhabitant of the great tropical forests, where it preys chiefly on quadrupeds, and to a sub-family Aquitivae, but more usually applied in America to the Harpyin destructor (Cuv., or Thrusoitical America to the Harpyin destructor (Cuv., or Thrusoitical Arryia (Linn.), — an inhabitant of the great tropical forests, where it preys chiefly on quadrupeds, and to a large extent on sloths and young deer. Of all birds, it has the most terrific beak and talons. It is larger than the common eagle: is short-winged and short-legad; the upper mandible greatly hooked; the feathers of the liead capable of being erected into a great ruff or crest. It has not so elegant a form as the tree eagles, but is probably equal to any of them in strength and courage. When adult, it is generally of a blackish slate color, with gray head, and white breast and belty.

Harpy'fa. a. [Lat., harpy.] (Zoid.) See Harpy.

A weak, watery.wicked old harridan. —De Quincey.

Harpy'fae, Harpy'fae, n. [From harr.] A small hound

A weak, watery, wicked old herriden."—De Qu

"A weak, watery, wheled old harridan."—De Quincey.

\*\*Han'rier, Han'ier, n. [From hare.] A small hound
trained for lumning the hare, remarkable for the acutaness of its sense of smell; as, a pack of harrier.

(Zoid.) A species of hound employed in hunting the
hare. This animal is supposed to be a cross between the
fox-hound and the besigle, and is remarkable for its anguelty in tracing, and the boldness with which it pursues its game. According to Blaine, in his "Rural



Pig. 1247. — HABRIER.

Sports," there are three prominent varieties of the har-rier, namely, the old southern bound (the Colon conclused of the French), (Fig. 1247), the modern harrier, and the of the French. (Fig. 1247), the modern harrier, and the beagle. Many subordinate divisions, however, accrue and a cross-breed is used for otter-hunting. The modern H. In appearance is little more than a dwarf fox-hound.—The name of some species of Hawks, genus Cracca, q. s. Harriette', in Mickigan, a just-village of Noble co. Harriettstown, in Ohio, a post-village of Noble co. Harriettstown, in Passessee, a post-town of Reane co., on H. & N. and Southern R. Ra.; had a rapid growth and reached a population estimated at 3,000 in 1897, but has latterly progressed commentively little.

and reached a population estimated at 3,500 in 1897, but has latterly progressed comparatively little.

Has rington, James, a celebrated political writer, born 1611, in Northamptonshire, Eug. His chief work is entitled Oceana, a political romance in which he defended republicanism. In 1661 he was, on a charge of treason, sent to the Tower of London, from whence he was removed to St. Nicholas's Island, near Plymouth, but was afterward released on bail. He died in 1677, after having been deranged for some years.

Harrington, a small scaport of Cumberland, Eug. on the Irish Sea, 5 miles N. of Whitelaven. It carries on an extensive trade with Ireland. Pop. 2,420.

Harrington, in Deloscore, a post-village of Kent co. about 16 miles S. of Dover.

about 16 miles S. of Dover.

Harrington, in Maise, a post-town of Washington co., about 120 miles E by N. of Augusta. Pop. (1897) about 1 900

about 1,230.

\*Harrington, in New Jersey, a post-town of Bergen co, on the Hudson river, about 7 miles N.N.E. of Hackensack. Pop. (1897) about 3,000.

\*Harrington, in North Corolina, a post-office of Harrington.

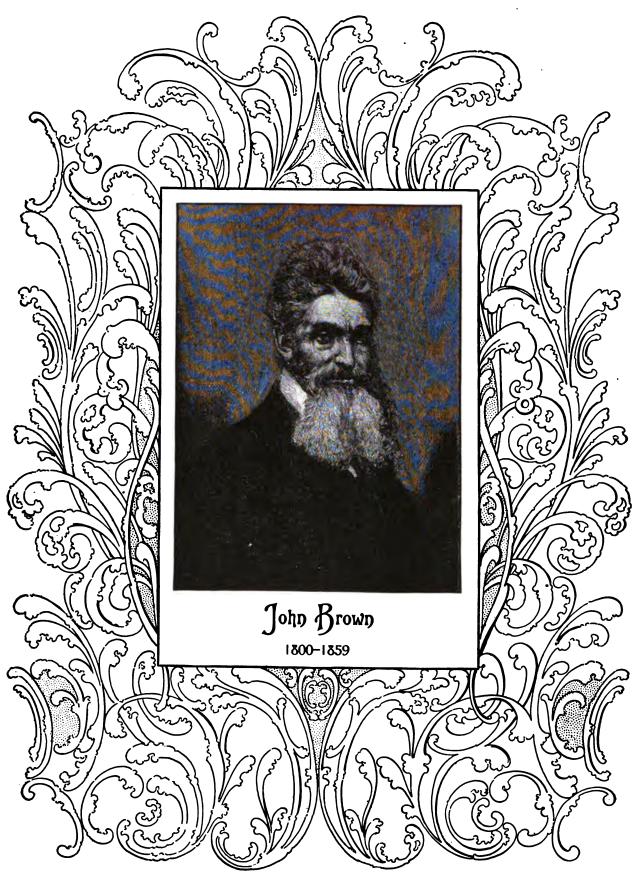
Harps'well, in Maine, a township of Cumberland Harrington, in Washington, a post-office of Lincoln

county.

Har'ring tonite, n. (Min.) A var. of MESOLITE (q.r.).

Har'rins, JAMS, an English philological writer, born 1709; is author of three treaties concerning Art, Munic, Puniting, Poetry, and Happiness, 8vo.; Hermes, or a Philosophical Inquiry concerning Universal Grammar, and several other philological works. Died 1700.

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Harris, an island of Scotland. See Hebrides, The.
Harris, in Georgia, a W. co., adjoining Alabama; area, about 423 sq. niles. Rivers. Chattahoochee river, Flat Shoal, Mountain, Mulberry, and Old House creeks. Surface, much diversified; soil, fertile. County-town, Itamitton. Pop. (1800) 16,797.

—A district of Morgan co.
Harris, in Illinois, a flourishing township of Fulton

Harris, in Indiana, a township of St. Joseph co.

Harris, in Ohio, a post-office of Gallia co.

—A township of Ottawa co.

Harris, in Pensaghousia, a township of Center co.

Harris, in Texas, a b. E. co., bordering on Galveston
Bay; area, about 1,800 sq. milea. Rivers. Buffalo bayou
and San Jacinto river. Surface, level; soil, very fertile.
(Up. Houston. Pop. (1890) 37,249.

Harris, in Virginia, a post-office of Louisa co.

Harrisburg, in Arkansas, a post-village, cap. of
Poinsett co.

Harrisburg, in Colorado, a post-office of Arapahoe

County.

Harrisburg, in Illinois, a post-town, cap. of Saline co., about 60 miles N.E. of Cairo. Pop. (1890), 1,723.

Harrisburg, in Indiana, a post-village of Fayette co., about 55 miles E. by S. of Indianapolis.

Harrisburg, in Iosea, a township of Van Buren co., about 70 miles S. by W. of Iowa City.

Harrisburg, in Kentecky, a post-village of Owen co.

Harrisburg, in Michigan, a post-office of Ottawa.

Harrisburg, in Mississippi, a village of Lee co. Harrisburg, in Missori, a post-town of Boone co., about 15 m N.W. of Columbia.

Harrisburg, in Nebraska, a post-village, the capital of Banner co.

Harrisburg, in New York, a post-town and township

of Hamer co.

Harrisburg, in New York, a post-town and township of Lewis co.

Harrisburg, in North Carolina, a post-village of Calarras co., about 13 m. N.E. of Charlotte.

Harrisburg, in Oho, a post-village of Franklin co., about 14 m. S.W. of Columbus.

—A village of Gallia co., about 10 m. N.W. of Gallipolis.

—A village of Stark co., about 11 m. N.E. of Canton.

Harrisburg, in Oregon, a post-village of Linn co., on the Willamette river, about 27 m. S. of Albany.

Harrisburg, in Pennsylvania, a city, capital of the State and of Dauphin co., situated in Lat. 40° 16° N. Lon. 70° 50° W., 108 m. W. by N. from Philadelphia, and 110 m. N. by E. from Washington, on the left bank of the Stagenelanna, here a mile wide, with an island in the middle, and crossed by several bridges. H. surrounded by magnificent scenery and fertile lands, is in itself a fine city, well built, and amply supplied with water. The Capitol, fluely situated on an eminence, was a handsome brick building, 180 feet long by 30 feet wide, with a circular lonic portice in front surmounted by a dome. This was nearly destroyed by fire early in 1897, but a new edifice is to be erected on the same site. The State Lunatic Hospital, opened in 1851, can accommodate 300 patients. Massy. and Ind. Iron works, rolling mills, cotton mills, car factories, breweries, &c. H. carries on a large trade in lumber. It is a railroad center, and the Pennsylvania canal passes through it. In 1753, John Harris, Jr., established there a ferry over the Susquehanna, whence the name of Harris' Ferry under which H. was long known. It was afterwards called Louisburg, in honor of Louis XVI, and received its present name in 1791, when it was incorporated as a lorough. The State government was transferred from Lancaster to H. in 1812. Pop. (1897) about 45,500. its present name in 1701, when it was incorporated as a lorough. The State government was transferred from Lancaster to H. in 1812. Pop. (1897) about 45,500.

Harrisburg, in Teras, a post-village of Harris co., on Buffalo Bayou, aloud 6 m. S.E. of Houston.

Harrisburg, in 1704, a post-village of Washington co., about 14 m. N. of St. George.

Harris City, in Georgia, a post-office of Meriwether county.

Elarris Creek, in Virginia, a post-village of Amherst county.

Harris Ferry, in Texas, a post-office of Red River

county.

Harris Grove, in Illinois, a post-village of Jefferson

Harris Grove, in Kentucky, a post-office of Calloway

county.

Harris Hill, in New York, a post-office of Eric co.

Harris Hill, in New York, a post-office of Eric co.

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Harris Hill, in New York, a post-office of Eric co.

COUTE.

Barrison, Benjamin, lawyer, soldier and statesman, 23rd President of the United States, was born at North Bend, Ohio, Aug. 26, 1833; grandson of William Henry H., and great-grandson of Benj. H. (1740-1791), who was governor of Virginia (1782-85) and one of the signers of the Declaration of Independence. He was graduated from Miami University (1862), studied law at Cincinnati, and removed (1854) to Indianapolis, where he built up a large and lucrative practice; entered the Federal volunteed army (1862) as a licutemant; soon became colonel of the 17th Indiana infantry, and for gallantry at the battle of Peachtree creek, in the Georgia campaign, was made brevet brigadier-general. son became colonel of the 17th muman manny, and for gallantry at the battle of Peachtree creek, in the Georgia campaign, was made brevet brigadier-general. U.S.V.; remained with Sherman until the surrender of Johnston, and was mustered out of the service with the rank last named. In 1876 H. was Republican candidate for givernor of Indiana, but was defeated; five years later (1881) he was elected U.S. Senator for the full term of six years. In 1888 he was elected President of the properties of the surrender of t

the U. S., receiving 233 votes in the electoral college to 188 for Grover Cleveland; his administration was notable for an era of great prosperity and a substantial reduction of the national debt; but, being renominated for the presidency in 1892, he was deleated by Mr. Cleveland, who received 277 votes in the electoral college against 145 for H. and 22 for James B. Weaver, Populist. In March, 1893, H. resumed his law practic in Indianapolis. He was subsequently appointed special lecturer on law in the Leland Stanford University, California, and has contributed notable articles on mational topics to leading periodicals.

Harrison, in Missouri, a N.W. co., adjoining Iowa. Area, about 730 sq. m. Risers. Crooked Fork, and Big creek, affilients of Grand river, besides numerous streams. Surface, undulating; soil, fertile. Cap. Beth-marrison, the inventor of the time-keeper for ascertaining the longitude at sea, was born at Foulby, Yorkshire, England, in 1693. His father, a carpenter or builder, brought him up to the same occupation; but he death of this own ingenuity and perseverance he

lecturer on law in the Leland Stanford University, California, and has contributed notable articles on national topics to leading periodicals.

Hay'rison, John, the inventor of the time-keeper for ascertaining the longitude at sea, was born at Foulby, Yorkshire, England, in 1683. His father, a carpenter or builder, brought him up to the same occupation; but by dint of his own ingenuity and perseverance he learned to make clocks and watches; and having turned his attention to the improvement of pocket watches, he was induced to make a time-keeper in that form, which he finished in 1759. This chronometer, in two voyages, having been found to correct the longitude within the limits required by the act of parliament, H. applied for having been found to correct the longitude within the limits required by the act of parliament, H. applied for the proposed reward of \$100,000, which he received. H. was also the inventor of the compensation pendulum, named, from the manner of its construction, the gridien pendulum, and of the going Insec, by means of which a watch goes while being wound up. Died in 1776.

Harrison, William Henry, 9th President of the U.S., born in Berkeley, Charles City co., Virginia, 1773, was the son of one of the most conspicuous among the patriots of the revolution.

After receiving the custom-

After receiving the custom-After receiving the custom-ary education at Hampden-Sidney College, he studied for the medical profession; but participating in the general excitement which prevailed throughout the throughout the country against the barbarous mode of warfare at that time practised by the Indians on the north-western frontiers,



the north-western frontiers, he suddenly abandoned the study of Galen, and joined his brethren in arms as an ensign in the U.S. artillery, in 1791. Ten years later he was made Governor of Indi-Fig. 1248.—W. H. HARRIMON. ans, and held that post for more than 10 years. In 1811, in the hard-fought battle of Tippecanoe, he defeated the Indians under the command of the famous Tecumseh. After tieueral battle of Tippecance, he defeated the Indians under the command of the famous Tecumseh. After General Hull's surrender in 1812. H. was appointed to the command of the army on the northwestern frontier, with the rank of brigadier-general; he was made major-general in March, 1813. In 1822 he took his seat in the Senate of the U. S., and soon after was chosen chairman of the Military Committee. He was nominated, in 1836, candidate for the presidency, by the party opposed to Mr. Van Buren, and although defeated in the election of that year, became again the nomines of the Whig party in 1840; and in the subsequent election was chosen President by an overwhelming majority, John Tyler, of Virginia, being associated with him as Vice-President. H. was inaugurated President March 4, 1841, and from the judicious composition of his cabinet, great expectations were formed of his administration; but within a month he died, after a short illness of 8 days.

Harrison, in Arkanens, a post-village, cap. of Boone

Tarrison, in *Illisois*, a post-village and township of Winnebago co.

Winterson, in Indiana, a S. co., adjoining Kentucky; erea, about 470 sq. miles. Ricers. Ohio and Blue rivers. Indian creek, and some smaller streams. Surface, broken Indian creek, and some smaller stream. Surface, broken and diversified, some of the river hills and knobs rising to a height of 500 feet; soil, fertile. Mis. The county is based principally upon cavernous limestone, and Pitman's Cave, in the W. part, is said to extend more than two miles underground, having spartments of great dimensions. There is also a remarkable spring in this vicinity, 60 feet in diameter and several hundred feet deep, furnishing water power sufficient for a large mill. (ap. Corydon. Pop. (1890) 20,786.

A township of Blackford co.

A township of Blackford co.

A post-township of Delaware co.

A village and township of Vigo co.

—A post-township of Delaware co.

—A village and township of Vigo co.

Harrison, in Iouca, a W. co., adjoining Nebraska; area, about 605 sq. ni. Ricers. Missouri, Royer, and Soldier. Surface, generally level; soil, fertile. Cap. Logan. Pop. (1895) 23,091.

—A township of Adalr co.

—A township of Benton co.

—A township of Harrison co.

—A township of Lee co.

—A township of Lee co.

—A village of Louisa co., on the Iowa river, about 2 miles N.E. of Wapello.

—A township of Mahaska co.

—A township of Mahaska co.

—A township of Mahaska co., on the Iowa river, about 2 miles N.E. of Wapello.

—A township of Mahaska co.

\*\*Harrison, in Kewicky, a N.E. central co.; area, about 357 sq. miles. Rivers. Licking river and some smaller streams. Surface. undulating; soil, generally very fertile. Cap. Cynthiana. Pop. (1890) 16,914.

—A village of Pulaski co., about 15 m. N.W. of Somerset. Harrison, in Maine, a post-township of Cumberland

Harrison, in New York, a pat-town of West Chester

Harrison, in New York, a partown of west Chester co. Pop. (1980) 1.486.

Harrison, in Ohio, an E. co. Area, about 400 sq. m., Risera. Conotton and Stillwater creeks. Surface, diversified; soil, very tertile; wool-growing is a leading industry. Miss. Bituminous coal in abundance. Cop., Cadis. Pop. (1890) 20,830.

Cadiz. Pop. (1890) 20,830.

—A post-village and township of Hamilton co., on the W., border of the State, about 20 m. W.N.W. of Cincinnati.

—A township of Champaign co.

—A township of Van West co.

—A township of Pennsylennia, a township of Bedford co.

—A township of Putter co.

Harrison, in Temessee, a post-village of Hamilton co., on the Tennessee river, about 140 miles S.E. of Nash-ville.

ville.

Harrison, in Texas, a N.E. co., adjoining Louisiana.
Area, about 880 sq. miles. Rivers. Sabine river, and Big
and Little Cypress bayons. Caddo lake washes its K.
border. Surface, diversified; soil, fertile. Cup. Marshall. Pop. (1890) 25,721.

Harrison, in Wiccossis, a township of Calumet co.

—A township of Grant co.

Harrison, in West Virginia, a N. central co.; area,
about 464 sq. miles. Bisers. West Fork of the Monongahela river, and some smaller streams. Surface, hilly;
soil, fertile. Mis. Coal and iron. Cap. Clarksburg. Pop.
(1891) 21,919.

Harrison Bay, in Maska, an arm of the Arctic

(1890) 21,919.

Harrison Bay, in Alaska, an arm of the Arctic Ocean, about Lat. 70° 30° N., Lon. 151° 3° W.

Har'risonburg, in Louisiana, a post-village, cap. of Catahonia parish, on the Washita river, about 167 miles N.N.W. of Baton Bouge, in Virginia, a fine city, cap of Rockingham co., on B. & O. R. R., 68 miles S.S.W. of Winchester. Pop. (1897) about 2,900.

Harrison City, in Prompicaria, a post-village of Wesmoreland co., about 24 m. E. by S. of Pittshurg.

Harrison Creek, in North Carolina, a post-office of Pender co.

Harrison June'tion, in Ohio, a village of Hamil-

ton co.

Harrison Mills, in Ohio, a post-office of Scioto co.

Harrison's Landing, in Virginia, a locality of Chules City co, ou the James river, about 5 m. below City Point, to which the Union army retreated after the

Seven Days' Battle.

Harrison Square, in Massachusetts, a former postvillage of Norfolk.co.; now the 24th ward of the city Harrison Val'ley, in Pennsylvania, a post-village of

Har'risonville, in Arkawas, a post-office of Jackson

Har'risonville, in Arkansa, a post-office of Jackson county,
Harrisonville, in Illinois, a village of Macon co.

—A post-village of Monroe co., on the Mississippi river,
about 28 miles below 8t. Louis, Missouri.

Harrisonville, or Trim'ity Springs, in Indiana, a village of Martin co., about 4 miles N.E. of
Dover Hill. Its P. O. is Trinity.

Harrison ville, in Kessecky, a post-village of Shelby
co., about 46 m. E.S.E. of Louisville. Formerly called
CONNESSVILLE.

Harrisonville, in Missouri, a post-town, cap. of Cass
co., about 115 miles W. of Jefferson City.

Harrisonville, or Coles'town, in New Jersey, a
past-village of Gloucester co., about 22 miles S.S.W. of
Camden.

Harrisonville, in Ohio, a post-office of Meigs co.

Camden.

Harrison ville, in Ohio, a post-office of Meigs co.

—A village of Scioto co., about 15 m. N.E. of Portsmouth,

Harrison ville, in Promphrania, a village of Centre
co., about 4 miles S.E. of Bellefonte.

—A post-village of Fulton co., about 27 miles W. of

Chambersburg

Har'ristown, in Illinois, a post-township of Macon county

county.

Harristown, in Indiana, a post-village of Washington co., about 4 miles E. of Salem.

Harriswille, in Indiana, a post-village of Randolph co., about 4 miles W. of Union City.

Harriswille, in Michigan, a post-village, cap. of Alcona co., on Lake Huron, 90 m. N.N.E. of Bay City.

—A township of Alcona co. **Harrinville**, in *Mississippi*, a post-village of Simpson

Har'risville in Ohio, a township of Medina cou

Har'risville, in Pransylvania, a post-village of But-

ty.

Har'risville, in Pranspleania, a post-village of Butler co., abt. 24 m. N.W. of Butler,

Har'risville, in Rhode Island, a village of Providence co., abt. 15 m. N.W. of Providence.

Har'risville, in Wiscottin, a post-village of Marquette co., abt. 8 m. N.W. of Montello.

Har'risville, in Wiscottin, a post-village, cap. of Ritchie co., abt. 8 m. N.W. of Montello.

Har'risville, in W. Virginia, a post-village, cap. of Ritchie co., abt. 37 m. E. of Parkersburg.

Har'rodsburg, in Islanda, a post-village of Monroe co., abt. 12 m. S. of Bloomington.

Har'rodsburg, in Kentucky, a post-town, cap. of Mercer co., abt. 30 m. S. of Frankfort. It is notable as the oldest town in the State, the first dwelling having been built by Capt. James Harrod, in 1774. It is beautifully situated on an eminence, a short distance from Sait River, and contains, beaides Bacon College and a military academy, numerous fine public and private edifices. The mineral springs in the vicinity have gained much celebrity. Pop. (1897) about 3,320.

Har'rod's Creek, in Kestscky, a post-village of Jefferson co., on L. & N. R. R.

Har'rogate, Harroware, or High Harrogate, a town and fashionable resort of Yorkshire, England, 20 milee S. W. of York, celebrated for its sulphurous and chalybeate springs.

mines. W. 101a, celevised in its sulprisons and chalyleate springs.

EMPTOW, (har'rō,) n. [Dan. haro; Swed. harf, a harrow; Ger. hacke, a rake: allied to A. S. heryian, to lay waste, to harass.] (Apric.) An implement formed of bars of wood or iron, fastened together transversely, either at right angles to each other, or diagonally, with iron teeth projecting downwards from the points of intersection perpendicularly, or with a slight inclination, A H, with the bars set diagonally is the best, as their inclination to each other may be regulated in such a A H, with the bars set diagonally is the best, as their inclination to each other may be regulated in such a manner that each tooth marks out a separate furrow; in consequence of which the implement persons its work more effectually than it would if the bars were disposed, as in the old H, at right angles to each other. There is also an expanding harrow, in which the framework of bars is fastened together by loose pins, so that the tests can be set closer together or farther apart, as the state of the soil may require. The H is used in bringing land that has just been plonghed into a proper condition for the reception of the seed, by breaking the clods of earth into smaller fragments, tearing out the roots of the weeds or stubble, and pulverizing and mixing the soil. To effect this, and to render the surface tolerably smooth and even, the land is rolled and harrowed two or three times with different H, a strong, heavy H, being used to break the furrows made by the plough, and lighter harrows, with the teeth set more closely together, in the final stages of the process.

Has rew, v. a. [Swed. harrow, a field.

Has rew, v. a. [Swed. harrow, a field.

seed sown; as, to harrow a field.
"Let the Volscians plough Rome and harrow Italy."

-To torment; to tear; to lacerate; to worry; to harase; as, a harrowing tale.

"It harrows me with fear and wonder."—Shaks.

Har'row, interj. [O. Fr. haran.] Help! ho there! halloo!

Harrow, interj. [O. Fr. haran.] Help! ho there! halloo!

"Harrow now, out and well-way."—Spenser.

Harrow now of England, co. Middlesex, on the highest hill in the county, hence often called Harrow now.he.Hill, 10 m. W. of London. There is a celebrated public school here where Lord Byron and other celebrated men were educated. Php. 6,100.

Harrower. n. A person who uses a harrow.—A kind of hawk; a harrier.

Harrowing, n. (Agric.) The process of drawing a harrow over the soil for the purpose of reducing it to a level, of covering seed, or of turning up weeds in ploughed ground, or moss in grass-lands. In agriculture the harrow is driven by horses; and in market-gardening, where a light harrow is sometimes used, by men. In either case, the more rapid the motion of the harrow, up to a certain point, the more efficient will be its operation. For meadow-lands, the object of H. is to disperse the little heaps of earth raised during winter and early spring by moles and worms. For this purpose and early spring by moles and worms. For this purpose the harrows are symctimes turned upside-down; while, at other times, thorn branches are tucked into a frame resembling a harrow, and dragged over the surface for the purpose of effecting the same object. This is called buch-harrowing. A chain-harrow is also used for the same purpose.

same purpose.

\*\*Han'ry, v. a. [A. 8. hergian; 8 wed. hærja, hürja.] To strip; to pillage; to ravage; to plunder; to lay waste as, to harry an enemy's country.—To harasa; to agitate; to tease; to worry.

"I repent new much that I so harried him."—Shake.

Harrysoph, (harrisoff, n. [L. Gr. Crisopha.] A term used at Cambridge University, England, to denote a student who, while competent to take the degree of B. A., announces himself a candidate for a degree in law

B. A., same and the second of or medicine.

Marsh, a. [Ger. harsch; Swed. harsk; allied to Goth. hardus, hard.] Sour; tart; bitter; austere to the taste.

"Berries harsh and crude." (Milton.)—Rugged; rough to the touch; having aspertities or inequalities of surface; as, "harsh sand." (Boyle.)—Ruugh to the ear; discordant; jarring; grating; as, a harsh voice.

"Through the harsh cadence of a rugged line."-Dryden. Austere in manner or disposition; crabbed; more

—Austre in manuer of appearing the power in the power in

Harsh'ly, eds. In a harsh manner; roughly; austrely; sourly; with a grating sound; unpleasantly; rudely; as, to speak karskly.

Harsh'mann, in Ohio, a post-village of Montgomery co., on C., C., C. & St. L. R. R.

Harsh'mess, n. Quality of being harsh; roughness to the touch, taste, or ear; rudeness; severity; peevishness; as, the karskness of guttural sounds, karskness of treatment.

ness; as, the horshaces of guttural sounds, harshaces of treatment.

Hars'Set, s. Same as Hasler (g. v.).

Hars'set, s. Same as Hasler (g. v.).

Hars'se Island, an island of Outarlo, in Lake St.

Clair, Lat. 42° 35' N., Lon. 82° 25' Ward.

Hart, s. [A. S. heori; L. Ger. and D. heri; Dan. hiori; Swed. hjori; Ger. hirsk.; O. Gr. hirss. The Ger. seems to be allied to hisrick; o. Gr. hirss. The Ger. seems to be allied to hisrick; o. Gr. hirss. The Ger. seems to be allied to hisrick; o. Gr. hirss. The Ger. seems to be allied to hisrick; o. Index, which has completed the fifth year;—opposed to hind, the female of the same species.

Hart, in Georgia, a N. E. co., adjoining South Carolina; area, about 381 aq. in. Ricers. Savannah river, and numerous smaller streams. Surface, hilly; soil, fertile. Cop. Hartwell. Pop. (1890) 10,887.

Hart, in Kenkacky, a W. central co.; area, about 410 sq. m. Ricers. Greene river, Nolin and Bacon creeks. Surface, diversified; soil, generally fertile. Cop. Munfordville. Php. (1894) 10,439.

Hart'beest, s. [D. hert, and beest, beast. See Hart.] (Zoil.) The Antelope crama, a species of antelope inhabiting the plains of S. Africa.

Hart'fell. a mountain of Scotland, bet. Tweedsmuir and Moffer, in Innytrinshite Mare, as the formurant Moffer, in Innytrinshite Mare, and the formurant Moffer.

habiting the plains of S. Africa.

Hart'fell, a mountain of Scotland, bet. Tweedamuir and Mofat, in Dumfriesshire. Here are the famous chalyleate springs of Mofat. Height, 2,635 feet.

Hart'Geld, in New York, a post-village of Chantanqua co, about 1 m. N. of Chantanqua Lake.

Hart'ford, in Connecticut, a N. central co.; area, 738 sq. m. Rivers. It is intersected by the Connecticut river and watered by the Farmington, Stony, Sciantic, and numerous annalier rivers and creeks. Surface, uneven and in some blaces mountainous: soil sements. and numerous smaller rivers and creeks. Surface, uneven and in some places mountainous; soil, generally
fertile, and rich in the valleys. Products. Tobacco as a
specialty, farm and dairy produce generally; some cats
and rye, but little wheat; live stock, mostly cattle.
There is good water-power and much manufacturing.
County-seat, Hartford, which is also the State capital.
Pop. (1890) 147,180.

County-sea, narrors, which is also the State capital.

A thriving city, capital of above co., and the sole capital of the State since 1875; on the Connecticut river, at the head of steamhoat and sloop navigation, 50 m. from its mouth and about 40 m. N. E. of New Haven; Lat. 41° 40′ 59″ N., Lon. 72° 40′ 45″ W. H. was known to the aborigines as Suckiaug; was first settled in 1634 by emigrants from Massachusetts and called Newtown, the present name being given in 1637, from Hertford, in England. The Dutch had built a fort here as early as 1633, but by 1654 the settlement and its surroundings passed wholly into English hands. The first town meeting of H. was held in 1635; the first place of worship was built, and the first school established, in 1638. One year later (1639) the constitution of the colony of Connecticut was framed at H., being the first colonial constitution formulated in America, and embodying all the characteristic features of those subsequently adopted by the other colonies. The first code of laws was prepared in 1650, one of the features of which was the reduction of capital offenses to 15, instead of 160 as under by the other colonies. The first code of laws was prepared in 1650, one of the features of which was the reduction of capital offense to 15, instead of 160 as under English law. Here was located the famous "Charter Oak," which survived until 1856. H. is an important manufacturing center, the industries covering a very wide range and including fire-arms, bicycles, silverplated ware, silks, woollens, carriages, railroad equipments, all sorts of hardware specialties, &c. It is prominent for its insurance corporations, fire, marine, and life, of which there are at least a score, representing a capitalization exc. ding \$100,000,000. The public buildings include the handsome State-House, completed in 1878, Post-office (1883), County Court-house (1884), Board of Trade Building (1891), the new Trinity Odlege, Deat and Dumb Asylum, and a union railway station, besides many fine edifices occupied by the great insurance companies and other corporations. There station, besides many fine edifices occupied by the great insurance companies and other corporations. There are nearly 20 m. of street railway. Pop. (1870) 37,186; (1880) 42,533; (1890) 53,230; (1897) about 59,400.

Hart'ford, in Indiana, a township of Adams co.

—A village of Cherokee co.

Hart'ford, in Indiana, a township of Adams co.

—A village of Crawford co.

—A village of Crawford co.

—A village of Ohic co., about 11 m. S. of Terre Haute.

Hart'ford, in Iona, a township of Iowa co.

—A post-vill of Warren co., abt. 15 m. S.E. of Des Moines.

Hart'ford, in Kassaa, a post-village of Lyon co., about 13 m. S. E. of Empuria.

Hart'ford, in Kentucky, a post-village, cap. of Ohic co., on Rough creek, abt. 100 m. S. W. of the city of Frankfort. Pop. (1880) 740.

on Rough creek, abt. 160 m. 8. W. of the city of Frankfort. Pop. (1880) 740.

Hart'ford, in Maise, a post-town of Oxford co., 30 m. W. of Augusta. Pop. (1897) about 700.

Hart'ford, in Michigas, a post-village and township of Van Buren co. Pop. of village (1894) 1,005.

Hart'ford, in Mississippi, a village of Todd co.

Hart'ford, in Mississippi, a village of Calhoun co.

Hart'ford, in Mississippi, a village of Putnam co., about 100 m. N. of Booneville.

Hart'ford, in New Lerses a post-village of Buylington

Hart'ford, in New Jersey, a post-village of Burlington

county.

Hart'ford, in New York, a post-town and township of
Washington co., about 55 m. N. N. E. of Albany. Pop. (1890) 1,470.

Hart'ford, in Ohio, a village of Allen co., about 11 m.

-A village and township of Licking co., about 25 m. N.E. of Columbus.
-A post-township of Trumbull co.

-A post-township of Trumbull co. Hart'ford, in Pennsylvania, a borough of Tioga ca. Hart'ford, in Vermon', a post-township of Windsor co. Pop. (1890) 3,740. Hart'ford, in Wisconsis, a city and township of Washington co., about 35 m. N. W. of the city of Milwankes. Pop. (1895) 1,807. Hart'ford City, in Indiana, a post-township, cap. of Blackford co., on 2 railrund lines, 47 m. S. by W. of Ft. Wayne. Has glass and other important manuf. Pop. (1897) about 4,000. Hart'ford City. in W. Virginia a post-village of

Hartford City, in W. Virginia, a post-village of Mason co.

Mason co.

Hart ford Convention. (Amer. Hist.) The mame applied to a meeting of delegates from the New-England States, assembled at Hartford, Conn., Dec. 15, 1814. Their object was to protest against the war waged against Great Britain, which caused immense losses to the people of New England by the destruction of their commerce and their fisheries. The convention ant 20 days, with closed duors, and proposed amendments to the Constitution of the U. States, — among which were, the basing representation on free population; making the President ineligible for a secund term; disqualifying persons of foreign birth to hold office; limiting embaragoes to 60 days; requiring a two-thirds vote in Congress persons of foreign birth to hold office; limiting emisargoes to 60 days; requiring a two-thirds vote in Congress
to admit new States, to interdict commercial intercourse,
to declare war, or to authorize hostilities except in cases
of invasion. Though guiltless of any designs which
could justly be considered treasonable, the Federal party
never recovered from the odium of its opposition to the
govt., and almost every man implicated in the doings of
the H.C. was afterwards excluded from political power.
Han'thegig, in Prassylvania, a post-office in the N.
purt of Mercer co.; so named on account of an Indian
of that name, the last of his tribe, having his wigwam
in the neighborhood.

in the neighborhood.

in the neignborhood.

Har'tin, n. (Min.) A white, tasteless resin, extracted from the brown-coal of Oberhart; sp. gr. 1-115. Chang. Carbon 78-51, hydrogen 9-05, oxygen 12-44.

Har'tite, n. (Min.) A white, tasteless resin, from a species of fossil pine found in the brown-coal beds of Oberhart, near Vienna. It occurs in clefts in the coal, and in the times of the model of the production of and in the tissues of the wood. Comp. Carbon 87-8, by-

and in the usues of the wood. Comp. Carron Si'S, sydrogen 12:2.

Hart'land Point, in England, a lefty premontory at the S. entrance of the Bristol Channel; Lat. 51° 1′ N., Lon. 4° 31′ W.

Hart'land.in Connectical, a post-township of Hartford

Inri Tand. in Connecticut, a post-township of Hartford co., about 20 m. N.W. of Hartford.

Hartland, in *Phanis*, a vill, and twp. of McHenry co., abt. 55 m. N.W. of Chicago.

Hartland, in *Iosa*, a post-township of Worth coun-

ty.

Hart'land, in Maine, a post-village and township of Somerset county, about 42 miles N.E. by N. of Au-

gusta.

Hart'land, in Michigan, a post-village and township
of Livingston county, about 45 miles east of Lan-

sing. Hart'land, in Minnesota, a post-township of Freeborn

county.

Hart'land, in New York, a post-town and township of Niagara co. Pop. (1897) about 3,000.

Hart'land, in Ohio, a post-township of Huron co.

Hart'land, in Vermond, a post-town and township of Window co. Pop. (1897) 1,410.

Hart'land, in Wisconsia, a township of Pierce co.

—A township of Shawano co.

—A pet-village of Wankesha co., about 24 m. W. by N. of Milwakee. Pop. (1885) 657.

Hart'land Four Corners, in Vermont, a post-

of milwankee. Pop. (1880) 637.

Hart'lamd Four Corners, in Vermost, a postvillage of Windsor co.

Har'tlepool, a scanport town of England, co. Durham,
near the mouth of the Tees, 17 m. S. E. of Durham. H.
has very extensive docks, and a large trade in coal.
Pop. (1887) about 23,500.

Har'tletom, or Hart'LETTON, in Pennsylvavia, a postborough of Union co., about 70 m. N. by W. of Hartisburg.

Hart'ley, David, an English philosopher, born in
Armley, Yorkshire, author of Observations on Man, his
Fime, his Duty, and his Expectations, a work which was
the first attempt to explain psychological phenomens
on physiological principles. Died in 1757.

Hart'ley, a scaport town of England, co. Northumberland, on the N. Sea, 4 m. W. of N. Shields. Mansf. Colliery, glass and bottle works. Its harbor accommodates
vessels from 200 to 300 tons.

Hart'ley, in Pennsylvania, a township of Union co.

vessels from 200 to 300 tons.

Hart'ley, in Penseylvasia, a township of Union co.

Hart'ley, in Chica, a post-village of Athens co.

Hart'lot, in New York, a post-village of Onondaga co.

Hart'not, in New York, a post-village of Onondaga co.

Hart'mannite, in (Mis.) (Called also Breithamptis.)

A beautiful copper-red mineral, composed of antimony

67-4, and nickel 326. It has been observed as a furnace
product, and is found at Andreasburg in the Harts

Mountains. Sp. gr., 9-541.

Harts'burg, in Indiana, a post-village of Logan co.

Hart's-clover, s. (Bot.) The melliot. See Mexi
Lovus.

Hart's Grove, in Ohio, a post-village of Ashtabula co. Haris horn, n. The horn of the hart, or male deer.

H., Salts of. (Chem.) Smelling-salts; carbonate of ammonia. This produced in an impure state on the distillation of hartshorn, or any kind of born or bone.

H., Spirit of. (Chem.) The name formerly applied H., Spirit of. (Chem.) The name formerly applied to AMMONIA (q, v), because it was obtained by the distillation of hartshorn.

Harts hern, in N. Oroling, a P. O. of Alamance co.
Digitized by

Hart's'-temgme, n. (Bot.) See SCOLOPENDRIVM.

Harts'tewm, in Presspicania, a post-borough of Crawford co., 15 m. W.S.W. of Mandville.

Harts'ville, in Indiana, a post-town of Bartholomew co., about 50 m. S.E. of Indianapolia. Pop. (1890) 474.

Hartsville, in Massachusetta, a post-village of Barkshire co, about 125 m. W. by S. of Buston.

Hartsville, in New York, a village of Onondaga co.

—A township of Steuben co.

Hartsville, in North Carolina, a P. O. of Wake co.

Hartsville, in Penneyleunia, a post-village of Bucks co., about 108 m. E. of Harrisburg.

Hartsville, in South Osrolina, a post-village of Darlington co.

lington co. **Hartsville,** or **Hartsville Junction,** in *T* Hartaville, or Hartaville Junction, in Tensesce, a village of Sunner co. 45 m. E. N.E. of Nashville. On Dec. 7th, 1862, a force of 2,000 National troops was surprised at this place by the Confederate Gen. Morgan, and were taken prisoners to Murfreeslore.

Hart Village, in New York, a village of Dutchess co., about 16 m. E. N.E. of Poughkeepsie.

Hart Ville, in Missouri, a post-village, cap. of Wright co., about 105 m. S. by W. of Jefferson City.

Hart Well, in Georgia, a post-village, cap. of Hart co., about 50 m. N.E. of Athens.

Hart'wellville, in Michigan, a post-village of Shia-

Hart'wellville, in Vermont, a post-village of Ben-

Mast'wellville, in Vermont, a post-village of Bennington co.

Hast'wielk, in New Fork, a post-town and township of Otsego co., on the Susquehanna river, 35 m. S. by E. of Utica. Pop. (1897) about 1,920.

Hastwick Seminary, in New Fork, a post-village of Otsego co., about 6 m. below Cooperstown.

Hasts, (Thee.) Ger. Hars, or Harsgebirge.] The most N.W. range of mountains in Germany, between Lat. 51° 35' and 51° 51' N., and Lon. 10° 10' and 11° 30' E., separating the waters of the Weser from those of the Elbe. The Harts Mountains run in a wavy and irregular course from Mansfeld in the E. and after traversing portions of Anhalt-Bernburg, Stolburg, Hohenstein, &c., terminate on the W. at the town of Seesen, forming in their course an extreme length of 70 miles, and an average breadth of 28 miles; but comprising an extent of 1,350 aq. miles, and embracing in its sinuous line as many as forty towns of consideration, with numerous villages, and including a population of 65,000. This valuable, romantic, and most important range of Alpine scenery is divided nearly midway into two portions by a culmination, which, though not the lottiest in Germany, is the highest peak in this, its northern mountain-chain. This elevation, which divides the Hartz into east and west, or upper and lower Hartz, is called the Brocken, and rises to the altitude of 3,740 feet above the level of the elevation, which divides the Hartz into east and west, or upper and lower Hartz, is called the Brocken, and rises to the alititude of 3,740 feet above the level of the sea; other parts reaching to 2,755 and 2,435 are here and there thrown up along its line, but the Brocken, in height and reputation, is the chief and highest top of the Hartz Mountains. The climate of the upper Hartz, or western part, is cold, and is the most elevated, extensive, and rich in minerals, all the rivers rising in this division emptying themselves into the Weser. The frost continues till the end of April, and resppears in October; and the warm weather only lasts 3 months. The Hartz are wooded everywhere, even to the summit continues till the end of April, and resppears in October; and the warm weather only lasts 3 months. The Hartz are wooded everywhere, even to the summit of the Brocken, though, by the elevation, the giant first of the low altitudes are here reduced into gnaried and stunted dwarfa. The hills of the upper division abound in berries, truffes, and mushrooms, in medicinal plaets and roots, and what is known as Iceland moss; and immense herds of cattle, goats, and horses graze upon its herbage. Oats are the only grain raised in any quantity. The lower or eastern Hartz is in every way superior in beauty of scenery and richness of soi; the woods abound in game and wild animals, from the roebuck and deer to the mountain-cat and ptarmigan. The climate is correspondingly milder, and the products of the boil more varied and abundant. The great wealth of the Hartz lies in its mineral productions. Gold was formerly procured in considerable quantities, and sliver is still extracted, to some extent, from pure and compound ore. Iron, lead, sinc, copper, ansenic, and manganese are, however, its principal products, and these, with granite, porphyry, slate, marble, alsabaster, and several earths, constitute the great and important wealth of the Hartz Mountains. But rich and commercially valuable as these seventy miles of wooded rock and mountain may be to the merchant and political economist, the Hartz mounting to awe, a deathless tradition and romance, connected with the Hartz, that, when the bowels of its mountains have been rified of their mineral wealth, will endure as long as a tree grows, or a blade of grass waves on its heatty top. The Hartz, and especially the Brocken, mountains have been rined of their mineral wealth, will endure as long as a tree grows, or a blade of grass waves on its heathy top. The Hartz, and especially the Brocken, is united with the most cherished legends, superstitions, and histories of the German people; the vast caves and grottoes, the romantic Selkenthal, the Maiden's Leap, the Bath of Alexis, the wild Ockenthal, the horse-track of the Wild Huntzman its neckned and alcome price. the Bath of Alexis, the wild Ockenthal, the horse-track of the Wild Huntsman, its profound and gloomy nines, its Spectre of the Brocken, and other wild traditions, clothe every mile of this Alpine forest with a fascinating and imperishable renown—a renown which the scientific explanations given to these phenomena in later times has as yet been incapable of obliterating.

Har'um-scar'um, a. [O. Fr. harer, harier, to stir up, and Eng. scare, to frighten suddenly.] Giddy: reckless; wild; rash; headstrong; precipitate; as, a harum-scarrum failtw. (Colloquially used.)

Harum pice, n. See Abusrics.

HARV

Harms'picy, s. Same as Arospicy (q. v.).

Har'ward, in Illinois, a post-village of McHenry co, about 63 m. N.W. of Chicago. Pop. (1897) about 2,000.

Har'ward, in Musschusetts, a post-town and township of Worcester co., about 25 m. N. by E. of Worcester, Pop. (1895) 1,162.

Har'ward, in New York, a post-village of Delaward co., about 21 m. S. by W. of Delhi.

Har'ward Umiversity, the oldest collegiate institution in the United States, situate at Cambridge, Mcss. It was founded in 1638, only 6 years after the establishment of this region by the English. Afterward, in 1639, the name, which was first Newtown, and then Cambridge, was changed to Harvard, in consequence of a liberal endowment of aht. \$3,500 left to it by the Rev. John Harvard, in 1638. From time to time small grants were made to the college by the town of Cambridge, and the legislatures of the colony, province, and State of Massachusetts; but since 1814 it has received no grants from the public treasury, and it may be said that from the first year of its existence it has depended upon the generosity of private individuals. A class of pupils began a course of study in the college under Nathaniel Eaton, as soon as Harvard's bequest was made known; but the progress of the institution was slow, and it was only in 1692 that the first degree of D.D. ever granted by Harvard College was conferred upon Increase Mather, then its president. A regular Professorship of and it was only in 1692 that the first degree of D.D. ever granted by Harvard College was conferred upon Increase Mather, then its president. A regular Frofessorship of Mathematics and Natural Philosophy was first instituted in 1727. The Professorship of Chemistry, and the first laboratory, were established in 1783. The site of a Botanic Garden was purchased by citizens of Boston in 1807, although the corporation in 1784 applied to the Legislature for help in this direction to enable the College to accept the offer of the king of France "to furnish such garden with every species of seeds and plants, which might be requested, from his Royal Garden, at his expense." In 1805 the Professorship of Natural



Fig. 1249. - HARVARD CHURCH.

Fig. 1249.—HARVARD CHURCE.

History was founded by the subscription of \$30,000 of a few citizens of Boston. In 1816 the Russford Professorship of the Sciences as applied to the Arts, was endowed out of a bequest of Benjamin Thompson, of Woburn, Mass., (better known as Count Rumford of Woburn, Mass., (better known as Count Rumford of Woburn, Mass., (better known as Count Rumford of Woburn, Hass., (better known as Count Rumford of Woburn, Hass., (better known as Count Rumford of Woburn, Hass., (better known as Count Rumford of Woburn, Mass., (better known as Count Rumford of Woburn, Mass., (better known as Count Rumford of Woburn, Mass., (better known as Count Rumford of Rumford Arts.) and the axis of the sumford of Assumethy was commenced by a subscription of John Quincy Adams and others, and in 1848 munificently endowed by Edward B. Phillips. in the sum of \$100,000. In 1820 the Professorship of Mineralogy and Goology was setablished, and the cabinet of specimens began to assume negatitude and value. In 1846 the building of the Lawrence. Scientific School was erected by Abbot Lawrence, who also endowed the Professorship of Civil Engineering and Geology. to a total amount, with his son's donation, of \$150,000. In 1859 the Museum of Vomparative Zoilogy was established on a basis of an endowment of \$50,000 by William Gray, and \$100,000 by the State, and of subscriptions in the sum of \$7,125 by individuals, and the consecration of the genius and enthusiasm of Louis Agassix to its inauguration, the value of which has since and the consecration of the genius and enthusiasm of Louis Agassiz to its inauguration, the value of which no amount of money can represent, and which has since secured over \$200,000 in money, and more than that in collections for the institution. In 1862, Baruel Hooper, of Boston, gave \$50,000 to establish a School of Mines. The Pasbody Museum of American Archaeology and Ethnology was founded in 1890 to found a Museum of Semitic Autiquities. Memorial Hall, built in honor of the alumni who fell in the Civil War, is the most imposing of the college edifices. It is 310 feet long, and 115 wile, and is largely occupied by an extensive dining hall, capable of accommodating 700 at table. Other edifices of note are Existensity Hall; Gore Hall; Holden Chapel; Divinity Hall, &c. The buildings occupy about fourteen acres of ground, which is tastefully laid out. The external administration was formerly vested in a Board of Overseers, composed of the Governor and Lieutenant-Governor of the Commonwealth, the President of the Senate, the Speaker of the House, the Secretary of the Board of Education, and the President and Treasurer of the University, all exafficio, and a body of 30 people, who are to drop out of the Board by 5 every year, the new members being chosen by the legislature. Since 1865 all State connection has ceased, by Legislature enactment. The internal government is administered by the faculty, composed of such of the college officers as are brought into immediate connection with the students by supervising their studies and conduct. There were in 1897 about 366 teachers and 3,600 students, of whom more than half are undergraduates, the others attending the professional courses, of which there are four—law, science, medicine, and theology. The academic year is divided into two terms, with vacations if seven weeks in July and August, and aix weeks in January and February. The recognition of science, and its application to industry, and the increase of the agencies and resources of instruction in H. U., have been slow; but since 1871–78, the standard of education has been greatly raised and extended, and this college is now one of our best literary and education. H. U., have been slow; but since 1871-18, the standard of education has been greatly raised and extended, and this college is now one of our best literary and educational institutions. In 1897, the University library had 473,000 volumes besides several hundred thousand pamphlets. The astronomical observatory is one of the finest in the East.

Hner'vest, n. [A. S. harrfest, harfest; L. Ger. harfst; D. herfst; Ger. herbst; Icel. haust, probably from Gr. harpisō, to pluck or gather fruit, from harpes, fruit.] The season of reaping and gathering in the fruits of the earth. (See Rrahmo.)—The ripe corn or grain, collected and secured in barns or stacks.

"Such seed he sows, such hervest shall he find." - Dr.

-The product of labor; fruit or fruits; grain.
"Let us the hereest of our labour eat." — Dr

a. To reap or gather ripe corn and other fruits of

the earth, for the use of man and beast.

Harvest-bug, n. (Zoll.) See Tronibidium.

Harvester, n. One who harvests, or gathers in the ipe crops.

ar'vest-fly, n. (Zoll.) See Ctcada.

ar'vest-home, n. The time of harvest.

"At hervest-home, and on the shearing-day." — Drydon

Har

-The song sung by reapers and harvesters, and the feast given when the harvest has been gathered in; or, the ast itself.

" Come, my boys, come, And merrily roar out harvest-home." — Dryd

And merrity rear out harvest-home." — Drysden.

The opportunity of collecting treasure. — Rhaks.

Har'vesting, m. The operation of pulling, cutting, rooting up, or gathering field-crops, and drying or otherwise preparing them for being stored for winter use.

The first harvest which occurs in this and similar climates is that of the forage grasses, or other plants made into hay; the next is the harvest of creal grasses, or of corn-crops; and the third the potato harvest, or harvest of root-crops, such as potatoes, carrots, turnips, mangold-wursel, &c. There is also the harvest of occasional crops; such as that of hops, rape-seed, turnip-seed, dyer's wood, hemp, flax, peaches, and various other products.

crops; such as that of hops, rape-seed, turnip-seed, dyer's wood, hemp, flax, peaches, and various other products.

Har'vest-lord, s. The bead resper at the harvest.

Har'vest-lord, s. The moon which during the autumnal months, when near its opposition, rises nearly at the same hour for several evenings. During the time that our satellite is full, and for a few days before and after, in all about a week, there is less difference between the time of her rising on any two successive nights than when she is full in any other month in the year. By this means an immediate supply of light is obtained after sunset, during the continuance of these harvest-moons, which is extremely beneficial to the husbandman for gathering in the fruits of the season. In order to gain an insight into this phenomenon, it must be borne in mind that the moon is always opposite to the sun when she is full; that she is full in the signs Piece and Aries, these being the signs opposite to Virgo and Libra, which the sun passes through in September and October, our harvest months. Thus, although, whenever the moon enters the two former signs (and she does so twelve times in a year), the same circumstance takes place with regard to the time of her rising, yet it is not observed on these other occasious, just because she is not full at the time. The reason of there being little difference in the time at which she rises on several consecutive nights, is, that at these periods her orbit is nearly parallel with the horizon. The H. M. are as regular in southern latitudes as with m in a northern latitudes, only they happen at different periods of the year.

Hast'vest-moduse, n. (Zoll.) Mus measorius, a small species of field-mouse, which abounds in England in the time of hervest-queem, n. An image representing Ceres, goddess of corn, anciently carried alout in triumph on

Har'vest-queem, s. An image representing Ceres, goddess of corn, anciently carried about in triumph on the last day of harvest, or harvest-home.

Har'vey, William, an English physician, and discoverer of the circulation of the blood, test folkestone, Digitized by

1578. The studied at the university of Cambridge, completing his medical studies and graduating M.D. at Padua. After his return to England he became fellow of dea. After his return to England he became fellow of the Boyal College of Physicians, and physician to St. Bartholomew's Hospital. In 1623 he was named phy-sician to James I., and he held the same post under Charles I. His great discovery, developed and com-pleted by careful and laborious investigation, was pub-lished in 1628, in the treatise entitled Exercitatio de Mots Cordis et Sanguinis. It was at once generally re-ceived, and though controversy was excited and many opponents started up, many more books were written in favor of than against it. And no Englishman wrote



WM. HARVEY. (FROM AN OLD PRINT.)

against it. The reputation of H. was European. against it. The reputation of H. was European. The only reply he published to any of his opponents was that to Riolanus, professor of anatomy, Paris. H. was author also of Exercitationes de Generatione Animalisms. He wrote other works, the manuscripts of which were mostly burnt during the civil war; two only being preserved in the British Museum. Died in 1657. Harvey, in Michigan, a post-village of Marquette co, on Lake Superior, about 4 m. S.E. of Marquette. Harvey, in West Virginia, a post-village of Raleigh co, 12 m. N.W. of Raleigh.

Harveysburgs, in Indians. a post-village of Foun-

12 m. N.W. of Raleigh.

Har'weysburg, in Indiana, a post-village of Fountain co. Pop. (1897) about 300.

Har'weysburg, in Ohio, a post-village of Warren co, about 41 m. N.E. of Cincliniati.

Har'wey's Five Points, in Pennylrania, a village of Westmoreland co, 32 m. E. of Pittsburg.

Har'wey's Store, in Virginia, a village of Charlotte county.

COUNTY.

Has'veysville, or HARVETVILLE, in Pennsylvania, a post-village of Luzerne co., about 108 m. N.E. of Harrisburg.

Has'vieland, in Kentucky, a post-office of Franklin co.

Har'vieland, in Kentucky, a post-office of Franklin co. Har'viella, in Missouri, a post-village of Butler co. Harwich (kürrij), a town of co. Essex, England, on the German Ocean, 8 m. S. E. of Ipswich, on the estuary formed by the Stour and Orwell; Lat. 51° 56′ N., Lon, 10° 17′ E. H. has one of the best harbors on the E. coast of England, which is much used as a port-of refuge during easterly winds. Pop. (1897) about 6,250.
Harwich, in Massachusetta, a post-township of Barnstable co., about 99 m. S.E. of the city of Boston. Pop. (1893) 2,734.
Harwichmort. in Mussachusetta a post-village of Harwichmort. in Mussachusetta a post-village of

ar wichport, in Massachusetts, a post-village of

Har'wington, or Harwinton, in Connecticut, a post-town and township of Litchfield co., about 23 m. W. of Hartford.

town and township of Litchfield co., about 23 m. W. of Hartford.

Hartwood, in Missouri, a post-village of Vernon co. Hartwood, in North Dakota, a post-office of Cass co. Hart, in Germany. See Hart.

Has, (has,) the 3d person singular of the verb Have, q. v. Has, (has,) the 3d person singular of the verb Have, q. v. Has, browetk, in Now York, a post-village of Sullivan co., on Neversink River, abt. 12 m. N. N. E. of Monticello. Has, drubal, or As, drubal, a name of many celebrated Carthaginians, of whom the most prominent are:

1. The son-in-law of Hamilicar Barca, who accompanied his father-in-law to Spain, a. c. 236, and for 8 years after the death of the latter continued to carry out the plans of his great kinsman. He was killed by a slave, a. c. 220.

2. The general who defended Carthage with great energy and skill against the Romans in the third Punic war, when Carthage fell. H. was carried prisoner into Rome to adorn the triumph of Scipio. —3. H. Barca, brother of the great Hannibal, who bore a conspicuous part in the second Punic war, first as the opponent of the Scipios and the conqueror of Cn. Scipio in Spain, and afterwards as the commander of a Punic army in Italy. He was killed at the battle of Metaurus, B. c. 207.

Hash, v. a. [Fr. hacher. See Hack.] To chop into small pieces; to mince and mix; as, to hash a chicken.

—n. That which is hashed or chopped; particularly minced meat, or a dish of meat and vegetables chopped into small pieces and mixed; as, mutton hash.—Old matter remixed for use; a second preparation, or rechauffee; as, anecdotal hath.—Anything badly executed, or confusedly applied; as, he has made a hash of the affair.

the affair.

Hash'ish, Hasheesh, Haschisch, n. See Hemp (Indian).

Has'kell Flats, in New York, a P.O. of Cattaraugus co.

Has'kinsville, in Keslucky, a village of Greene co.

Has'kinsville, in Ohio, a village of Huron co.

Has'kinville, in New York, a p.-vill. of Steuben co.

Has'ler, in Michiam, a village of Lapeer co.
Has'let, Has'let, a. [Icel. hasla, a bundle.] The heart, liver, and lights of a hog, &c., used for food.
Hasp, n. [A. 8. haps; L. tier. and D. häpe, hespe; Icel. hespa; Norm. haspe.] A clasp that passes over a staple to be fastened by a padiock.—A spindle used in winding silk thread. &c.—(Apric.) An implement used for scarliying the surface of grass land.
—e. a. To close or fasten with a hasp; as, to hasp a gate.
Has'sam Pacha, grand vixier of the Ottoman empire, was said to be an African by birth, and, when young, served in the Algerine navy. In 1:60 he went to Constantinople, and entered the Turkish service. Here he soon distinguished himself by his superior skill and bravery, and was appointed capitan pacha, or high admiral. He vanquished the Exyptian insurgents; took Gaza, Jaffa, and Acre; and beheaded the famous Daher, shek of the latter city, who had for years defied the power of the Porte. He twice reduced the beys of Exypt to subjection, and carried with him wast treasures to Constantinople. In the war between Turkey and Russia, in 1788, although Hassan was then 85 years old, he was appointed to the supreme command of all the forces, and made grand vizier; but though there was no want of energy on his part, age had impaired his shillites, and the Ottoman forces were subjected to repeated discomfiture. The vizier was accordingly dismissed from his high command, and put to death in 1790.
Has'san, in Ohio, a post-office of Hancock co.

thony.

Has'sam. in Ohio, a post-office of Hancock co.

Has'se, Johnn Adolph, a German musical composer, at Bergedorf, near Hamburg, 1699, is deservedly celebrated as one of the most natural, elegant, and agreeable composers of his time. D. in Venice, 1782.—His wife, Faustina, who died in the same year, aged 90, was eminent as the inventor of a new method of singing, by running divisions with astonishing neatness and precision.

Hasse, Karl Ewald, a celebrated German physiologist and pathologist, B. 1810 in Dresslen. was professor of special pathology and clinical medicine in Güttingen from 1866. His principal works are Anatum. Beschreibung der Krankheiten der Circulations und Respirations of the composition of the compositio

special pathology and clinical medicine in Göttingen from 1866. His principal works are Anatom. Beschreibung der Krankheiten der Circulations und Respirations-Organe, which has been translated into English and Dutch; and Die Krankheiten des Neuen Apparats, which forms the fourth volume of Virchow's Handbuch der Puthol-gie und Therapie.

Hass'self, a fortified town of Belgium, cap. of Belgian Limburg, on the Demer, 45 m. E. of Brussels. Manuf. Cloths, linen, soap, brandy, gin, chloory-coffee, &c. Pop. 10.780.

Cloths, line Pop. 10,780.

Pop. 10,780.

Has'sock, \*\*. [W. herg. sedge, rushes.] A thick mat or cushion on which persons kneel in a church.

—A sandstone quarried in Kent, England, and sometimes used for the interior walls of churches.

Hast, the second person singular of llavs, q. v.

Hast'tate, Hast'tated, Hast'tle, a. [Fr. hast'e, from Lat hada, spear.] (Bot). Having the form of a spear or lancehead; as, a hastate leaf.

Hasta'ti, n. [Lat., from hasta, a spear.] (Rom. Hist.)
One of the three grand divisions of the Roman infantry, so called because they were armed with spears. It consisted of young men in the flower of life, who were alsisted of young men in the flower of life, who were al-

sisted of young men in the flower of life, who were always drawn up in the first line of battle. The other two divisions were called principes and triarit, to which was added another, called collies, or light troops.

Haste, (hds.) n. [Ger., Swed., and Dan. hast; Fr. hdte; O. Fr. haste; A.S. cfst; probably allied to Lat. festino, to make haste, from fro, to bear, to carry.] Cleirnity of motion; speed; quickness; swiftness; dispatch; expedition;—applied to the voluntary movements of men and animals.

-Hurry; sudden excitement of passion; vehemence; pronce; precipitation; rashness.

"Married in Acets, we may repent at leisure." - Congr **Inste, Hasten**, (hāsn.) v. a. [0. Ger. hastn.; Swed. hasta; A.S. cistian.] To press; to push on; to drive, urge, or impel forward; to precipitate; to accelerate the movement of; to expedite; to quicken; to hurry.

"To save us now, you must our ruin Acete."-Dry To be rapid in motion; to move with quickness or celerity.

"The sprightly court
Leave their repose, and hasten to the sport."

**Hastener**, (hds'n-dr.) n. One who hastens, or drives or urges forward. — A kind of tin oven, open in front, and placed behind meat while roasting, to confine and

reflect the heat of the fire.

Has'tile, n. Same as HASTATE, q. v.

Has'tily, adv. In haste; speedily; nimbly; rapidly: with speed or celerity.

"Come hither! blither, oh, come hastily!"—Spensor.

Come hither! hither, oh, come hastily !"-Spend

Rashly: precipitately; without reflection or delibera-tion; as, to act hastily. Passionately; rehemently; impatiently; under sudden excitement of spleen or passion; as, the words were

excitement of spleen or passion; as, the words were spoken hastily.

\*\*Tas\*\* fine-sas, n. State or quality of being hasty; haste; speed; quickness or celerity in motion or action; rashness; precipitation.—Irritability; warmth of temper; testiness.

Earl of Moira, B. 1754, distinguished as a British officer in the American war, in Holland, and the East Index, and as governor-general of India from 1812 to 1822, and governor of Maita, 1824. D. 1826.

Has 'timera. Warrer for

governor of Maita, 1824. D. 1825.

Lan'tings, Warraw, first governor-general of British
Iudia, B. 1733, at Churchill, in Worcestershire, of which
parish his father was rector. He was educated at Westminster, and at the age of 17 went out to Isdia as a
writer in the Company's service. On his arrival he spwriter in the Company as service. On his arrival serp-plied himself with diligence to the duties of his station, and at his leisure studied the Oriental languages. After 14 years' residence in Bengal, he returned to England; but in 1769 he went out as second in council at Madra, where he remained about two years, and then removed to Calcutts as president of the Supreme Council of Bento Calcutta as president of the Supr-me Council of Regal. This was a critical period, and the state of Hindostan soon became perilous from the revolt of the native subjects, the defection of allies, and the increasing power of Hyder Ally, the sovereign of Mysure, sided by the land and sea forces of France. In this exigency the governor-general had to depend solely upon his own exertions; and he succeeded, beyond all expectations, in saving British India from a combination of enemies, and in increasing and strengthening the power of the Company at the expense of the native princes. Notwithstanding this, party spirit at home turned this merit of H. into a crime, and charges were brought against him in Parliament. In 1786 he returned to England, when was accused of having governed arbitrarily and trees. in Parliament. In 1788 he returned to England, when he was accused of having governed arbitrarily and transically, of having extorted immense sums of mooer, and of having exercised every species of oppression. An impeachment, conducted by Burke, followed, which, in contempt of all the principles of justice, lasted 9 years. He was at length acquitted, and sentenced to pay only the costs of the defence, above \$350,000, for which the East India Company indemnified him by a pension of \$20,000 for life. He lived, nowever, to see his plans for the security of India publicly applanded. D. 1818. Has 'thugs, a maritime town of England, co. Sussex, M. M. S.E. of London. H. is one of the Ciuque Ports. It had formerly a good trade, now declining, but is greatly resorted to as a fashionable watering-place. Here the battle of H., one of the most memorable events in the annals of English history, was fought between William,

battle of H., one of the most memorable events in the annals of English history, was fought between William, duke of Normandy, and Harold II., king of England, on the 14th of Oct., 1066. The Norman invader landed at Pevensey, on the coast of Sassex, on the 29th of Sept. and afterwards marched to H., where he encanged, haring with him an army of 60,000 men. Harold II., who was at that time in the north with his army, as soon as he received news of this event, husteneds outhward, and came in sight of the Normans on the 13th of Oct. He navigally received to risk a battle the usext day and came in sight of the Normans on the 13th of Oct. He unwisely resolved to risk a battle the next day, and both armies were drawn up in regular lines at a place called Senlac, now Battle, near H. The conflict was long and bloody, lasting from sunrise to sunset: but at length the English were defeated, Harold, his two brothers, and many of the nobility being among the shain. After this event, William had little difficulty in establishing himself upon the English throne; and a memorable epoch was introduced in the annals of the country by what is known as the "Norman Conquest."



Fig. 1251.—BATTLE ABBEY, HASTINGS.

Fig. 1251.—BATTLE ARBEY, HASTINGS.

In 1807, William founded an abbey near the place where the victory was gained, which is now known as "Battle Abbey." Pop. (1891) 52,340.

Has'tings, an E. central co. of prov. of Ontario; sea, about 1,325 sq. m. It is interspersed with numerous lakes and rivers. Cop. Belleville. Pop. 59,229.

Elas'tings, in Michigan, a city, cap. of Barry co., on Mich. Ceut. R.E., 40 m. W. by S. of Lansing; has various manuf. Pop. (1894) 3,014.

Has'tings, in Microscota, a city, cap. of Dakota co., on the Mississippi river, and C., M. & St. P. R. R. 20 m. S. of St. Paul; has abundant water power and a fine trade. Pop. (1895) 3,848.

Has'tings, in New York, a post-village and township of Oswego co., about 20 m. N. by E. of Syracuse. Pop. (1890) 2,364.

(1890) 2,364. Has 'ilmgs, in Ohio, a post-village of Richland co. Has 'ilmg's Sand, s. (Geol.) A name given to a division of the Wealden Beds (q. v.), consisting of sad, clay, shale, and calciferous grit. They are of fresh-water Has'ting-pear, n. A description of early pear;
sometimes called, also, green-chissel.

Has'tings, n. pl. [From hasty.] Fruit or vegetables matured early, particularly early peas.

"The large white and green hastings are not to be set till the cold is over."—Mortimer.

Has'tings, Francis Rawdon, (Marquis or,) son of the Has'ty, a. [Ger. hastig; Swed. hastig.]

Digitized by GOO

Speedy; quic...; expeditious; forward; early ripe; — in contradistinction to sime; as, hasty fruit.

-Eager; precipitate; rash; easily stirred or excited; — the antithesis to d-liberate; as, hasty words.

-Irritable; passionate; irascible; impetuous; as, a hasty

temper.

Has'ty-pud'ding, n. A pudding made of flour stirred in boiling milk or water till it becomes stiff; the term is also sometimes applied to oatmeal-porridge.

(England.)
"Sure heaty-pudding is thy chiefeet dish." - Lord Do

(England.)

"Bare heaty-pudding is thy chiefest dish." — Lord Dorset.

Mush, or a thick batter-pudding made by mixing Indian meal with boiling water. (U. States.)

Hush, n. [A.S. hat; Ger. hut; D. hoed; Fris. had; Icel. Acttr; Dan. hat; W. het; Ir. hata; Sansk. chad, to cover.]

A covering for the head, made of various materials, and worn by men and women, both for protection of the head from the weather, and for ornament. The history of the hat is necessarily mixed up with that of head coverings generally, its leading mark of distinction from the cap or bounet being its possession of a brim. The actual distinction between the head coverings of men and women, however, is arbitrary, and varies with the fluctuations of fashion. The hat is a direct descendant from the Greek potausa, which was distinguished from the pulses, the other form of Greek head covering, by the possession of a brim, designed to afford protection from the rays of the sun. These hats were made of felt, which seems to have been the material of ancient hate in general. The use of hats of felt first began in England about the period of the Norman conquest, probably as an importation from the continent. In the prologue to Chaucer's Canterbury Tales, he describes the merchant as wearing "a flaundrish bever hat." Beaver felts became common about the period of Queen Elizabeth, and fine beaver hats continued for thee centuries to be worn by the richer people of Great Britain, though to-day such a thing as a genuine beaver hat is unknown. The manufacture of felt hats as a distinct trade was established in Nuremberg about 1380, and hats of this character became fashionable in France in the latter part of the reign of Charles VI., who died Oct. 21, 1422. Charles VII. is reported to have worn a to-day such a thing as a genuine leaver hat is unknown. The manufacture of felt hats as a distinct trade was cetablished in Nuremberg about 1380, and hats of this character became fashiouslie in France in the latter part of the reign of Charles VI., who died Oct. 21, 1422. Charles VII. is reported to have worn a white felt hat at his entry into Rouen in 1449. Hats and plumes were worn at the court of Edward III. at the institution of the Garter. The Pope of Rome was in the habit of sending "bleesed hats" to princes and commanders of armies who deserved the gratitude of the Roman Catholic Church. These hats were of violet silk, lined with ermine, and embroidered with gold and gewels. They were blessed by the Pope, in solemn conclave, on Christmas Eve. The last hat of this description was given to Gen. Daun, after the capture of Hochkrichen, in 1758. The crowns of the hats worn at the commencement of the 18th century were round. The Jews of Spain were formerly compelled to wear yellow hats. In many towns in Germany, bankrupts had to wear green and yellow hats. The manufacture of felt hats began early in the American colonies, and in the later years of the 17th century the exportation of wool, raccoon, and other felting furs was forbidden in Massachusetts and Pennsylvania, while in 1722 Parliament was asked to prevent the importation of hats from the colonies, as it was injuring the trade of the English hatmakers. Colonial hat making was thereupon severely restricted, and this business did not become active again in America until after the Revolution. Napred hats, or those having a map of beaver fur felted into a prepared "body," were widely produced in the U. S. up to 1834, when the silk, or "water-proof" hat was introduced from France. The cheapness with which these hats were made abord drove many hat makers out of the business, and camed a later concentration of the trade of large factories, the principal materials of which hats mean and premarker. The principal materials of which hats made of silk plush, drawn

the hat. Slik hats are made of fine slik plush, cemented on a prepared body and rim of cotton cloth saturated with varnish to make it stiff and water-proof, the plush being very carefully laid, so as to prevent the seams from being shown. Opera hats or crush hats are made with a spiral steel frame which will flatten with pressure, over which a covering of merino is stretched.—The Prancing Aut is made from fine veretable filters, closely sure, over which a covering of merino is stretched.—The Panama Aat is made from fine vegetable fibers, closely interwoven, and is by for the best of the so-called straw hats. Specimens have been made weighing only 1 to 2 ounces, and the average weight is only 3 oz. These hats are exceedingly durable, but the genuine cost from \$10 to \$^50 each, depending upon the quality. (Ecol.) The distinguishing dignity of a cardinal; derived from the broad-brimmed scarlet hat which forms part of his ecclesiastical attime.

part of his ecclesiastical attire.

Hat'able, a. That may be hated; meriting hatred;

Hat'-band, s. A band affixed around the crown of a hat; specifically, a band of crape, &c., worn as a sign of

mourning.
"His coat and hat-band show his quality."—Dryden

"His coat and hat-band show his quality."—Dryden.

Hat'boroughs, in Pennsylvania, a post-borough of

Montgomery co., about 16 m. N. of Philadelphia.

Hat'-box, Hat'-case, n. A box, or leathern receptacle for depositing or carrying a hat in:—when intended for a lady's hat, it is generally termed a band-box.

Hat'-brush, n. A small hand-brush used for brushing and dressing a hat.

Hatch, v. a. [Fr. hacher.] To cross with lines in drawing and engraving in a peculiar manner. (See HATCHING.) "Those halching strokes of the pencil."—Dryden.

Hatch, v. a. [Ger. hecken, allied to hügen or hegen, to fence, to protect, to foster, to cherish.] To breed; to bring forth young; to produce from eggs by incubation, or by artificial beat. Hatch, v. a.

"He hatches plenty for th' ensuing spring."-Denk "He saccase peanty for the ensuing spring."—Denkem.

"To contrive, plot, or form by broading over, or by meditation, and bring into being; to originate and mature in silence; as, to hatch a conspiracy, to hatch mischief.

-r. n. To produce young; to bring the young to a matured state; as, eggs that are hatching.

-n. A broad; as many chickens as are incubated at once.

-The act of exclusion from the egg.—Disclosure; discovery; revelation; development.

"The hatch and the discloss will be some danger."—Sacks.

"The katch and the disclose will be some danger." — Skatr.

Hatch, n. [A. S. heca; Dan. hek, a railing, a grating, a grate.] The shut or fastened part of a door, the part above being open. — A fish-weir in a river. — A bedframe; a bedstead. (Sir W. Scott.) — The opening in the floor of a warehouse. — (pl.) Flood-gates in a river to stop the current of the water.

To close or secure with a hatch; as, to hatch the

door.

Hatch'ee, or Hatchir, a river, which, rising in Tippah co., Mississippi, passes through the S.W. part of Tennessee, and enters the Mississippi River near Randolph. It is navigable by steamioans to Bolivar, about 150 m. from its embouchure. An action occurred at Davies's Bridge on this river, Oct. 6, 1862, between a Confederate force under Gen. Van Dorn, and one of National troops under Gen. Ord, in which the former were defeated with the loss of 300 prisoners and two batteries. Gens. Ord and Vestch were wounded during this battle.

Hatch'el, m. See HACKLE.

Hatch'el, v. a. To draw through the teeth of a hatchel or hackle.

heres, &c. pl. (Nast.) The coverings for the hatch-ways of a ship. made with ledges, and laid with oak or pine, which are, in very laid weather, battened down to keep the water which comes in upon the decks from getting below.—(Mining.). An excavation made in a mine.—To be under hatches, to be confined below; hence, mine.—To be under hatenes, to be communed to be in bondage, distress, or durance.

"Though his body's under hatches, his soul has gone aloft."

Dibd.

Hatchet, (hach'rt.) n. [Ger. hacke; Fr. hachette, a small are, from hacher; A. S. haccan, to hack.] A small hacking or chipping instrument; a small are with a short helve, to be used with one; hand.

To bury the hatchet, to make friends again; to restore peace.— To take up the hatchet, to declare war; to break peace or amity. (These expressions are taken metaphorically from the practice of the N. American Indians.)

Hatch'et-face, n. A sharp, prominent cast of counte-nance, st.ch as might be hewn out of a block of wood by a hatchet.

"An ugly bean adores a hatchet-face."-Dryden

"An ugly bean adores a hatchet-face."—Dryden.

Hat'e hettite, n. (Min.) (Called also mountain-tallmo, and mineral adipocere.) A yellowish, wax-like substance, found in nodules of iron-stone in the coal-measures of Merthyr Tydyil and elsewhere. Comp. Carbon 85:55, hydrogen 14:45.

Hatch' Hollow, in Pennsylvania, a P. O. of Eric co.

Hatch' Hollow, in Pennsylvania, a P. O. of Eric co.

Hatch'ing, n. (Pine Arts.) The practice of shading with a black lead-pencil or pen; it is done either in straight lines or zigzag strokes, such as are seen in pencil-drawings, or in pencilled backgrounds. It is used by engravers in etching.

Hatch'ing, n. (Ger.hecken, to hatch.) The incubation or lying down of an animal upon her own or another's eggs, and so communicating heat to them. By this means she maintains them at her own temperature,—

a condition essential to their development. The development of the fectus takes place in many animals after the exclusion of the egg, and while it is kept in external contact with the parent's lody, as in the case of the crab and lobater tribes, beneath the candal plates; or agglutinated to the surface of the abdomen, as in certain species of pipe-fish; or concealed in cutaneous marsupial cavities, as in other species of the Ryngnatus and the Hippocampus; in the case of those cold-blooded animals, however, the protection of the uva seems to be the object, and not communication of warmth. True H., or incubation, only takes place among the oriparous warm-blooded animals—namely, birds. A due degree of warmth is absolutely necessary in H. The mean temperature required is 100° Fahr; it may vary from 50° to 105°, and towards the close of the process may be suspended for one or two hours, or even for a longer period, according to the amount of extraneous heat which the exposed eggs receive. The power which birds possess of communicating the proper amount of heat to their eggs depends upon a peculiar plexus of vessels distributed over the skin of the abdomen, which in most birds is concerted with a derivation of blood from the internal organs of generation. The unconvollable propensity which birds have to incubate arises from the vascular, hot, and sensitive condition of the abdomen. The eggs of the bird present several peculiarities in relation to the circumstances under which the featus is to be developed. By their oval form they present a large surface to the source of heat, while the a condition essential to their development. The devel the feetus is to be developed. By their oval form they present a large surface to the source of heat, while the hard calcareous nature and arched form of the shell present a large surface to the source of heat, while the hard calcareous nature and arched form of the shell protects them from injury from the incumbent pressure of the parent bird. The shell is also porous, which assists the heat and air to pass into the egg, and the germ is surrounded by a sufficient store of nutritive matter. The matter is of two kinds,—the internal part, called the yolk, and the external, called the white or albumen, which entirely disappears during the process of H. The germ is situated at the superficies of the yolk, beneath the membrane, in the circular opaque white spot usually called the thread. The period of incubation is generally in proportion to the size of the bird; but the degree of development at which the young bird arrives differs in various species. Many lirds show wonderful instinct in the manner in which they prepare their nosts, not only for the process of H. their young, but also for their protection and warmth after being hatched. The practice of arrificial H. was well known in ancient Egypt and China. At the present day artificial H. by means of ovens, stoves, or steam, is greatly practised in the former country, and it has been calculated that nearly 93,100,000 chickens are annually hatched in the ovens of Egypt. See Incusaron.

Histelm'ement, n. [Corrupted from achierement.] [Her.] An armorial escutcheon (lozenge-shaped) suspended in front of a house, in a church, or on the hearse at funerals, to mark the decease of a member of the family. (See Fig. 965, art. Escurcheon.) The H is always drawn up with heraldic precision, so that from the form and accompaniments of the field, and the color of the ground of the H. the sex, position, and rank of the deceased may be known.

may be known.

may be known.

Hatch ville, in Massachusetts, a P. O. of Barnstable co.

Hatch way, n. (Naut.) A large square opening in
a ship's deck for communicating with the decks below,
the hold, &c.; there are the fore, main, and after hatchways, corresponding with the several divisions of a
ship. — A square opening or aperture cut in a floor to
give access to another floor, or to a cellar; a hatch.

Hate, v. a. [A. B. hatian; D. haaten; Ger. hassen;
Goth. hatjun. Root Sansk. att, to despise, to hold in
slight esteem.] To detest; to loathe; to short-ic abominate: to dislike greatly; to have a great aversion to.

—n. Intense dislike or aversion; active antipathy; batred.

"Hauthy Juno's unresenting hate." — Profes.

" Haughty Juno's unrelenting hate." - Dryde

"Haughty Jano's unreleating hate."—Drydon.

Hate'ful, a. Exciting hate, or extreme dislike, aversion, antipathy, or disgust: odious; detestable; abominable; loathsome; abhorrent; as, a hateful wretch, a hateful alternative, a hateful presence. —That feels, or expresses hatred; malignant; malevolont; as, "hateful eyea."—Drydon.

Hate'fully, adv. Odiously; with great dislike; malignantly; maliclously; in a hateful manner.

Hate'fullness, n. Quality of being hateful, or of exciting aversion or disgust; odiousness.

Hate'en, n. One who hates.

Hat'er, n. One who hates.
"I respect a good Aster." -

"I respect a good hater."—Dr. Johanon.

Hat'field, a town of England, Hertford co., 7 m. 8.W. of Hertford, on the Lea. Manuf. Unimportant. Here is the palace where Queen Elizabeth was imprisoned during a portion of the reign of Mary. Ppp. 3,862.

Hat'field, in Massachustis, a post-township of Hampshire co., abt. 100 m. W. of Boston.

Hat'field, in Pransylvania, a village of Alleghany co., on the Alleghany River, abt. 3 m. N. of Pittsburg.—A post-village and township of Montgomery co., abt. 25 m. N. of Philadelphia.

Hat Island, in Vilnois, a post-office of Jackson co.

m. N. of Philadelphia, a post-office of Jackson co. Hatless, a. Without a hat. Hat. Has., a. (Com.) A small sum, also called Paimag, paid to the captain and mariners of a vessel, over and above the freight, for their care and trouble. The amount is regulated by the custom of each particular place. — See Paimage.

Hato Viejo (hatto re-atho), a town of the Republic of Colombia; Lat. 69 22' N., Lon. 7.59 38' W.

Hatrod, s. Great aversion; extreme dislike; ill-will; active antipathy; enmity; malevolence; rancor; malignity; odium; detestation; loathing; abhorrence.

"Heave has no rage like love to Astreat turned."—Origrame.

aven has no rage like love to Astred turned."-Congre Digitized by GOOGIG Hat'ted, a. Wearing a hat; covered with a hat.
Hat'temista, n.pl. (Eccl. Hist.) Formerly a religious sect in Holland, so called from the founder, Pontian Yan Hattem, a minister in Zealand, and nearly thin van Hattem, a minuter in zentanu, and nearly allied to the Verschorists. They arose in the latter part of the 17th century, and appear to have denied the existory sacrifice of Christ. It is added, that they denied the corruption of human nature, and the difference belween moral good and evil.

tween Lioral good and evil.

Hat'ter, a. A maker of hats; a vender of hats.

Hat'ter, a. A maker of hats. See CAPE HATTERAS.

In the same co., an inlet of Pamilico Sound, defended by the forts Hatteras and Clark. These two Confederate forts, attacked Aug. 28, 1861, by a National naval expedition under Commodore Stringham, and the land-forces of Gen. Butler, surrendered Aug. 29.

Hat'ting, n. The business or practice of making hats.

Hat'ting-heriff, n. [From Ar. hatt, a writing, and Turk sherif, excellent.] A firman, edict, or decree, countersigned by the Turkish sultan.

Hat'tle, a. [From Lat.] An English provincialism, signifying wild, intractable, rantipole, skittish; as, a hattle coit.

Hat'tock, n. [Scot.] An English provincial term for a shock or sheaf of unthreshed grain; as, a hattock of

barley.

Hatt's Shop, in Georgia, a village of Talbot co.

Hatt's Shop, in Georgia, a village of Talbot co.

Hatt's Shop, in Georgia, to cover.] A piece of armor, heals, the neck, and beorgan, to cover.] A piece of armor, supposed to be of German origin, common in the chain mail, or rather ringed mail, of the 12th century; being a jacket or tunic, with wide sleeves reaching a little below the elbow, the hood being of one piece with it. The H. of ringed mail ceased to be worn about the reign of Henry III. of England, when the Oriental chain-mail, properly so called, came into fashion for a short period. In France, only persons possessed of a certain estate called un fed de hauber, were permitted to wear a H., which was the armor of a knight; esquires wore only a simple coat of mail without the hood and hose.

Haub'stadt, in Indiana, a post-village of Gibson co.,

simple coat of mail without the hood and hose.

Haub'stadt, in Indiana, a post-village of Gibson co., about 18 m. N. of Evansville.

Hau'erite, n. (Min.) A reddish-brown or black mineral, often in octohedral crystals, from Kalinka, Hungary; sp. gr. 3-463. Comp. Sulphur 537, manganese 463.

Haugh, (haw) n. [A. S. hig, an inclosure.] A term applied in Scotland to a meadow or pasture.

—[O. Fr. haugh.] A dale. See Haw.

Haughtily, (haw'te-le.) n. In a haughty manner; arroganity: proudly; with contempt or disdain.

Haugh'timess, n. Quality of being haughty; pride mineled with some degree of contempt for others; high-mindedness; loftinoss; arrogance; disdain; supercli-

mindedness; loftiness; arrogance; disdain; supercil-

minutures, intenses, arrogance; distain; superclipionaness.

Haughty, (haw'te.) a. [O. Eng. hautain, from O. Fr. haultain, hautain; It. altero, proud. haughty, from Fr. hault, It. alto, Lat. altus, high. See Altitude.] High; bold; lofty; prominent; hazardous; as, a haughty mountain, a "haughty enterprise." (Syenser.) - Proud and disdainful; having a high opinion of one's self, with some contempt for others; lofty and arrogant; supercilions; overhearing; as, "haughty Britain." (Prior.) — Proceeding from excessive pride; manifesting disdain or arrogance; proud and imperious; as, haughty manners.

Haul, r. a. [Fr. haler, to draw haughty manners. to fetch; probably altied to Gr. helkö, to draw or drag, and to Ar. kalo, to draw, pull, or tear out.] To druc; to draw; to tug; to compel to move or go; as, to haul a rope.

rope.
"The romp-loving miss is hauf'd about."—The

To hand the wind. (Naut.) To direct a ship's course nearer to the point of the compass from which the wind

v.n. (Naul.) To change the direction of a ship's course as, to haul for the land.

n. A pulling or dragging with force; a violent pull. "The leap, the slap, the haul."-Thos

m. A pulling or dragging with force; a violent pull.

"The leap, the slap, the hauk"—Thomson.

A draught of a net; as, to take a thousand herrings at a haw!—A quantity of anything taken at once; as, the burglars made a heavy haul of plate.

A quantity of varn, about 400 threads, warped with a twist off a winch, and tarred for making a rope.

Haulage, (hawlegi), n. Act of hauling; also, the dues or fees paid for hauling.

Haul'er, n. One who hanls, tugs, or drags.

Haul'er, a. One who hanls, tugs, or drags.

Haul'er, a. One who hanls, tugs, or drags.

Haul'er, drawms, (hawm, n. [A. S. healm; der. halm; Fr. chaume, from Lat. calamus, a reed, a stalk; Gr. kakmos; Ar. kalum, a writing-reed.] The stem or stalk of grain, and other vegetable products; stray; dried stalks and leaves of plants.—A hame; a part of a horse's harness.

Haunch, (hanh.) n. [Fr. hanche; It. anca; Gr. angka, a bend or hollow.] The bend or hollow where the thigh is joined to the body; the hip; the rear; the hind part; as, a hanch of venison.

—pl. (Arch, and Engineering.) A term used to express the filling in of the masonry required to make up the horizontal iline of the structure between the voussoirs of the arches and the line of the string, which is generally introduced over the whole series. The H. are, in fact, the horizontal filling introduced to complete the structure. The purpose of the H. is to bring down the pressure of the roadway, or of the superstructure, upon the arches, and this is done in the most effectual manner by directing the line of thrust normally to the arch: in some of Smeaton's, and in the early Roman bridges, in some of Smeaton's, and in the early Roman bridges, in some of Smeaton's, and in the early Roman bridges, in some of Smeaton's, and in the early Roman bridges, in some of Smeaton's, and in the early Roman bridges, in some of Smeaton's, and in the early Roman bridges, the propose of

hent, or hend, a way, a path, a coming.] To frequent; to resort to too much or often, or to be much about; to visit customarily; to come too frequently; to intrude on; to trouble with incessant visits; to follow impor-'Celestial Venus Assants Idalia's groves."—Po

To frequent or inhabit, as a spectre or apparition; to visit, as a ghost or inmaterial presence.

"Your fates, your furies, and your haunted town."—Pope.

To make a habit of: to practise: to indulge in custom

arily.

-v. n. To be much about; to visit, or be present often.

"I've charged these not to Assaut about my doors..."—Sheke.

n. A place to which one frequently resorts; a place much visited or frequented; as, his favorite haunt is the

**Haunt'ed**, p. a. Customarily visited or resorted to, especially by apparitions; troubled by frequent visits; especially by apparitions; troubled by frequent visits; as, a haunted house.

Haum'er, n. One who haunts or frequents a particular place, or is ofter about it.

"O goddess, haunter of the woodland green."—Dryden.

Haup pauge, in New York, a post-office of Suffolk co.

Hau pur, a town of British India, cap. of a district of
the same name, 20 miles W. of Meerut. H. contains a
treeding-stud for cavalry horses. Pop. 15,400, of whom

two-thirds are natives.

Hau rient, a. (Her.) A term applied to a fish placed in pale, and having its head in chief, as if rising to the surface for air.

Haus'manuite, n. (Min.) Native oxide of magnese. It occurs both massive and crystallized. ganese. It occurs both massive and crystallized. Its color is brownish-black; lustre somewhat metallic. Sp. gr. 4.722. Comp. Manganese 721, oxygen 279. Found at Lebanon, Pa

Hausse, v. (Gun.) A kind of breech-sight for a can

Haussemann. (hou \*man.) Georges Eugène. Banon.

s. at Paris, 1809. Atter filling various public positions,
he was appointed, in 1853, Prefix of the Seine, and under
his active direction and enterprising spirit, works have
been executed in Paris of such a nature as almost to
transform it into a new city. In 1862 he received the
Grand Cross of the Legion of Honor, and on the accession of M. Ollivier's government, early in 1870, resigned
his office. Died Jan. 1, 1891.

Haus'tellate, a. From Lat. haustellum, q. v.] Furnishel with a sucker, as certain insects.

Haus'tellaten, a. Lat., sucker.] (Zoil.) The instrument of suction (in insects) contained in the Theca.

Hautboy, (h'ibmi), m. [Fr. hautboits; haut, high, from
Lat. allus, and bois, wood.] (Mu:.) A high-toned instrument, somewhat resembling a flute. See Osoz (the
Italian and moders spelling).

(Bot.) A species of strawherry, Fragaria elatior.

Hautboy, ist, (h'booist.) n. A player on the hautboy; an oboelst.

boy; an obosist.

Haute-Garonme. See Garonne (Haute).

Haute-Haute-He, (hô'd) an island of British N America, in the Bay of Yundy, abt. 8 m. 8.W. of Cape Chignecto.

Haute-Loire. See Loire (Haute).

Haute-Marne. See Marke (Haute).

Haute-Sagne. See Saone (Haute).

Haute-Sagne. See Suns (Haute).

Haute-Vienne. See Vienz (Haute).

Hautes, and Bas'zes Alpes, the names of two contignous French departments. 1. The Hautes Alpes, which was formed of a part of the old prov. of Dauphiné, is traversed by the chief range of the Cottian Alps, which here rise, in Mount Pelroux, to the height of 14,000 fr., and in Mount Orun, to 13,120 feet. It is the highest dep. of France. The climate is severe, the win-

Provence, and is, for the most part, mountainous, consisting of offshoots from the Maritime Alps, which run in numerous chains toward the Rhone. In the N. the climate is cold, and the soil poor; but the S. owns a fine climate, and produces excellent fruits and wines. This dep, which is watered by the Durance, has an area of 2,480 sq. m. Cap. Digne. Hp. 143,000.

Hauteur. (hō-dar), n. [Fr., from haud, high.] Haughtiness; lofty manner or spirit; pride.

The limits. See Reiv (Haut and Bas).

Hauteut. Rhis. See Reiv (Haut and Bas).

Hauteut. Rhis. See Reiv (Haut and bas).

Hauteut. Rhis. See Reiv (Haut and bas).

In first studied theology, and was for 21 years professor of languages. But mineralogy was his favorite pursuit; and to him science is indebted for an admirable theory of crystallization, founded on geometrical laws. In 1783 he was admitted a member of the Academy of Sciences; and wholy devoting himself to his studies, he long remained a stranger to the revolution and all its horrors. But at length, having refused to take the outh of obedience to the constitution required of the pricets, he was deprived.

esteem which the Emperor showed for this distinguished man was the more honorable, both to him and to Hafly, as the latter had opposed Napoleon's elevation to the imperial dignity, by signing any when the question was proposed for the ratification of the nation. D. 1822. His treatises on mineralogy, crystallography, and natural history are all highly esteemed.

Hatly inite, n. [Named after Hafly, q. v.]. (Min.) A blue, or sometimes greenish, mineral, called also Haflyne, found in rounded grains or crystals, generally in basalt or lava; sp. gr. 24-25. Comp. Silica 32, alumina 27-4, lime 9-9, soda 16-5, sulphuric acid 14-2.

Havan'a, (formerly written Havana, and The Havanana, 189. Hobana, "the harbor."] A large and flourishing commercial city and seaport, cap. of the island and on the W. side of one of the fuest harbors in the world; Lat. 25-8' 15" N., Lon. 82° 22' 45" W. From imposition, which commands both inlets to the Gulf of Mexico, its great strength and excellent port, H. is, in a political point of view, by far the most important maritume station in the West Indies. The entrance to the harbor is narrow, but the water is deep and without obstruction, and within it expands into a magnificent bay, capable of accommodating 1,000 large ships; vessels of the greatest draught of water coming close to the quays. The city lies along the entrance to and on the W. side of the bay, and is strongly fortified by the Moro and Punta castles and by works on every point commanding the city and harbor. The older portion of the city is marked by narrow and dirty streets and by smells the reverse of salubrious, drainage being very imperfertly performed. In the newer sections there are many wide and beautiful avenues, with broad macadamized drives in the center, lined with rows of stately palms and bordered with umbrageous garlens and low, solidly built stone houses of the architecture of southern Spain, with flat roofs, vernadals and barred, unglassed windows, the walls gay with hues of red, blue and yellow and with decorati imperfectly performed. In the newer sections there are present to be a proper to the presence of the presence

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Havan'a, in Ohio, a post-village of Huron co., 23 mfles S. of Sandusky. Pop. (1897) about 500.

Havanna, in Texas, a post village of Hidalgo co., near the Rio Grande river, about 70 miles above Brownsville.

Havancee, a. (Geog.) Of, or belonging to Havans, the canital of Cube.

the Rio Grande river, about 70 miles above Brownsville. 
Havameme', a. (Geog.) Of, or belonging to Havana, the capital of Cuba.

Havameme', n. sing. and pl. (Geog.) A native, or naturalized citizen, or the people collectively, of Havana. 
Have, (Adc.) v. a. (sing. and pp. Hab; ppr. and vb. n. 
HAVING; indic. pres. I have, thou hast, he has; we, ye, they have.) [A. S. habban; L. Ger. and D. habban; han. 
have; Icel. hafu; Swed. hafus; Ger. habar; Lat. 
habère; It. avere: Sp. haber; Fr. avoir: probably allied to Sansk. hu, to seize, to grasp.] To seize and hold; to 
own; to possess; to hold in possession or power.

"The earth hath bubbles, as the water has." — Shaks.

To receive and possess as something which concerns, affects, or belongs to one; to be attended with or united to, as an accident or concomitant.

"He that gathered much had nothing over, and he that ga weed little had no lack." — Brod. xvi. 18.

To hold in opinion; to regard; to esteem.

"The proud have had me greatly in derision." — Pealme. "The proad here had me greatly in derision."—Packee.—To take; to accept; to accept possession of; aa. wilt thou have this woman for thy wedded wife?—To receive possession of; to obtain; hence, to beget, produce, bear, or bring forth, as young; as, they have quite a family of children.—To claim: to exact: to require; to cause to be. "What would three madmen have?" (Dryden.)—To take.—To cause or compel to go; as, he had to retire from the field.—To be impelled by duty; to be urged by necessity or obligation.

or obligation.

We have to strive with a number of heavy prejudices." To act promptly: to conduct one's self, with reference to an end or object:—used reflexively, and frequently with ellipsis of the pronoun.

Ode, epic, elegy, have at ye all." - Buron.

To have on, to wear; to carry on one's person; as, she ad on a velvet dress. — To have a care, to take care; to be cautious; to be on one's guard.

be cautious; to be on one's guard.

"Well, sweet Jeach, Acre a care of thyself."—Shake.

Exav'el, a river of N. Germany, rising in Lake Woblitz, in the S. E. of Mecklenburg-Schwerin, and receiving, in its S.W. course of 162 m., the Spree and Dossa, after which it falls into the Elbe, 6 m. below Havelberg.

Exav'elberg, a city of Prussia, prov. Brandenburg, on an island in the Havel, 72 m. N.W. of Berlin. Manuf.

an island in the liavel, 72 m. N.W. of Berlin. Manuf.
Tobacce, sugar, liquors, &c.
Haw'elock, Sir Henry, E.C.B., a distinguished English general, B. in co. Durham, 1795. He entered the army at an early age, went to India in 1823, and there honorably acquitted himself in the Afghan and Sikh wars. In 1856 he commanded a division of the army which invaded Persia. In 1857, upon the breaking out of the Sepoy mutiny, H. made a forced march from Allahabad to Cawnpore, at the head of a column of 2,000 men, but reached the latter city too late to prevent the hideous massacre which occurred there. After defeating the rebels in three different engagements, H. continued his march toward Lucknow, then belesquered tinued his march toward Lucknow, then beleaguered by a formidable force of mutineers. After victoriously tinued his marcu towaru aucanow, hier occasions by a formidable force of mutineers. After victoriously fighting eight more battles with the enemy, and having his force increased by 500 men. H. fought his way through mas force increased by 500 men, 24. hough his way through the besigning army around Lucknow, and accomplished the relief of its exhausted garrison. For this service he received general rank, was created a baronet, and deco-rated with the cross of the Bath. Sir Henry D, univer-sally regretted, in 1869.

Havelock, n. [From Sir Henry Havelock, q. v.] A light linen covering for protecting the neck and shoulders from the sun, depending from the back of the shake, or forage-cap. (Now generally worn in the European

armice.)

Havelock, in North Curolina, a post-village of Craver
co., about 17 miles S.S.E. of Newbern.

co. about 17 miles S.S.E. of Newbern.

Havelock, in Pennsylvenia, a former post-office of Washington co.

Haven (Ad'en), n. [A. S. ha/en; L. Ger. and D. ha/en; Dau. haen; Ger. ha/en; I.c.l. hi/en; W. ha/n; probably allied to Goth. habun, to hold.] A harbor; a port for ships; a bay, recess, or inlet of the sea, with sufficient depth of water to receive vessels; a station for ships. (See Harbor.)—An asylum; a place of safety; a refuge; a shelter. shelter.

Havemage, m. Harbor-dues. Havemed (kd'vend), a. Secured or sheltered in a

haven.

Havemsport, in Ohio, a village of Fairfield co, about 24 miles S.E. of Columbus.

Havemsville, in Kossos, a post-village of Pottawotomie co, on the Union Pacific R. R.

Haver, s. [O. A. S. kacoro; Ger. kafer.] In the N.

of England. A denomination for cats.—Haver-bread,

oat-cake, oaten bread.

cat-cake, caten bread.

Hav'erford, in Pensylvania, a post-township of Montgomery co., about 10 miles W. of Philadelphia. Haverford College, situated in this township, is an institution of learning under the care of the Society of Friends, founded in 1833, and richly endowed. It pessesses a well-selected library, a chemical laboratory, philosophical apparatus, mineralogical and geological cabinets, and an astronomical observatory.

Haverford-week (W. Halfordd), a town of Pembrokeshire, Eng., on the Cleddau, 8 m. N.E. of Milford, and 270 W.N.W. of London. Pop. (1835) 6,500.

Haverfordill, in Mussuchusett, a manuf. city of Essex co., at the head of navigation of the Merrimac river, on its N. bank, 12 miles from its mouth, and 32 N. of Boston. It is connected by two bridges with Bradford, and is the seat of an active manufacturing industry in iron,

woolens, hats and caps, carriages, soap and candles, tin-ware, leather, boots and shoes, &c. In Feb. 1882, H. was in large part destroyed by fire; loss, over \$2,000,000. Out of over 100 shoe and leather concerns, only three

Out of over 100 shoe and leather concerns, only three escaped destruction. Pop. (1896) 30,185.

—In Minnesota, a township of Olmstead co.—In N. H., a p.-t. and twp., semi-cap. of Grafton co., about 70 m. N.N. W. of Concord.—In Ohio, a post-village of Scioto co., on the Ohio river, about 20 miles above Portamouth.

Hay'erhill Center, in New Hampshirs, a village of

Grafton co.

Haverhill Corner, in New Humpskire, a village of Grafton co., about 65 miles N.W. of Concord.

Hav'ersack, s. [Fr. harre-sac.] A strong, coarse bag, used by soldiers for carrying provisions on a march;—distinguished from knapsuck.—A case used by gunners to carry cartridges from the ammunition chest to the gun.—in the N. of England, a sac or bag for oats or carries. atmeal.

oatment.

Hav'erstraw, in New York a post-village and town-ship of Rockland co., on the Hudson river, about 37 m. N. of New York city. Pop. (1889) 5,170.

Hav'iland Hoilew, in New York a post-village of

Putnam co.

Hav'ilandsville, in Kentucky, a post-village of Har-

rison to:

\*\*Hav'ildar, n. (Mil.) The highest rank to which a
non-commissioned officer can ascend in the native regiments of India and Ceylon; consequently, the rank
is somewhat analogous to that of a sergeant-major in our

Having, s. Possession; cetate; fortune.

"My heving is not much."—Shaks.

Hav'oc, Hav'ock, n. [W. hafog.] Destruction far and wide; ravage; devastation; alaughter.

"As for Saul, he made heroc of the Church." -Acts vill. 3. e. a. To waste; to ravage; to destroy; to lay waste.

-interj. A war-cry, and the signal for indiscriminate slaughter and laying waste.

" Cry Asvock, kings." - Shake.

Hav're, or Le Havre, (formerly Havre De Grace,) a Haw're, or Ls Hâvas, (formerly Havas De Grace,) a fortified town, and the principal seaport on the W. coast of France, dep. Seine-Inférieure, cap. arrond. on the N. bank of the Seine, at its mouth in the English Channel, 42 m. W. of Rouen, and 109 m. W.N. W. of Paris. This town is built on a low alluvial tract of land recovered from the sea, and is divided into unequal parts by its outward port and basins. The town has wide thoroughfares, and is clean and well-built, but presents few architectural features of interest. The port, which is the best and most accessible on the coast, consists of 3 basins separated from each other, and from the outroport, by 4 locks, and is capable of accommodating about 450 ships. Two lighthouses, 50 ft. high, 325 ft. apart, and exhibiting powerful fixed lights, stand on Cape de la Hère, N.N.W. of H., and 320 ft. above sea-level. H. has two roadsteads; the great, or outer, is about a league Hero, N.N.W. of H., and 320 ft. above sea-level. H. has two roadsteads; the great, or outer, is about a league from the port, and the little, or inner roadstead, about half a league. In the former (where large ships always lie) there are from 6 to 7½ fathoms water at ebb; and in the latter, from 3 to 3½. H. being the seaport of Paris, most of the colonial and other products destined for its consumption are imported thither. H. receives 7-10ths of the cotton imported into France, half the sugar and coffee. As respects cotton, H. is to France what Liverpool is to Regland. Manuf. Chomicals, furniture, earthenware, oil, tobacco, rope, &c. Ship-building is also extensively engaged in. Lines of steamers connect H. with the principal English ports, and establish a mail-service between France and N. York. Pop. (1897) about 120,000

lish a mall-service between France and N. York. Pop. (1897) about 120,000.

Havre de Girace (hav'er de-grass), in Maryland, a city of Harford co, on the Susquehanna river, about 36 m. N.E. of Baltimore. It was burned by the British in the war of 1812. Pop. (1897) about 3,400.

Haw, n. [A. S. hag, hag.] A hedge or fence. (See Haw-Raw).— The berry and seed of the hawthorn. (Furriery.) An excressence in the eye of a horse.

Haw, n. [A. S. hāga.] A hesitation or intermission of speech.

sch.
To speak slowly, with frequent intermission and hesitation; to stop in speaking with a haw.

"Don't proce - don't hum and haw." - Chesterfield. To turn towards the driver: - said of a horse, or team of horses; — most frequently in the imperative; as, haw here! haw up! &c., — words used by wagoners

as, haw here! haw up | sc., —words used by wagoners and teamsters.

Haw, in Missouri, a P. O. of Mercer co.

Hawail, Hawailan Archipelago, &c. See Hawaii in Section II, also Sanowich Islands.

Hawarden (hard's), a town of England, in Flintshire, 7 miles W. of Chester. It has considerable potteries. Pop. (1897) 8.836.

Haw Creek, in Illinois, a township of Knox co.

Haw Creek, in Indiana, a township of Bartholomew co.

Co.

Haw Creek, in Missouri, a post-office of Pike co., about 12 m. N. of Bowling Green.

Hawesville (haux'sil), in Kenncky, a city, cap. of Hancock co., on the Ohlo river, about 124 miles below Louisville. Pop. (1890) 1.013.

Haw'field, in North Carolino, a village of Orange co., about 45 miles W. of Raleigh.

Haw'fineth, n. (Ornith) The Grossbeak (q. v.).

Haw-haw, n. [Duplication of haw, a hedge.] Same as Ha-Ha (q. v.). as Ha-HA (q. v.).

—a. Consequential or affected in mein or manner; as a hau-hau kind of man. (Colloq.)

Hawick (how'ik), a town of Roxburghshire, Scotland,

at the confluence of the Teviot and Slitterig, 10 m. 8 W of Jedburgh, and 53 S.E. of Edinburgh. Manuf. Tweeda,

of Jedburgh, and 83 8.E. of Edinburgh. Manuf. Twe-La, hosiery, yaras, and gloves.

Haw Ying. n. Speaking with a haw, or with affectation or hesitation; as, humming and hawing.

Hawks, n. [A.S. hafoe; D. hawk; Icel. hawk; Finn. haucha; Swed. hik; W. heboy; Ar. sahr; Sansk. hu, so exize, to carry off.] (Zoll.) A name indiscriminately applied to many birds of the Falcon family (Falconide), — indeed, to almost any bird of prey which is not a vulture, an eagle, or an owl. The teak of the Hawks resembles that of the Falcons (Falconide) in its general form, being curved from the base; but the wings are shorter, and want the pointed tips which are characteristic of that division of the family. The most powerful hawks are found in cold countries, inhabiting hilly districts where there are woods, and seeking their prey near the ground. Among the whole, none is more near the ground. Among the whole, none is more and pertinacious in pursuit of its prey than the row-hawk (Fig. 19). The other most important Sparrow-hawk (Fig. 19). The other most important species will be found under their respective names. (Her.) A charge that may be belled, jessed, and vor-relled. The hand's bell itself used as a separate charge,

is attached to the leg of the bird by jesses or thongs of leather. Variets are rings attached to the end of the jesses. The hand's lure, also an heraldic charge, consists of two





Fig. 1258. -- HAWKS.

wings, joined with Fig. 1253. — HAWES. a line, to the end of which is attached a ring. The line is sometimes nowed or knotted.

Hawk, v. s. (Sports.) To catch, or endeavor to catch birds by means of hawks trained for the purpose, and let loose on the prey; to practise falconry, or Hawk-

ING, q.v.To fly and strike at; to attack on the wing; — preced-

ing al.
"A falcon . . . was by a mousing owl hawk'd at and kill'd." Shake.

"A falone ... was by a mousing owl hand of and hilld." Shake.

- [W. hochi; Dan. harke; Scot. hangh; formed from the sound.] To make an effort to force up phlegm with a noisy retching.

Hawk, v. a. [W. hwee, a cry, a scream; Armor. ioucha, to cry aloud; Fr. hucher, to halloo after one; L. Lat. hucha, an auction.] To offer for sale by public vendue; to sell by outcry in the street; to carry about wares for sale from place to place; to peddle; as, to hawk fish, to hawk books, &c.

Hawke, n. (Masonry.) A small square board with a

hawk books, &c.

Hawk, n. (Masonry.) A small square board with a handle on the under side, to hold mortar.

Hawk'-boy, n. A boy who attends a brick-layer or plasterer, to supply him with mortar.

Hawke Bay, an arm of the Atlantic Ocean, on the E. coast of Labrador, abt. Lat. 85° N.

Hawked, p. a. Crooked; curving like a hawk's bill; as, a hawked nose.

Hawk'er, n. One who hawks, or offers goods for sale by outcry in the street; a huckster; a peddler; as, a hawker of songs. "I saw my labors. . . bawled about by common Assokers." - Swift

-[A.S. hafecere.] A falconer.

Hawkesbury, (hawke'ber-e.) a village of Prescott co., prov. of Ontario, on the Ottawa river, about 60 m. E. of Montreal. Pop. (1887) about 2,100.

Hawkesbury Island, an island of British North America, on the Pacific coast, Lat. 53° 30' N., Lon. 129° W. Hawkey a. (Green) See Hoorer.

Hawkes bury measure, at Lat. 83° 30' N., Lon. 129° W.
America, on the Pacific coast, Lat. 83° 30' N., Lon. 129° W.
Hawk Eye, in lowe, a village of Des Moines co.
Hawk Eye, in lowe, a village of Des Moines co.
Hawk Eye, a. Having a keen, penetrating eye;
possessing acute powers of vision; discerning.
Hawk King, n. (Sports.) The art or practice of training and flying hawks, in order to take other birds. The
practice of teaching one bird to fly at and catch another
is frequently called fulconry, and is of high antiquity.
Among the Asiatics the sport seems to have been practised from the earliest period; and in the time of Ctesias,
foxes and hares were hunted in India by means of rapacious birds. It is not certain, but very probable, that
the ancient Greeks used hawks and other birds of prey
in hunting and fowling. From the Rast the art gradipacious birds. It is not certain, but very probable, that the ancient Greeks used hawks and other birds of prey in hunting and fowling. From the East the art gradually spread over Europe, and, although scarcely known to the Romans in the days of Vespasian, was practised with enthusiasm by the ancient Britons, who maintained a considerable number of birds for the sport. In the Middle Ages, and till the end of the 17th cent, H. was a favorite amusement in W. Europe. A person of rank scarcely stirred out of doors without his hawk on his hand; and in old paintings and seals this is the criterion of nobility. In the Bayeux tapestry, Harold, when setting out on a most important embassy to Normandy, is represented with a bird on his hand and a dog under his arm. In olden times this diversion was the favorite amusement of all ranks of men; and while it was the privilege of the poor, was the privilege of the rich. The expenses of the sport were sometimes very great. Sir Thomas Monson, in the reign of James I. is said to have given \$5,000 for a cast of hawks. The laws with regard to the protection of the birds were also very rigorous. To stead a hawk was a felony; and to take its eggs was, even in a person's own ground, punishable with imprisonment for a year and a day, beddee a fine at the pleasure of the lord or king. The sport of H. was so universally popular in the 16th cent, that a certain quality of hawk was apportioned to every one, according to his station in life. Thus the eagle or rulling was given to the emperor, the gerfalcon to the king, the falons genetic, or the trock-falcon to the duke, the peregrine falcon to the sarl, the bastard

U

Hawlbow'line, or Haulbowline, an island of Ireland the lammaret to the esquire, the merlin to the lady, the hobby to the young man, the poshawk to the year content to the poor man, the sparnow-hawk to the priest, the music to the holy-water clerk, and the priest, the music to the holy-water clerk, and the kestrel to the knave or servant. The birds most generally used in H. were the peregrine falcon and the generally used in H. were the peregrine falcon and the generally used in H. were the peregrine falcon and the generally used in H. were the peregrine falcon and the general to their plumage being dusky red in color. When over a year old, hawks were styled red hawls, on account of their plumage being dusky red in color. When over a year old, the hawk was styled a happard. Although H., as an exercise, has now gone mearly out of use, several of the terms employed still hold their place in the language. Every part of the hawk has its distinct name. The legs, from the thigh to the foot, are called arms; the toes, the petty ringles; the claws, the pounces; the wings, the sails. The crop is called the garge; the village in the law River, in North Carolina, isses in Rockingham co., along the dowing a general 8.E. course through Guilford and Alamance cos., joins the Deep river in Chatham co. to form the Cape; the yellow part between the beak and eyes, the cere, and the small holes in it the sares. The furniture, the leathers, with bells fastened ally used in H. were the perecrine falcon and the gerfalcon. When under a year old, hawks were styled red haws, on account of their plumage being dusky red in color. When over a year old, the hawk was styled a happard. Aithough H., as an exercise, has now gone nearly out of use, several of the terms employed still hold their place in the language. Every part of the hawk has its distinct name. The legs, from the thigh to the foot, are called arms; the toes, the petty singles; the claws, the pounces; the wings, the sails. The cop is called the garge; the upper part of the bill, the beak, the lower part, the clap; the yellow part between the beak and eyes, the cere, and the small holes in it the scares. The furniture, the leathers, with bells fastened



Fig. 1254. - JAMES I. OF ENGLAND IN HAWKING COSTUME. (1608-1625.)

en the legs, are called bewits: the leathern thong by which the hawk is held is called the leash, and the little straps fastening them to the legs, the jesses. A head covering, in order to keep the bird in the dark, is called a hood; and to draw the strings, so that the hood may be in readiness to be pulled off, is called unstriking the hood. The lars is a figure or resemblance of a fowl made of leather and feathers, and the resting-place when the hawk is off the falconer's hand, the perch. Many of the particular actions of the hawk are also described by distinct terms. When the bird flutters on the hand or perch, it is said to bate; when, standing too near, hawks fight with each other, it is called crabbing; when the young ones quiver in obedience to the elder, it is called covering. The selsure of its proy by a hawk is called binding; when it pulls off the feathers, it is said to plame; when it forsakes the proper game, and files at maxpies, crows, &c., it is called cheke. The fowl or game flown at is called the quarry, and the dead body of a fowl killed by the hawk, the pelt. The making of a hawk tame and gentle is called reclaiming; the bringing one to endure company, manning; and a hawk well enough trained to set an example to a young one is called a make-bank. George, Karl of Orford, tried to revive H. in the latter part of the 18th cent.; and, in Yorkshire, England, Colonel Thompson had a H. establishment at a later period. As a general diversion, however, the sport has entirely gone out, although now and then occasional attempts have been made to revive it. In Sir Walter Scott's novels there are some very graphic and interesting descriptions of this favorite sport.

Haw'kima, in Tensesse, a N.E. co., adjoining Virginia. Area, about 450 sq. m. Birers. Holston river, and numerous smaller streams. Surface, much diversified; soil, generally fertile. Cap. Rogerwille. Pop. (1890) 22,246.

Haw'kima, in Tensesse, and of this favorite aport.

Haw'kima, in Tensesse, and of the proper solutions.

Hawk'emaile, in G

HAYD

Haw River, in North Carolina, a post-village of Alamance co.

Hawse, n. [A. S. hals, the neck.] (Naut.) The portion of sea immediately in front of a ship's bows, and extending from an imaginary line rising from her anchors. The cables pass through the hawscholes, q. v. When a ship has two anchors down, and the cables diverge from each other, the H. is said to be clear; when crossed by the ship turning half round, there is a cross in the H.; another cross makes an elbow, then a round-turn; in the last two cases the H. is said to be foul. The process of disengaging the cables is called clearing hawse. The danger of a foul H is, that if it comes on to blow, the cables cannot be veered from their friction against each other.—Freshraing hawse, is veering out a little cable to expose a new surface to the friction in the hawse-hole, or across the cut-water.—Albocat-hause, implies across the bows of a vessel at anchor.

Hawse-blocks, Hawse-plug, n. (Naut.) A block or stopper for a hawse-hole.

Hawse-holes, Hawse-plus, n. pl. (Naut.) Holes made in the bows of a ship, and in the hawse-piece outside, through which the cables pass.

Hawse-pleces, n. pl. (Naut.) The timbers in the bow of a ship, whose sides are nearly parallel to the middle line.

bow of a sh middle line.

bow of a ship, whose sides are nearly parallel to the middle line.

Haw'ser, n. [See Halstr.] (Naul.) A small cable; a large rope used in warping ships, &c.

Haw'ses, n. pl. (Naul.) Same as Hawse-holes, q. v.

Haw'sheen, Hay'sheers, n. [A S. hagthorn.] (Bol.) Same as Whitethorn. See Cratzous.

Haw'theers, Hay'sheers, n. [A S. hagthorn.] (Bol.) Same as Whitethorn. See Cratzous.

Haw'theers, Nathaniel, a distinguished American novelist, E at Salem, Mass., 1804. He was educated at Bowdon College, Maine, where he had among his fellow-students the poet Longfellow and Franklin Pierce, afterwards president of the United States. Leading for a time a sequestered dreamy life, he first appeared as a writer, but anonymously, in 1832. Five years later he published his Twice-told Tales, and in 1838 he secepted an appointment in the Custom-House at Boston, which he held for three years. In 1846 he was appointed surveyor in the Custom-House at Salem, but was removed on a change of administration in the following year. From 1833 to 1857 he filled the post of American consul at Liverpool, to which he was appointed by his early friend President Pierce. After travelling on the continent of Europe, he returned to America. His principal works are, The Scarlet Letter; The House of the Neven Gables; The Bithedule Romance, founded on reminiscences of his life at Brook Farm; The Martle Funn; Gables: The Bithedule Romance, founded on reminiscences of his life at Brook Farm; The Marble Frun; Life of Persident Pierce; and Our Old Home, a volume of charming delineation of the characteristic scenery of England, and of strangely-contrasted ungenial criticism on the English people. H., though a proce-writer only, is in spirit a poet. Intense love, and minute observation, and painstaking delineation of nature; glowing passion, great powers of mental analysis, vivid imagination, pure moral sentiment, and an exquisitely simple, clear, and delicate style. These are the admitted characteristics of his works. D. 1864.

Haw theore. Ty, n. A kind of fly.

Hay, n. [A.S. heg, hig; Dan. hoi; Ger. heu; Swed. ho; Icel. hey; Dan. hoi; W. Fris. hay. The A.S. is from heaven = Gr. hauen, to cut.] Grass cut and dried for fodder: grass prepared for preservation.

"Make hay while the sun shines."—Camden.

" Make hay while the sun shines." — Came

To dance the hay, to dance in a ring or circle.

-v. n. [Ger. heuen.] To make into hay; to dry or cure, as grass for preservation.

Hay, n. [A.S. hig; Fr. haie] A net set around the haunt or burrow of an animal.

" Coneys are destroyed by hays." - Morti

To net rabbits.

-r. n. To net rabbits.

Hay'-band, n. A band or cord of twisted hay.

Hay'-bird, n. (Zol.) The Spotted Fly-catcher, an European bird of the family Muscicapids.

Hay'-cock, n. A conical mass, heap, or pile of hay, raked together from the mow on the field.

Hay'cock, in Pennylvania, a township of Bucks

co.

Hay'denite, n. (Min.) A yellowish variety of Chabazite, q. r., from Jones' Falls, near Baltimore.

Hay'den Row, in Mussachusetts, a post-village of Middlesex co. Pop. (1897) about 550.

Hay'dentown, in Pensylvania, a post-village of Fayette co., shout 180 m. W. by S. of Harrisburg.

Hay'denville, in Ohio, a post-village of Hocking co., on C., A. V. & T. R.R. Pop. (1897) about 500.

Hay'denville, in Mussachusetts, a post-village of Hampshire co., about 4 m. N. W. of Northampton.

Hay'dn (hd'ds), Joseph, an eminent musician, was born in 1732, in the village of Rohrou, on the borders of Hun-

gary and Austria. He was the son of a poor wheelwright, who, having a taste for music, played the harp on Sundays, his mother accompanying with her voice— a circumstance which accounts for the strong predilec a circumstance which accounts for the strong preditection which their son showed for the science even in his infancy. When but 8 years old, he became a chorister in 8t. Stephen's, Vienna, and at 10 years of age compased pieces for several voices. With his fine seprano he ket his place, and his situation was very discouraging; but he had the good fortune to become acquainted with Prince Esterhazy, who placed him at the head of his private chapel. For this prince he composed some beautiful symphonies—a department in which he excelled all other composers—and the greatest part of his fine quartets. When after a period of above 20 years, the prince reduced his court, and H. received his discharge, he accepted an engagement to take part in some concerts in reduced his court, and H received his discharge, he accepted an engagement to take part in some concerts in London, composing and superintending the performances. In 1794, having made a second journey thither, he found a most splendid reception, and the university of Oxford conferred upon him the degree of doctor of music. It was during these visits to England that H composed his Twolve Grand Symphonics. On his return from England, he purchased a small house and garden in one of the suburbs of Vienna, where he died. To the English public he is universally known by his noble foratorio of the Creation, first published in 1798, which is considered a chef-dicurre. Among his numerous works are, the Susons, an oratorio; also, a Te Deum, a Stabat-Mater, with many concerts, marches, masses, &c. He was inexhaustible in invention and execution—alternation and execution—alternation in the suburbane of surprising and satisfy-ways new and original—ever surprising and satisfy-

works are, The Scatons, an oratorio; also, a Tr Deam's Sabat-Mater, with many concerts, marches, masses, at the was inexhaustible in invention and execution—always new and original—ever surprising and satisfying his euraptured hearers. D. 1809.

Hay'dom, Benjamin Robert, e.a., an eminent English historical painter, s. 1756. He was a devoted apostle of what is called high art, and produced many pictures of extraordinary merit; among them we may refer to the Judgment of Solomon; Christ's Entry into Jerusalem, (now in the U. States); The Rating of Lucarus, (in the Puntheon; The Mack Election in the Ang's Bench, (belonging to Queen Victoria;) Nopoleon at S. Helena, (painted for Sir R. Peel;) Alexander and Bucephalus, (in Lord Egremont's collection:) Alfred and the Angles Bench, (belonging to Gueen Victoria;) Nopoleon at S. Helena, (painted for Sir R. Peel;) Alexander and Bucephalus, (in Lord Egremont's collection:) Alfred and the Angles Bench, (belonging to Gueen Victoria;) Nopoleon at S. Helena, (painted on Sir R. Peel;) Alexander and Bucephalus, (in Lord Egremont's collection:) Alfred and the Challes of Parliament; but being defeated, his mind became deranged, and he committed suicide in 1846.

Hay'dom, in Nebraska, a post-office of Phillips co. Hayes, in Alabama, a pust-office of Tucalcosa co. Hayes, in Alabama, a pust-office of Ransom co. Hayes, in Alabama, a pust-office of Ransom co. Hayes, in North Dukota, a post-office of Ransom co. Hayes, in North Dukota, a post-office of Ransom co. Hayes, in North Dukota, a post-office of Ransom co. Hayes, in North Dukota, a post-office of Ransom co. Hayes wille, or Haysula, in Ohio, a post-village of British N. America, rainin near Lake Winnippe, and flowing N.E. through lakes Holy, Knee, and Swampy, enters James Bay at York. Length, about 300 m. Hayes'ville, or Haysvilla, no Ohio, a post-village of Chester co., about 50 m. N.W. of Meadville.

Hayes'ville, or Harsvilla, in Ohio, a post-village of Chester co., about 50 m. N.W. of Meadville.

Hayes'edd, in Pirpinia, a post-

ra are in full flower. Dry weather, and if possible that in which sunshine prevails, is chosen for this operation; then the mown material is spread out, and turned over two or three times; and in the evening they are formed into heaps somewhat larger than they were the day be fore. If the weather has been remarkably warm and dry, these heaps in the course of the third day are carted away and made into a stack; but if the weather has been indifferent, the process of opening out the heaps and exposing them to the sun is repeated on the third day, and stacking is not commenced till the fourth. The grand object in making hay is to preserve the color and natural juices of the heriage, which is best done by continually turning or tedding it, so as never to expose the same surface for any length of time to the direct influence of the sun. In stacking the hay, the object is to preserve this green color, and at the same time induce a slight degree of fermentation, which has the effect of rendering the fibres of the plants composing the hay more tender, and changing a part of the parenchymous matter into sugar. This awest taste renders the hay more palatable to horses.

Hay market, in Virginia, a post-village of Prince William co. about 10 m. N. N. of Richmond.

Hay meadow, in N. Carodina. a P. O. of Wilkes co. Hay mond, in Indiana. a post-village of Franklin co., about 10 m. S.W. of Brookville.

Hay-mond, in Indiana. a post-village of Franklin co., about 10 m. S.W. of Brookville.

about 10 m. S.W. of Brookville.

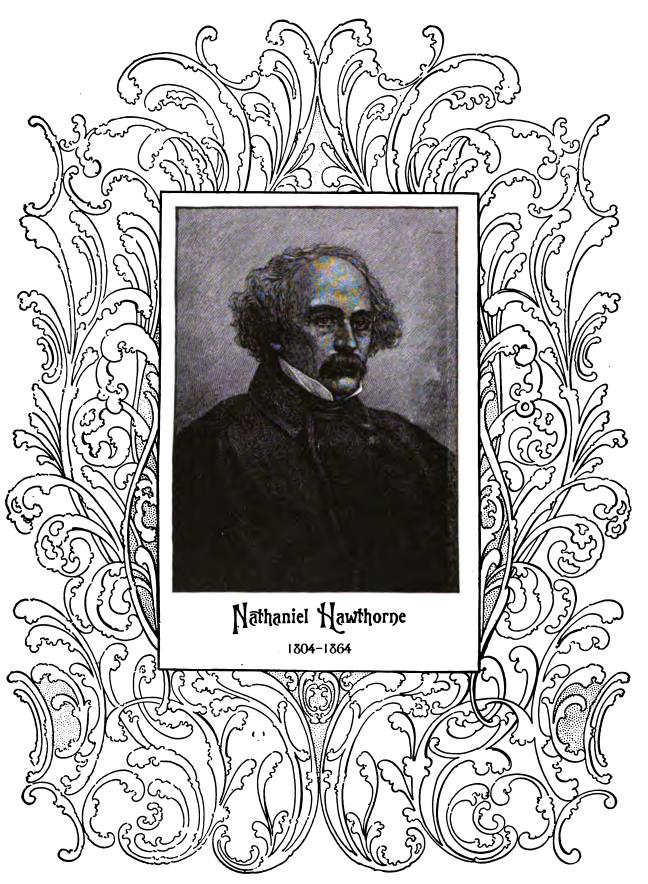
Hay'-mow, n. A mass or heap of hay stored in a bara or loft for preservation.

Hay'-rick, n. Same as HAY-STACK, q.v.

Hayne, Isaac, a colonel in the American army, and a narrtyr to the cause of Independence, n. 1745, was descended from a highly respectable family in S. Carolina.

After the capitulation of Charleston, he was compelled to subscribe a declaration of his allegiance, to the king

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of Great Britain, provided he might not be ordered to bear arms against his countrymen. He was summoned, however, after the success of Greene had changed the face of affairs, to repair immediately to the British standard. This he refused as a violation of the compact he had entered into, and hastened to the American camp. Being shortly after taken prisoner by the English, he was tried, and condemned to be hanged, "for having been found under arms, and employed in raising a regiment to oppose the British government, though he

having been found under arms, and employed in raising a regiment to oppose the British government, though he had become a subject, and accepted the protection of that government." This cruel sentence was put into execution, Aug. 4, 1781.

Hayme, Paul Hamilton, editor and poet, was born in Charleston, S. C., 1830. Educated in his native city, he became editor of the South. Let. Gazetie (1852), of the Constantionalist (1863), and of Southern Opinion (1867), in 1872 appeared his Legends and Lyrics, and in 1873 he edited the Poems of Henry Timred. Died July 6, 1886.

Haymersville, in New York, a post-village of Renselaer co., about 8 m. E.N.E. of Troy.

Haymes, in Tensesse, a post-office of Union co.

Haymes'ville, in Maine, a post-township of Aroostook co.

took co.

Hayne'ville, in Alabama, a post-village, capital of

Hays, in Teras, a S.W. central co.; area, about 680 sq. m. Rivers. Pedernales and San Marcos. Surface, undulating; soil, fertile. Cap. San Marcos. Pop. (1890) 11,352.

Hay'stack, s. A stack, or conical pile of hay in the open air, laid up for safe-keeping; a hay-rick.



Fig. 1255.—HAY-STACK.

Hay'stack, in N. Carolina, a post-village of Surrey co. Hays'ville, in Indiana, a post-village of Dubois co., about 115 m. S.S.W. of Iudianapolis.

Hays'ville, in Kansas, a post-office of Sedgwick co. Haysville, in Kensacky, a village of Marion.

Haysville, in Kensacky, a village of Marion.

Haysville, in Pennylecana, a post-village of Allegheny co., on the Ohio river, 9 m. below Pittsburg.

Hay'thern, n. See Hawhorn.

Hay'thern, n. See Hawhorn.

Hay'thern, n. See Hawhorn.

Hay'th, Hal'ti. [Carib., the mountainous country.] The original and now revived name of one of the W. India islands, being, next to Cuba, the largest of the Greater Antilles. Columbus gave it the name of Hispaniola (little Spain), and it was frequently also called San Domingo, from the city of that name on its S.E. coast. The French bestowed on it the deserved epithet of La Reine des Antilles. It lies between Lat. 17° 40° and 19° 38° N., and Lon. 68° 24° and 74° 35° W.; having N. the Atlantic, S. the Mona Passesge, separating it from Porto Rico (from which it is 76 m. distant), S. the Caribbean See, and W. the Windward Passesge, which lies between it and Cuba and Jamaica, its N.W. point being 48 m. E. of the former, and its S.W. 112 m. E. of the latter. Its shape is somewhat triangular, the apex directed E.; but it has several considerable penineulas and promontories, which render its outline very irregular. Greatest length, W. to E., about 400 m.; its breadth varies from 40 m. near its E. extremity, to 156 m. about its centre. The island is divided into two states; the first, the REFUBLIC OF HAYII, having an area of 10,990 eq. m. and the other, known as the REFUBLIC OF SAN DOMINOO, with an area of 17,010 eq. m.—Phys. Geog. The surface of H. is, as its name implies, generally mountainous; but there are some extensive plains, especially in the E., or San Domingo. The mountain system is complicated, and it is difficult to give a clear idea of it without the aid of a map. A great mountain knot, the Cibao, occupies the centre of the country, fro

chiefly of wide savannas, used for pasture lands. N. of it, enclosed between two mountain ranges, is the more productive plain of Vega Reale, li\*tle inferior in size to the foregoing. In the W. half of the island are the large plains of Artibonite and the Cul-de-Sac. The last-part of the plain of the size of the real plains of the size of th large plains of Artibonite and the Cui-de-Sac. The last-named, E. of Port-au-Prince, is from 30 to 40 m. long, by about 9 broad, and was formerly one entire sugar-garden, though now almost wholly waste. H. is in most parts profusely watered; it has numerous rivers, the largest being the Yague, Yuna, Nieve, and Artibonite, which disembogue on the N., E., S., and W. coasts respectively. These are navigable for great part of their course; they are generally deep, and with tolerably wide mouths. Three lakes of considerable size exist at no great dis-tance from the S. coast of Henriquillo; the largest is about 50 m. in circuit, and has salt-water, while the ad-jacent lake of Azney is fresh.— Tim. The climate of the lowlands is very unhealthy to Europeans and N. the lowlands is very unhealthy to Europeans and N. Americans. The excessive heats of the plains are, how-Americans. The excessive heats of the plains are, however, tempered by fresh sea-breezer at night. The temperature of course decreases with the elevation, and in the mountains the cold is often piercing. The year, as elsewhere between the tropics, is divided between the wet and dry seasons. The change of the seasons is accompanied by tempestuous weather; but hurricanes are not so frequent as in most of the other Antilles; nor are earthquakes common, though in 1770 a convulsion of that kind destroyed the town of Port-au-Prince.—Geol., Min., dec. Little is known of the geology of this island. A limestone somewhat analogous to that of Cuba, containing vestiges of marine shells, is a prevalent formation. H. produces gold, silver, copper, tin, iron God., Min. &c. Little is known of the geology of this island. A limestone somewhat analogous to that of Cuba, containing vestiges of marine shells, is a prevalent formation. H. produces gold, silver, copper, tin, iron of good quality, and rock-salt. The principal coppermine yields an ore containing a considerable admixture of gold, and the sands of many of the rivers contain a good deal of gold-dust, small quantities of which are collected. The working of gold-nines has, however, entirely ceased.—Soil and Fegel. The soil is almost universally a deep vegetable mould, the fertility of which is careely equalled. The mountains, even to their summits, are, according to Mackensle, capable of cultivation. The greater part of the island is covered with dense forests of malogany, logwood, iron-wood, cedars, and other large and useful trees, or an impenetable underwood. The plantain, vanilia, potato, manioc, &c., are indigenous, as is the paimetto, or cabbage-tree. The latter is truly the prop of the Haytian, who eats the upper portion of it, builds and covers his house with its various parts, and fashions his furniture out of fits trunk.—Zoil. Of several kinds of quadrapeds found by the first European settlers, the apout is the only one remaining. Parrots and other birds of brilliant plumage, and water-fowl, are very abundant; the alligator, cayman, iguana, turties, &c., abound in the larger rivers; several kinds of serpents are met with; and the crustocea and testacea afford a plet tiful supply of food to the inhabitants of the coasts.—Prod. and Agric. Resources. Under the Freuch regime, this island was cultivated with the greatest care, which was more than amply repaid by magnificent yields of produce. The growth of sugar engaged the largest share of attention, the immense capability of the soil making the average produce about 2,712 lbs. an acre, or nearly two thirds more than the general yield of the land in canes in Jamaica. The coffee-plantations were also exceedingly productive; and those of cotton, indigo, and c One of the first effects of the revolution of 1800-3, which abolished negro slavery, was an elormous decrease in the amount of agricultural produce. Toussaint l'Overture (q, v), however, by an enforced system of labor, partially remedied this state of things, an example followed by his successors, Dessalines and Christophe. After the accession of Pétion, however, Lgricultural activity ceased, the inherent idleness of the negro was allowed full scope, and the productive economy of the island settled into a semi-barbarous and deplorable condition. What is wanted to restore to this fine island its former commercial and industrial prosperitz, is emphatically a What is wanted to rectore to this fine island its former commercial and industrial prosperity, is emphatically a strong and civilized governing power.—Com. The foreign trade of H is entirely in the hands of American and European merchants, toward whom, however, the most restrictive policy is adopted. The coasting trade, on the other hand, wholly belongs to liaytian citizens. The interior is usually supplied with imported goods by means of hucksters, generally females, who act as agents for the foreign merchants, with whom they balance accounts weekly. Beasts of burden are commonly used for the conveyance of goods, the roads, except in the N.W., being generally bad, and carriages few. The principal articles of export from H are the agricultural products of the island, of which coffee is the most important. Other products are cocoa, cotton, toosaco, &c. products of the Island, of which coffee is the most important. Other products are cocoa, cotton, tooacco, &co, while the forests yield mahogany, logwood, and other cabinet timbers, which form part of the exports. To these may be added hides, fusite, wax, honey, fruits, and orange-peel. The total value of exports in 1891 was \$12,400,000; of importa, about \$14,200,000. Of the latter about \$5,000,000 came from the U. S., consisting of provisions, dry goods, lumber, ready-made clothing, soaps, perfumeries, &c. H. entered the Postal Union in 1881. Seven lines of steamers visit Port-au-Prince, the Atlas Line often carrying 8,000 boxes of oranges and 5,000 bunches of bananas on a trip. A national bank exists at Port-au-Prince, with branches at the seven open ports

HAYT

of the republic, and with a cash capital of \$2,000,000.

Gové. The executive of the Haytian government is formed of a president and 5 ministerial bureaux, viz.,—
1. Foreign Affairs, Justice, and Public Instruction; 2. Finance and Commerce; 3. Interior and Agriculture; 4. General Police; and, 5. War and Marine. The legislative power rests in a Senate and Chamber of Representatives. The president, who must be 35 years of age at the time of his election, holds his office for life, commands the army and navy, makes war, peace, and treaties, subject to the sanction of the Senate, and appoints all public functionaries, &c. The Senate consists of 36 members, above 30 years of age, each chosen by the Chamber of Representatives from lists furnished by the president. The Senate sits 9 years; and its previous members are reeligible after a lapse of 3 years. The Chamber of Representatives consists of 50 members, chosen every 5 years by the electoral colleges of the respective communes. Its members must be 25 years of age; and each receives \$200 a month, besides \$1 per league for travelling expenses. The session of the Chambers is limited to 3 months annually. The High Court of Justice, composed of 15 judges, has jurisdiction over all charges preferred by the legislative bodies against their own members, or against the high state functionaries. There is no appeal from its decision; but the accused has the privilege of rejecting two thirds of his judges. There are 8 provincial, civil, and criminal courts. The legal code is a modification of the Prench colonial laws. St. Domingo is governed by a president, under whom is a vice-president and a cabinet of 4 ministers, viz., of Justice, Foreign Affairs and Agriculture, War, and Finances and Commerce. It has, like Hayti, a Senate and Chamber of Representatives, and a similar constitution.— Religions. The Roman Catholic is the established religion; but all other sects are tolerated both in H. and San Domingo.—Fisances. Civil wars and the struggles between H. and San Domingo have l Columbus, Dec. 5, 1495, at which time it is said to have been divided into 5 states. Having taken possession of it in the name of 8 pain, Columbus founded the town of La Isabella on the N. coast, and established in it, under his brother Diego, the first colony founded by Europeans in the New World. The city of 8t. Domingo, which subsequently gave its name to the entire island, was founded in 1498. The aboriginal inhabitants were soon eradicated; and their place was at first very inadequately supplied by Indians forcibly carried off from the Bahama Islands, and adventurers from 8pain and other European countries, and in the following century by the importation of vast numbers of negroes from Africa. The 8panlards retained possession of the whole island till 1665, when the French obtained a footing on its W. coast, and laid the foundation of that colony which afterwards became so flourishing. In 1690 Spain Africa. The Spaniards retained possession of the whole island till 1866, when the French obtained a footing on its W. coast, and laid the foundation of that colony which afterwards became so flourishing. In 1891 Spain coded to France half of the island, and, in 1776, the possessions of the latter were still further angmented. It was not, however, till 1722, that the French part of the island end, in 1776, the possessions of the latter were still further angmented. It was not, however, till 1722, that the French part of the island began rapidly to advance to wealth and population. From 1776 to 1789 the colony had attained the same of its prosperity; and its produce and commerce were then equal or superior to those of all the other W. India islands. Unhappily, however, this prosperity was as brief as it was signal; and the ruin that has overwhelmed the island may be said to be complete. To attempt to give any intelligible sketch, how slight soever, of the events by which this destruction was brought about, and by which the negroes of H. emancipated themselves from the dominion of the whites, and founded an independent state, would far exceed our limits. At the time of the French revolution, the negroe element in the French part of St. Domingo were estimated at about 500,000. That a good deal of dissatisfaction existed among them is certain; but there was no disposition to revolt, and the rash and injudicious proceedings of the mother country, the debates and cruel administration of the colonial govt., and the deeproted animostities of the whites and mulatices, were the prominent causes of the revolution. The proscriptions, ruin, bloodshed, and atrocities by which it was accompanied and brought about, are, perhaps, hardly to be paralleled. In 1800 H. was proclaimed independent; and its independence was consolidated by the final expulsion of the French in 1803. This was effected by Dessalines (p. v.), who crected the French or W. part of the island into an empire, of which he became emperor, with the title of James

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Hayti, and formed itself into a separate republic, electing Gen. Santana president in 1844. The next change was into that of an empire, President Soulouque (g. c.) Hayti, and formed itself into a separate reputic, electing Gen. Santana president in 1844. The next change was into that of an empire, President Soulouque (c. r.) assuming the title of Emperor Faustin I. in 1849. Forced to abdicate in 1858, H became once more a republic under the presidency of Fabre Geffrard, in 1850; while the state of San Domingo gave itself up to Spain in 1861. In Sept., 1863, however, the Dominicans rose in insurrection, expelled the Spanish authorities, and again proclaimed a republic, this time under the presidency of Col. Palengo. In 1867, an insurrection broke out in Hayti, under Gen. Salnave, and in March of the same year, President Geffrard resigned office, being succeeded by Salnave, who was elected for a term of 4 years in the following June. In Nov., however, he, in his turn, had to encounter an insurrectionary crisis, and three rival presidents divided the island; Gen. Domingue in the S., and Gen. Nissage Saget in the N., while Salnave had command of Port-au-Prince (the cap.) and the centre. After a sanguinary civil war lasting over twelve months, Salnave succeeded, in 1869, in over-throwing his opponents, only to be himself overthrown in Jan., 1870, by a fresh insurrection headed by General Saget, which succeeded in capturing his last stronghold, together with himself, who, after an impromptu trial, was summarily shot. Saget was proclaimed president in the following March. Events in San Domingo during these years showed but little improvement over Hayti; after a three months' lease of power, Palengo was supplanted, in June, 1885, by Gen. Pimentel, who was himself in Aug. forced to make way for Gen. Cabral, who was, in turn, succeeded, in Dec., by Gen. Buenventura Baez. In 1883, a revolt broke out against his authority, and Laperon was proclaimed president by the insurgents, who, however, were eventually crunshed out. In Feb., 1870, a treaty was entered into between the U. States and Dominican govta.. and a special envoy was dipatched by the latter to offer to the U. States a leas Feb., 1870, a treaty was entered into between the U. States and Dominican govts., and a special envoy was dispatched by the latter to offer to the U. States a lease of the Bay of Samana, on the E. coast of the Dominican territory. This proposition was subsequently rejected by the U. S. Under Hippolyte (1889-96) the condition of Hayti improved; he was succeeded (1896) by Gen. Sam. In the same year Gen. Hereaux became president of the Dominican Ranuldic

HAZA

county.

Hay'wood, or Hayward's, formerly San Lorenzo, in

Hay'wood, or HAYWARD's, formerly SAN LORENZO, in California, a post-village of Alameda co., about 20 m. E. S.E. of San Francisco. Pop. (1897) about 1,580.

Haywood, in North Carolina, a W. county, adjoining Tennessee; area, about 590 sq. m. Rirers. Big Pigeon river and some smaller streams. Surface, diversified, the Iron or Great Smoky Mountains bounding it on the N.W.; soil, generally fertile. Cap. Waynesville. Pop. (1890) 13,346.

(1890) 13,040.

A post-village of Chatham co., 31 m. W.N.W. of Raleigh.

Hay wood, in Temessee, a W. county; area, about 570
sq. m. Rivers. Hatchee and the S. Fork of Forked Door river. Surface, level; wil, very fertile. Cap. Brownsville. Pop. (1890) 23,558.

Has'ael, (Script.) an officer of Benhadad king of Syria,

Hawael, (Script.) an officer of Benhadad king of Syria, whose future accession to the throne was revealed to the prophet Elijah (1 Kings xix. 15). Many years afterwards he was sent by Benhadad to consult Elisha, then at Damascus, as to his recovery from sickness, and on the next day smothered the king with a wet cloth (2 Kings viii. 7-15), B. C. 885. Having usurped the throne, he reigned forty years; and by his successful and cruel wars against Judah and Israel justified the forebodings of Elisha (2 Kings viii. 28; x. 32; xii. 17; xiii. 3, 7; 2 Chr. xxii. 5).

Haward, n. [Fr. hasard; It. azzardo, azzardáre, L. Lat. azardum; probably from Fr. as, ace at dice and cards; Hind. harjeet, to venture in a game at dice.] Chance; accident; casualty; that which comes fortuitously, unexpectedly, or suddenly: hap.

—Risk; venture; jeopardy; exposure; liability; perli;

To incur, or bring on: as, he hazarded the loss of his life. — To put in danger of loss or injury.

"He hazards his neck to the halter." — Fuller.

"In . 10 try the chance; to adventure; to run the risk or danger.

Haz'ard, in Kentucky, a post-village, cap. of Perry co., abt. 94 m. S.B. of Lexington.

Haz'ardable.a. Uncertain; indefinite, resting on the color of the hazel-nut; light brown.

Has'ardable, a. Uncertain; indefinite; resting upon Ha'zel-nut, w. The nut or fruit of the hazel.

chance; liable to hazard; as, a "hazardable determination."—Browne.

Has'arder, n. One who hazards, or puts to chance.

Has'ardeus, a. Containing hazard; that exposes to peril or danger of loss or evil; perilous; dangerous; daring; adventurous; venturesome; precarious; uncertain the hazards at the new properties of the loss of t chance; hable to hazard; as, a "nazardade eleminia-tion." — Browne.

Has'arders, a. Containing hazard; that exposes to peril or danger of loss or evil; perilous; dangerous; daring; adventurous; venturesome; precarious; uncer-tain; as, a hazardous step, a hazardous attempt.

Has'ardousaly, adv. In a hazardous manner; with peril; with danger of loss or evil.

Has'ardousness, a. State or quality of being haz-ardous.

Haz'ard-table, n. (Games.) A table for playing

hazard, and other games of chance.

Haz'ardwille, in Connecticut, a post-village of Hartford co., abt. 18 m. N.N.E. of Hartford.

ford co., abt. 18 m. N.N.E. of Hartford.

Hase, n. [Armor. aczen, vapor, exhalation; Hind. kohase, a haze.] Vapor which renders the atmosphere
thick, though not so damp as in foggy weather.

—v. n. To be thick or opaque with haze.

Hase, v. a. To frighten or intimidate; to annoy by
playing practical jokes upon; to irritate with captions
or needless reproof; to punish by inflicting the performance of a disagreeable or irksome duty; —chiefly used
in a slang sense, by sallors, students, &c.

Hasebrousek, (harbrook.) a town of France, dept.
Nord, 25 m. W. of Lille. Manuf. Thread, cloth, leather,
tobacco, linen, &c. Pop. 8,310.

Hasel, (hd'sl.) [A. S. hzsl.] (Bot.) The common
name of the genus of plants Corplex, order Corylacze, of
which the

which the fruit is a nut in a leafy and laciniated cup, the en-iarged involucre of the female flower. The male flowers are in cylindrical catkins (Fig. 1256); the fe-male flowers appear as of colored styles at the extremities of buds; the male flowers are pretty conspic u ous, the female flowers are very small.— The Common H. (C. avella-



(Corpius Americanus.)

na. (c. decides may be a female flower; b. male flower; c. cob-nut; shrub or low tree, with a bell-shaped fruit-cup, which is somewhat two-leaved, open, and spreading. It is a native of Europe, and much resembles C. Americanus, which grows in thickets and borders of fields, throughout the United States. States. Hazel-nuts yield, on pressure, about half their weight of a bland fixed oil, often called nut-oil in England, the hazel-nut being popularly known by the term nut alone. But in France and in Germany it is walnut-oil which is usually called nut-oil. Hazel-nut alone are to all the descriptions. it is walnut-oil which is usually called nut-oil. Hazel-nut oil has drying properties, and is much used by painters; it is also used by perfumers as a basis with which to mix expensive fragrant oils; and it has been employed medicinally in coughs. The wood of the hazel, aithough seldom large enough for the pur-poses of the carpenter, is very tough and flexible, and hazel-rods are therefore much used for making crates, hurdles, hoops for small barrels, &c. The thicker stems of H. are used for making charcoal, which is in great request for forges, is much estermed for the manufac-ture of gunpowder, and is the kind preferred by artists for crayons. Most of the cultivated varieties of the hazel-nut are known by the names of cob-sus and fillerts for crayons. Most of the cultivated varieties of the hazel-nut are known by the names of cob-sats and fillerts (c, d, Fig. 1256); the former generally of a roundish forms; the latter characterized by the greater elongation and laciniation of the truit-cup; the name filbert tion and lacinitation of the fruit-cup; the name filbert being indeed regarded as a corruption of full-beard. The Red Filbert, or Lambert's Nid, is remarkable for having the pellicle which surrounds the kernel of a crimson-red color. The finer kinds of H. are propagated by grafting and by layers. Rods of hazel wood have been long credited with magical properties by the credulous, it being believed that by the use of a divining rod made of them the location of water, minerals, or buried treasure could be discovered in the earth.

"I will stand the h-rard of the die."—Shaks.

—Risk; venture; jeopardy; exposure; liability; peril; danger.

—A game at dice.

—To run the hazard, to risk; to take the chance.

—The hazard i have run to see you here."—Dryden.

—e. a. [Fr. hasarder.] To risk; to venture; to expose to chance or luck.

—They... hazard greatly their own estates."—Hooker.

—To incur, or bring on: as, he hazarded the loss of his

Ha'siness, s. State or circumstances of being hary; mental torpidity; forgetfulness.

mental torpldity; forgetfulnes.

Ha'zle Grove, in Missouri, a village of Saline co.

Ha'zle Grove, in Missouri, a post-village of Cojiah
co, about 40 m. 8. by W. of Jackson. Pop. (1899) 1,745.

Ha'zle Patch, in Kentacky, a post-village of Gitson co, on
White river, about 13 m. 8. of Vincennes. Pop. 688.

Hazletom, in Mosco, a post-town of Buchaman co.
Pop. (1897) about 1,500.

Hazletom, in Missouri, a post-office of Texas co.

Hazletom, in Missouri, a post-office of Texas co.

Hazletom, in Missouri, a thriving post-borough of
Luzerne co., on Lehigh Val. R. R., 22 m. S. of Wilkebarre; mines and ships anthracite in large quantities
and has other important industries. Pop. (1897) about
13,500. 13,500.

13,500.

Has'lettville, in Delascara, a post-village of Kent co.

Has'lewood, in Kentscky, a post-office of Ballard co.

Haslewood, in Missacota, a village of Redwood co, on the Minnesota co, about 70 m. W. of Glencoe.

Haslewood, in Missacri, a village and township of Webster co, about 22 m. E. of Springfield.

Haslewood, in M. Ostorisa, a township of Chester co.

Haslewood, in S. Carolisa, a township of Chester co.

Haslewood, in S. Corolina, a township of Chester co.

Has Titt, William, an English auther and critic, a
1778. Educated for the clerical profession, H., after a
brief attempt at an art career, decided to enter the
paths of literature, and in 1805 produced his Principles
of Human Action. This was the germ of a long and
successful literary career, during which he gave to the
world his Lectures on the Literature of the Firabethan
Age; Table Tulk; Lectures on the English Prets; The
Spirit of the Age, and his well-known Life of Nuprices
Bonaparte, (4 vols. Svo., 1828.) D. 1830.— His son WilLiam is also distinguished as a man of letters; and the
hereditary tendency is further exemplified in his son.

Bonaparie, (4 Vois. 8vo., 1822.) D. 18-30.— His son with than is also distinguished as a man of letters; and the hereditary tendency is further exemplified in his son, WILLIAM CAREW. S. 1834, author of the History of the Venetian Republic; British Columbia and Vancourer's Island; The Gold Fields of Ouriboo; and Remains of the Early Popular Postry of England.

Ha'sor. (Seript.) A chief city of northern Cansan, whose king, Jabin, at the head of an allied host, was defeated by Joshua, (Jush. xi. 1-13.) Hazor revived, how, ever, and for a time oppressed the Israelites; but was subdued by Barak, fortified by Solomon, and remained in the possession of Israel until the Invasion of Tiglath-pileser, (Josh. xix. 36; Jusq. iv. 2; 1 Kings ix. 15; 2 Kings xv. 29) It lay not far from Lake Meron.— It was also the name of cities in Jusha and Benjamin, (Josh. xv. 2-3; Noh. xi. 33;) and of an unknown region in Arabia, laid waste by Nebuchadnezzar.

Ha'sy, a. Thick with vapor, but not so damp as is foggy weather; as, a hary morning.

"The hary North."— Thomsen.

—Forgetful; having but a dimidea or recollection of; intellection in the control of the new of city of the new of the

Forgetful; having but a dimidea or recollection of; intel-

—Forgetful; having but a dimides or recollection of; intellectually dull: as, a man of hazy opinions.
He, (hĉ.) (pron. of the third person: nom. RE: poss. RE; obj. RIM.) [A.S.; D. hū; Fris. hī; Dan. and Swed. han; then. hū: Ar. hū; Ir. ĉ; Gael. o; Armor. hĉ: Hind. yh.] A substitute for the third person, masculine gender, representing the man or male person named before.
^Adam spoke; so cheered he his fair spouse.
— Miton.

Any man; the man; - used indefinitely for any person, and generally preceding a relative pronoun.

"He that is down can fall no lower."—Butler.

Man; a male; any male person or animal; as, a he-goat.

—Man; a male; any male person or animal; as, a he-goat.

"Manua's law is death to any he that utters them."—Shah.

"Head, (hèd), n. [A. S. heafod; Ger. haupt: D. heofd;
Dan. hored; Goth. haubith. The A. S. is probably connected with hebban, Goth. haffan, to raise, to elevate.]
The uppermost part of the human body, or the foremost part of the body of prone or creeping animals.—See Brain. Skull, Tongous, &c.

—The principal, chief, upper, or foremost part of a thing; the top or extremity of a thing, especially when larger than the other part or parts; as, the head of a must, of a spear, cabbage, nall, cane, &c.—The fore or front part, or the place where the head should go: as, the head of a bed, the head (or hood) of a carriage.—A chief; a principal person of any organized body; a leader; a commander; as, the head of the Church, the head of as army, the head of a State or family, a head-cook, &c.

"The heads of the chief sects of philosophy."—Tilloteen.

"The heads of the chief sects of philos ophy."— Tillet The first place; the place of honor, command, or responsibility: the front; the most important position; as, the head of troops, the head of the class, &c.

They made room for the old knight at the head of the

Countenance: presence.

"All the stars hide their diminished heads."-Milton.

An individual; each one among many; as, a thousand head of cattle, a certain rate per head, &c. — The brain: the seat of the intellect; the understanding; mental faculties: as, he has a good head for figures, that is, of good arithmetical ability; of his own head, of his own idea or free-will; voluntary; it never enters his head, it does not occur to him. it does not occur to him.

"We laid our heads together, to consider what grienation had suffered."—Addison.

anton and surerea. —Adesson.

The principal source, spring, or beginning, as of a rive or stream of water: as, the head of the Niger:—hence, the height of the surface, as of water; also the quantity in reserve, and the pressure resulting from either; as a good head of water, the head of a gulf. Ac. — A topic of

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"Tis our duty . . . to satisfy ourselves on this head." Trisis; pitch; culminating point; height; force; as, this evil has now grown to a head.

" I have married her: the very load and front of my offending.

State of a deer's horns by which his age is known.

A buck is called the fifth year a buck of the first head. "—Shake.

The frothy effervescence which rises on a glass of ale or pot of porter, or other liquor in a state of chulistion; as, give me a pint of beer with a head. — Mode of dressing the hair; head-dress, or covering; as, a head of hair.

"Ladies gain a point when they have teased their husbands to beay them a laced head."—Swift.

Power; military force; material strength; influence as, one's apprehensions gain head.

"My lord, the French have gathered head."-Shake. Resistance; successful opposition; spontaneous will or resolution.

" Making another head to fight again."-Shake.

-Liberty; license; freedom from restraint or control.
"He gave his able horse his head."—Shake.

( Naut.) The forward part, or fore extremity of a ship.

(Naut.) The forward part, or fore extremity of a ship. It is generally applied to the cutwater, which is adorned with a figure or billet.

—pt. (Building.) Tiles laid at the eaves of a house.

Head of Water. (Civ. Engineering.) The height which a column of water is submitted to; it is neasured from the upper surface of the lower stream to the upper surface of the reservoir producing the pressure. The effective pressure will be that indicated by this height, diminished by the friction that the column of water undergoes in the pipes, and through any change of direction that may take place in them. — By the head. (Naut.) A term implying that a ship's head is depressed in the water, ms. she draws 16 feet by the head. — Head-sails, headns. she draws 16 feet by the head.— Head-sails, head-yards. (Nam.) The sails and yards applying to the fore-mast of a ship.— Head and ears, deeply; completely; entirely; with the whole being; as, he is head and ears in love.— To be altogether submerged; as, they are head and ears in debt. to be soused head and ears in water, &c.— Head and shoulders, by forcible means; violently.

"They bring in every figure of speech, head and shain force." - Patton. main scree."—Patton.
In a great degree; much; by far; exceedingly; as, they are head and shoulders above me.—To come to a head, to mature; to reach its full limit; as, a boil comes to a head.—Head or tail, one side or the other; this side or that; used in determining anything by the tossing of a coin into the air, head bearing the effigy, and tail the other side; as, head or tail, two out of three!—

tail the other side; as, head or tail, two out of three?—
To his head, point-blank; before his face.—Neither
head nor tail, neither one thing nor the other; indistinct;
indefinite; as, I can make neither head nor tail of it.—
To make head, or to make head against, to advance; to
move onward in face of resistance; as, "Henry Bolingbroke made head against my power." (Shaks.)
To farm head, to show the face; to turn the front,
"The ravishers turn head, the fight renews."—Dryden.

Elead, v. a. To form a head to; to fit or furnish with a head; as, to head an arrow.

"A spear upright, Acaded with pleroing steel." - Dry

To lop; to cut off the head of, as trees.

To lead; to direct; to act as leader to, or commander of, as a company; as, to head an expedition, to head a riot, to head a clique, to head the opposition, &c. "This lord had headed his appointed bands." - Prior.

to head a clique, to head the opposition, &c.

"This bord had headed his appointed bands." — Prior.

—To go in front of; to get into the front of, in order to stop; to oppose; to run round and blow in opposition; to; as, contrary winds headed the ship, to head a drove of sheep, &c. —To set on the head; as, to head a barrel. The head off, to get before; to intercept; to interpose one's self; as, to head off a fugitive.
—r. n. To spring; to have its source or origin, as a stream.—To go; to move toward; to tend; as, the ship heads N. W. by N. — To form a head; to come to maturity; as, how does your asparagus head?

Headsche, (h/d/dk). n. [Sax. heafod, head, ace, ache.] (M-d.) H., or pain in the head, is a complaint of very common occurrence, and may result from so many different causes, that it is impossible to lay down many special directions regarding it. There are few diseases with which it does not occur symptomatically, and it is a prominent symptom in all fevers and inflammations, and in many nervous complaints. It occurs idiopathically, either from weakness or exhaustion of the nerve-power of the brain, or from a disordered state of the digestive apparatus. Sometimes it is an obtuse pain extending over the whole head, with a sense of heaviness, and a general torpitude of the sensorial power, disqualifying the person for continued mental effort. The sight is often dim, the hearing dull, and the memory defective. This arises from some weakness or exhaustion of the brain, and is produced by irregular circulation of blood This arises from some weakness or exhaustion of the brain, and is produced by irregular circulation of blood in the head, by great mental exertion, or by violent mental passions. When it arises from an overloaded condition of the blood-vessels of the brain, there is used ally a bloated countenance, full red eye, and a dull inanimate expression. Cold applications to the head, leeches to the temples, or cupping on the back of the neck, with spare diet and active aperients, are the proper means to be adopted in this case. Where it proceeds from nervous exhaustion or nervous irritability, soothing and strengthening measures are to be adopted, and stimulants, as much as possible, avoided. Tonker of a body of masters in an academy. Head'smastership, n. Office of a principal or head-mastering of Engineering as the head, and strimulants. and stimulants, as much as possible, avoided. Tonics and stimulating, as indicated as possible, avoided. To not ought to be employed, and such other means as out-door exercise, sea-bathing, &c., as tend to strengthen and invigorate the system. Bilious headache, or such as

arises from a disordered state of the digestive organs, usually affects one side of the head only, or but a portion of it, most commonly over one eye, and increasing to an acute and often throbbing pain. It is commonly accompanied with a feeling of sickness, often leading to romiting, and producing extreme languor and depression of spirits. This kind of H. seldom lasts more than a few hours at a time, and may generally be removed by taking a blue pill at bed-time, with a colecynth pill, or other aperient, in the morning. In rheumatic H., which is commonly caused by exposure to cold, the seldom of by taking a blue pill at bed-time, with a colocynth pill, or other aperient, in the morning. In rheumatic H, which is commonly caused by exposure to cold, the pain is of a remittent, shifting, nature, shooting from point to point, and is felt most at night, when the patient is warm in bed.— See Rhsumatism.

HEAD

patient is warm in bed.— See RHEUMATISM.

Head'-band, n. A fillet or band for the head. — The band at each end of a bound book.

Head'-block, n. (Sawing.) The movable cross-piece of a timber-carriage for holding the log.

Head'borongh, (-bur'ro,) n. (Old Eng. Law.) See Resaustings.

Mod. Eng. Law.) A constable in a country district. Head'-cheese, n. (Cookery.) Same as Brawn, q. r. Head'-dress, n. The dress of the head or hair; the covering or ornaments of a woman's head or hair; headgear. — See HAIR-DRESS.

gear. — new management. The crest on a fowl's head.

"Among birds . . . a most beautiful head-dress."

Head'ed, a. Furnished with a head; -- used in composition; as, double-headed, thick-headed, long-headed, clear-headed, &c. — Having a top or head matured by growth; as, a headed cauliflower, — led; directed; as, a headed mob.

Head'er, n. One who heads, as nails, casks, &c.

—A plunge head foremost into deep water; as, I went

-a punge nead foremost into deep water; as, I went down to the shore to take my morning header.

One who leads or directs a clique, party, or mob.

(Building.) In masonry, stones extending over the thickness of a wall; and, in bricklaying, the bricks which are laid lengthwise across the thickness of the wall are called headers.

which are laid lengthwise across the thickness of the wall are called headers.

Head'-fast, n. (Naut.) A rope or hawser to fasten a ship's head to a wharf, &c.

Head'-farst, a. With the head foremost.

Head'-gargile, (-par'pl,) a. A disease among cattle.

Head'-gear, n. Same as Head-deless, q. v.

Head'lly, adv. Hastily; rashly; so as not to be governed.

erned. Fried. Head'incess, n. Quality of being heady; rashness; precipitation.—Obstinacy; stabbornness; having no disposition to submit to control.—Effervescence; ebul-

disposition to submit to control. — Effervescence; ebullition; as, headiness of liquor.

Head'ing, n. That which appears or stands at the head; title; as, the heading of a petition. — Act of furnishing with a head; construction of a head; as, heading of a cask. — Staves, &c., for the heads of casks.

Heading-courses. (Arch.) The horizontal courses, consisting entirely of headers, in opposition to stretchers, or stretching-courses. — Heading-joint. (Curp.) A joint of boards, &c., meeting at right angles to the grain of the wood.

of boards, &c., meeting at rigus ample.

Head Tand, m. (Geog.) A cape; a promontory; a point of land projecting into the sea.

(Agric.) A ridge or border, commonly 10 or 12 feet broad, which is continued round a field in some cases, and which in others is only formed at the two opposite sides, for the purpose of affording space for the horses to turn on while ploughing. (Also called head-ridge.)

Head'-ledges, n. pl. (Spip-building.) The thwartship pieces which frame the hatchways of a ship.

Head'-leas, a. Beheaded; decapitated; having no head. — Without a chief, leader, or guide.

"They made the empire stand headless about seventsen years."

Raleigh.

Head'lee, in Indiana, a post-village of White co., 20

miles N. of Logansport.

Head'-light, n. (Steam-engineering.) A light with a powerful reflector, placed in front of a locomotive-engine, to illuminate the track at night.

Mead'-line, n. (Typog.) The top line of a page in which the running title and folio are given.

title and folio are given. ropes attached to the sails which lie pl. (Naut.) Those re nearest to the yards.

nearest to the yards.

Head'-lining, n. Lining of the head or hood of a carriage, or other vehicle; also, the lining of the roof of a railroad-car. (Used in the U. States.)

Head'long, adv. With the head foremost; as, to fall headlong.—Rashiy; thoughtlessly: precipitately; without reflection.—Suddenly; hastily; without delay or respite.

Dragged i long from the cradle to the tomb."-- Draden.

Steep; precipitous; abrupt.
 "Like a tower upon a headlong rock."—Byron.

Rash: precipitate; heedless of consequences; as, head-

superintendent; an overlooker; a foreman.

Head'-master, n. The principal of a school; the chief of a body of masters in an academy.

Head'-mastership, n. Office of a principal or head-master of a school: as, the head-mastership of Eton.

Head'-money, n. A tax levied on each head or individual, in proportion to his rank or fortune; a capitation- or poll-tax.

Head of Hasianu, in Loumana, a post-vinage of Livingstone co.

Head of Sas'safras, in Maryland, a vill. of Kent co.,

Head'-piece, n. Armor for the head; a helmet; a
morion; a casque.

The head. — Understanding; force of mind.

"Eumenes had the best head-piece of all Alexander's captains
Prideaux. "Eumenes had the best head piece of all Alexander's captains".

pl. (Typog.) Ornaments placed at the top of the flust page, and of the pages beginning with books, chapters, &c., and which are therefore called head-pages. The H. of the old MSS, and some of the early printed books were beantifully illuminated; but in course of time wood-engraving, cast-metal ornaments, flowers, and brass rules were made available for working with the types. H. have been revived of late years; they are mostly copied from old works, but engraved in a finer style. style.

ad'-quarters, s. pl. The quarters or place of res idence of the commanding officer of an army, or any military force; the residence of any chief, or place from which orders are issued; hence, the centre of authority; as, dated from head-quarters.

earters or office of intelligence. The brain is the head-qu

Head'rope, n. (Nast.) That part of a bolt-rope which is sewed up to the upper edge or head of the principal sails.

Head'sail, n. (Nast.) Any sail set forward of a

Head'-sail, 70. (Avant.)
ship's foremast.
Head'-sea, 70. (Naut.) A sea that meets the head of a ship, or strikes her over the bows.
Head'-sail, 70.
Head'-sail, 70.

of a negative.

Head'ship, n. Office of a head or principal; authority; chief place.

Head's man, n.; pl. Headshen. One who decapitates; a public executioner.

Head'spring, n. Source of a spring; fountain: origin.

Head'spring, \*. Source of a spring; fountain; origin. Head'stall, \*. That part of a bridle which covers the horse's head.

horse's head.

Head'sstocks, n. (Mach.) The frames which support
the centres of a lathe; viz., the mandril-frame and the
poppet-head, or back centre-frame; also, the framings
used for supporting the gudgeons of a wheel.

Head'-stome, n. The chief or principal stone in a
foundation; the corner-stone.—The stone placed at the

head of a grave. Head'strong, a.

need or a grave.

Read 'strong, a. Resolute; self-willed; obstinate; violent; ungovernable; unruly; venturesome; as, a headstrong youth.

Proceeding from obstinacy, or invincible determination.

"Your father's folly took a Acadetrong course." - Dryden

Head'-tim, n. (Mining.) A preparation of tin ore towards the fitting it for working into metal. Head'-tire, n. Head-dress, covering, or gear; attire for the head.

Head'way, m. Progress of a ship's advancing motion; hence, progress or advancement of any kind; as, they are making headscay with the building.

(Arch.) Clear, open space under an arch, or over a

(Arch.) Clear, open space under an arch, or or a stairway, &c.

Head'-wind, s. (Nast.) A wind that blows in direct opposition to a ship's course.

Head'-work, s. Mental or intellectual labor.

(Arch.) A decoration for the keystone of an arch.

Head'-work mam, s. A foreman or chief of a body of workmen

Heal, v a. [A. S. kelan, gehelan, from heln, hel, health, care, safety; Goth. hailjan, to hall. See Health and Whole.] To make hale, sound, or whole; to cure of a sickness or wound; to cause to close up, as a wound; to restore to a sound state of body.—To remove, diminish, or subdue; — said of a hurt or wound.—To restore to an original state of integrity.

"Our Saviour healed the sick, and raised the dead." To remove, as differences or dissension; to reconcile, as parties at variance; to cure, as moral diseas

soundness to. "I will heat their backsliding." - Hos. xiv. 4.

"I will seet their backsilding."— Hos. xiv. 4.

— a. To grow whole or sound; to recover; to return to
a sound state; sometimes followed by up or over; as,
the sore heals up, the wound has healed over.

Heal'able, a. Susceptible of being healed.

Healds, (heids,) s. pl. The harness for guiding the
warp threads in a loom.

Healds'burg, in California, a city of Sonoma co., 16
miles N.N.W. of Santa Rosa. Pop. (1897) about 1,600.

Heal'er, s. He or that which heals, cures, or restores
to soundness.

to soundness.

Heal'famg, n. [A. S., a catching of the neck.] The old English name for the punishment of the pillory. The term was also applied to the fine paid in order to commute this punishment.

Heal'ful. a. Healing; having a tendency to heal.

Heal'fung, a. Tending to cure; mild; modifying; assursive: as, a heating salve.

Heal'ing, a. (Building.) The covering a roof with lead, tin, slates, &c.

Heal'ing Process, a. (Surg.) The means by which nature repairs an injury in the human body are of the most simple, yet efficacious character; and if the vitality of the part has not been destroyed by the accident, and there is sufficient health and strength in the patient, and the surgeon has to do is to cleanse the part of all irritating or foreign substances, such as grains of gunpowder, sand, stones, splinters of wood, &c., lay the parts amouthly together, and, enjoining perfect rest, leave nature to effect the cure. This, in the skin and fiels of the body, is effected by the vessels from the cut or lacerated part throwing out a thin fluid called coagulable lymph, which, as it hardens, has the effect of gluing the parts together. Into this lymph, after a short time, which, as it hardens, has the effect of gluing the parts together. Into this lymph, after a short time, is an expectation of the body, is effected by the vessels from the cut or lacerated part throwing out a thin fluid called coagulable lymph, which, as it hardens, has the effect of gluing the parts together. Into this lymph, after a short time, it is a state of being healthy or in a state of point health, which as the eart to a time! Trumpet, n. (Acousticz.) See Eart TRUMPET.

Health'fulnees, n. A state of being healthy since of qualities that promote health and vigor; as, the healthy linear, the health of nearts, or the air. Health'fulness, n. (As the ordinal promote, the air, y, n. I. A. S. heoreman, hyroman, which as the learn health of the same, is shown to the safe, in the other, n. (Acousticz.) See Eart TRUMPET.

Health'fulnees, n. A state of being healthy after a the thealth and vigor; as, the healthy under the air the promote health and vigor; as, the healthy limear, of the air. Health'fulness, n. Learn health manner; without discase; soundly.

Health'fulness, n. A state of being healthy or in health, of the air. Health'fulness, n. (hitrk'n.) v. n. [A. S. heoreman, lead, tin, slates, &c.

Heal'ingly, ade. In a curative manner.

Heal'ingly, ade. In a curative manner of the most simple, yet efficacious character; and if the vitality of the part has not been destroyed by the actident, and there is sufficient health and strength in the patient, all it he surgeon has to do is to cleanse the part of all irritating or foreign substances, such as grains of gunpowder, and, stones, splinters of wood, &c., lay the parts smoothly together, and, enjoining perfect rest, leave nature to effect the cure. This, in the skin and fiesh of the body, is effected by the vessels from the cut or lacerated part throwing out a thin fluid called coaquiable lymph, which, as it hardens, has the effect of gluing the parts together. Into this lymph, after a short time, minute arteries shoot, and begin laying down new muscular fibre, till either the breach is filled up, or the two severed sides intimately unite. The simplest form of this process is when a clean cut is made through the skin or fisch by a sharp knife, and the two sides, being brought exactly together, and so retained, heal with surprising rapidity, leaving no trace of the injury inflicted. This process is called by surgeons, susion or healing by the first intention, and which, being the most astisfactory and rapid in its result, is always eagerly sought for in practice. The other form of the H. P. may be illustrated by a wound inflicted by some weapon that actually cuts a piece out of the fieth and cuticle, leaving a cavity of more or less extent to be closed up. As the edges of such a wound cannot be brought together for the intervening gap, there is no hope of effecting union by the first intention; reparation must consequently be effected by the production of ne effected by the production of new matter, and the filling up of the cavity from the bottom by fresh granulations, till the excavation, having been filled up to the level of the adjacent parts, begins to film over from the edges, and the whole is covered with a new and healthy skin, leaving, however, ascar or cectries; this process is called union by the second intention. The repairing power of nature is so active, that if a portion of fiesh is cut out, a uses or finger severed from the body, and either fitted into its place, and securely retained there for some time, twill become once more as firmly united as if it had into its place, and securely retained there for some time, it will become once more as firmly united as if it had never been parted from the body. This is no theory, but a fact, and one that should never be lost sight of by those who may be called upon to act as a friend in need, or on smergency in cases of accident.—See Wounds.

\*\*Tealth\*, (hillh\*,) n. [A. S. heilu; Ger. heil.] That condition of the living body in which all the vital, natural, and animal functions are performed easily and perfectly, and unattended with pain. It consists in a natural and proper condition and propertion in the functions and

proper condition and proportion in the functions and structure in the several parts of which the body is com-posed. From physiology we learn that there are certain relations of these functions and structures to each other, and to external agents, which are most conducive to their well-being and permanency, which constitute the condition of health. States which are deviations from uner weir-being and permanency, which constitute the condition of health. States which are deviations from the due balance between the several properties or parts of the animal frame constitute disease. The most perfect state of health is generally connected with a certain conformation and structure of the bodily organs, and well marked by certain external signs and figures, a well-proportioned body, caim and regular circulation of the blood, free and full respiration, easy digestion, &c. There are, however, few persons who can be said to enjoy perfect health; and hence, in ordinary language, when we speak of health, we imply merely a freedom from actual disease. In this sense, the standard of health is not the same in every individual, that being health in some which would be disease in another. The healthy pulse in adults averages from 70 to 80 per minute, yet there are some in whom 90 or a 100 is a healthy pulse function at trength and activity, netwous sensibility, and the sensorial powers, vary exceedingly in different individuals, yet all within the limits of health. There is scarcely any earthly blessing men hold so lightly as dividuals, yet all within the limits of health. There is exarcely any earthly blessing men hold so lightly as health, and yet there is none they so deeply deplore the loss of when deprived of it. In order to preserve health, it is necessary to be temperate in food, exercise, and sleep, and pay strict attention to bodily cleanliness, be-sides abstaining from spirituous liquors and the over-indulgence of soccual gratifications.

Sound state of the mind; natural vigor of the faculties;

moral purity; goodness; salvation.

"The best preservative to keep the mind in health is the faith ful admonition of a friend." — Bacon.

Wish of health and happiness; - used in drinking.

Come, love and Assith to all;
I drink to th' general joy of the whole table." — Sh To drink a health, to drink with the utterance of a wish

To drink a health, to drink with the ulterance of a wish for the health, happiness, and prosperity of another; as, gentlemen, let us drink the Queen's health.

Bill of health. See Bill.

H'aith. (Public.) See Sanitary Science.

Health full. a. Full of health; being in a sound state; free from disease; well; health; hill. sellwhight. — South.

"Nature was his physician, and kept him healthful." — South.
Sanitary to prompte health; sellwhight.

-Indicating health and soundness; resulting from a hale or wholesome condition; as, a healthful life.—Well-disposed; favorable; propitious.

"Such an exploit have I in hand, Had you a *healthful* car to hear it." — Shake. Health fully, adv. In health; soundly; wholesomely

Heam, s. [A. S. hama, hame, the womb.] The after hirth in bear

birth in beasts.

\*\*Hea'mor, a town of Derbyshire, England, 9 miles N. of Derby; pop. 7,100.

\*\*Heap, n. [A. S., from hebban, to raise; Dr. hoop; Ger. has/c. See the verb.] A pile or mass; a collection of things laid in a body so as to form an elevation; as, a heap of stones, a heap of rubbish.—A crowd; a com-

things laid in a body so as to form an elevation; as, a heap of stones, a heap of rubbish.—A crowd; a concourse; a cluster; a throng;—used in application to persons. (Colloq. and vulgar.)

"The saliors rue in heaps, a helpless crowd."— Drydon.—e. a. [A. S. heapian; Ger. häufen; O. Ger. häffen, gahufon, to heap up, to accumulate.] To heave, raise, or lift up, as in heaps; to pile; to throw or lay, as in a heap;—often before up; as, to heap up sand,—or on; as, to heap on coals. heap on coals.
"Heep on wood, kindle the fire."—Ezek xxiv. le

To amass; to accumulate; to lay up; to collect in great quantity; to add something else, in large quantities; generally followed by up; as to heap up riches.—To add till the mass takes a roundish or conical form, or till it rises above the usual quantity; as, heaped measure.

Heap'er, n. One who heeps, masses, or accumulates.

Hemp'y, a. Lying in heaps.
"O'er the mud pavements, Acepy rubbish grows.

Hear, v. a. (imp. and pp. Heard.) [A. S. hyran, ahyrian, geheoran; D. hooren; Gr. ous, the Lat. audire, the parent of the It. udire, and Fr. ouir, seem connected with the Sansk. out, to hear.] To perceive by the ear; to feel, as an impression of sound, by the proper organs; to experience the sense of sound.

"To hear, to see, to feel, and to po

To give audience to, or allowance to speak: to attend; to listen to; to heed; to attend to or examine judicially; to try in a court of law or equity.

"Romans, countrymen, and lovers; Ace be silent that you may Acar."—Shaks.

To obey; to attend favorably; to regard; to grant, as an answer to a prayer or request; to accede to the wishes of. — To acknowledge or take as a title. (A Lat-"Or hear'st thou rather pure ethereal stream."—Mile

To hear say, to hear another person say; to receive by runner; to be informed by common report or talk. (Colloquially used.)

"Have you not heard it said full oft,
A woman's nay doth stand for naught? "—Shake.

v. m. To enjoy the sense or faculty of perceiving sound by the car. "The hearing car." (Prov. xx. 12.)—To listen; to hearken; to attend.—To be told; to receive

by report or rumor; to be informed by oral means
"I have heard, sir, of such a man."—Shake.

Icard, in Georgia, a W. co., adjoining Alabama; area, about 286 sq. m. Rivers. Chattahoochee River, and the Whitewater and Sundalhatchee creeks. Surface, un-Whitewater and Sunuannature circus. Surjuce, du-even; soil, fertile. Min. Gold, lead, and iron. Cup. Franklin. Pop. about 8,500. Hear'er, s. One who hears; one who attends to what is orally delivered by another; an auditor; one of an

the function of the ear by which we are made cognizant of the different sounds which reach that organ, or the faculty by which we perceive and translate sounds. The air, set in motion by the voice of a speaker, the fall of a hammer, or by any other cause, comes in waves or undulations to the ear, where they are collected by the cartilage of the ear, and the vibrations transmitted to the middle ear, causing the small bones to strike the tympanum, from whence they are taken up and conveyed by louder vibrations to the internal apparatus of the inner ear: where the sounds undulating through the semilouder vibrations to the internal apparatus of the inner ar; where the sounds, undulating through the semi-circular canals, vestibule, and cochlea, are reverberated where every filament of the auditory nerve, or nerve of hearing, is expanded, and receives the impression of the word or sound carried by the undulating air, to be transmitted by the nerves to the senorium, or brain, where the educated faculty gives a meaning or translation to the sound heard. Anatomy makes us familiar with the machinery by which this function is performed, but how we are enabled only to hear one sound by two ears, and can with such velocity interpret sounds into words, and we are enabled only to hear one sound by two ears, and can with such velocity interpret sounds into words, and words into ideas, is but a part in the chain of that in-explicable mystery which shrouds so many of the intellectual attributes of man.—See EAR; DEAFNESS.

-Act of auricular perception; as, she's hard of hearing.
-Audience; attention to what is orully delivered; opportunity to be heard; judicial trial or examination; as, the second hearing of the case came on yesterday.

-Reach or scope of the ear; extent within which sound may be heard.

may be heard.

You have been talked of . . . and that in Hamlet's hearing."
Shake.

attend; to grant or comply with; to pay regard to.

"He hearkens after prophecies and drams."—Shake.

Hearkense, (härk'ner.) n. One who hearkens; a listener; an auditor.

Hear'say, n. Anything heard to be said; report; common talk; rumor; fame; gossip; scandal; as, I had it from hearsy.

H. Evidence, (Law.) is that kind of evidence in which a witness speaks not from his own knowledge, but from what he heard another person say. As a general rule such evidence is inadmissible in a court of law, as it person by whom the statement was first made came to sworn, neither can he be cross-examined; and the full truth or satis means. person by whom the statement was first made came to essent, neither can he be cross-examined; and the full truth or entire meaning of the statement may not have been carried away. But there are some cases in which such evidence is received; as in proof of any general custom, or matters of common tradition or repute; or an account of what deceased persons have said in their life-time.

repute; or an account of what deceased persons have said in their life-time.

Hearse, (hérs,) n. [O. Fr. herce, a harrow; a kind of portculis with sharp pikes, like a harrow; afterward a sort of candle-stick resembling a harrow, placed with candles at the head of graves or cenotaphs: hence the word came to be used for a grave or cenotaph, for a coffin, and for a funeral carriage.] An ornamental car or carriage for conveying the dead to the grave.

(Venery.) A hind of the second year. (England.)

Hearse-cloth, n. A pall; a covering for a hearse.

Hearse-cloth, n. A pall; a covering for a hearse.

Hearse, (härt.) n. [A.S. heort; Fris. hert; Dan. hjerte; Swed. hioria; Ger. herz; Icel. hiaria; Lat. cor; Gr. keatus, for keardos; Sansk. hrid; also hridapa, the heart, knowledge, science.] (Anat.) The reservoir of the blood, and the great central organ of the circulation, a a hollow muscular organ in the form of an irregular cone, and placed obliquely in the lower or front part of the thorax, inclined most to the left side (Fig. 1257)



Fig. 1257. - THE HEART, (RIGHT SIDE.)

Fig. 1257. — THE HEART, (RIGHT SIDE.)

The base is directed towards the spine, and corresponds with the fourth and fifth dorsal vertebre, while the apex points between the cartilages of the fifth and sixth ribs on the left side. It rests upon the disabragm, having the lower surface somewhat flattened. It is included in a membranous bag, called the pericardism, but loosely, so as to allow free motion. Though forming one nuncie, there are two distinct hearts, each side being divided from the other by a septem or wall. It contains (see Fig. 201) four cavities — two at the base, termed carricles, and two at the apex, termed exerticies. The right aurticle has four apertures — one from the superior vena cava, by which the blood is returned from the blood from the lower parts of the system; one from the inferior vena cava, returning the blood from the lower parts of the system; one from the coronary ven, by which the blood is returned from the heart itself; and one into the right ventricle. The left ventricle has its walls much thicker than the right, and forces the blood into the aorta for distribution over the entire system. At the commencement of the sorta there are three signosd or semilunar valves, as in the pulmonary artery, for prethe commencement of the aorta there are three signs of semilunar valves, as in the pulmonary artery, for preventing the blood from returning. The heart of a fetus differs from that of an adult in having a foramen ovale, through which the blood passes from the right anricle to the left. The exterior fibres of the heart are longitudinal, the middle transverse, and the interior obliqua dinai, the middle transverse, and the interior conque.

The contraction of the heart is termed symbole; its diatation diastole. Each of the four cavities of the heart contains between from 2 to 3 oz. of blood; the whole quantity of blood in an adult man varies from 25 to 30 pints or lbs. The heart contracts 4,000 times in an hour: there consequently passes through the heart every hour 8,000 oz., or 700 lbs. of blood; in other words, overy drop of blood in the system passes through the heart 28 times in one hour, or once every two minutes. See CERCLE TION OF THE BLOOD

Disease of the Heart. (Med.) The heart, from the important part which it plays in the animal economy, is subject to various, serious, and often fatal diseases. Like the other viscera, it is removed from the eye, so

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that little knowledge of its condition can be obtained that little Knowledge of its condition can be obtained by inspection; and hence we must have recourse to other means. The ear is the principal means of obtaining a knowledge of the state of the heart, and by australian and percussion (q. v.) we are enabled to detect the existence of various diseases. The heart gives out two sounds, known as the first and second, which are distinguished from each other. The first sound is longer than the second, and the interval between the first and second sounds is shorter than that between the second second sounds is shorter than that between the second and first. They have been compared to the two syllables lapp, dapp. Any manifest alteration in these sounds is indicative of the existence of disease. They may be high or low, clear or dull, muffled, rough, intermittent, &c. Murmurs or regurgitant sounds may arise from disease of the valves. The power of distinguishing between the normal and abnormal sounds of the heart, from disease of the valves. The power of distinguishing between the normal and abnormal sounds of the heart, and of the causes producing the latter, can only be obtained by lengthened experience. Diseases of the heart are usually divided into two classes: I. functional, or seroes; and 2 structural, or organic. Chief among the former are palpitations, syncope, or fainting, and anytina pectoris, (q.v.) They are chiefly to be met with in persons of a naturally nervous temperament, more especially women sufforing from hysteris or other like complaints, and may be induced by great mental excitement. In such cases great attention should be paid to the general health, and by means of tonics, sea-bathing, and gentle open-air exercise, the system is to be strengthened. Violent exertion and strong mental excitement are particularly to be avoided. Among the principal organic diseases to which the heart is subject are pericarditis, carditis, endocarditis, atrophy, hypertrophy, dilatation, and valustar disease.—Pericarditis, or inflammation of the pericardium, may be induced by exposure to damp or cold, or by other causes, which give rise to inflammation in other parts. It is characterised by great tenderness over the region of the heart, amounting, when pressed, to sharp cutting pains, which prevent one from lying upon the left side. If, as is usually the case, the pleura is involved, there will be acute pain, or coughing, or trawing a deep breath. Sometimes the stack is not so severe, and but a slight pain is felt, or only a sense of heaviness and oppression. Generally the action of the heart is increased, sometimes so much so as to constitute palpitation. Frequently there is a considerable quantity of fluid efficised into the cavity of the pericarso severe, and but a sight pain is let, or only a sense of heaviness and oppression. Generally the action of the heart is increased, sometimes so much so as to constitute palpitation. Frequently there is a considerable quantity of fluid effused into the cavity of the pericardium, which is sometimes externally visible by the bulging out over that part. It is a frequent attendant of acute rheumatism, (q. v.) Its mode of treatment depends very much upon the particular circumstances of each case. Where the disease is rapid and violent, bleeding may be of great service; in other cases conica, and in some cases stimulants, are employed.—Carditis, or inflammation of the heart itself, sometimes cocurs, but it is usually accompanied with inflammation of the pericardium; the symptoms in both cases are the same, and the treatment will consequently be similar in both. The like remarks also apply, in great measure, to endocarditis, or inflammation of the interior lining membrane of the heart, which is usually accompanied by one or both of the above. In this case there is more or less of fever and anxiety, and a peculiar sound of the heart is heard upon auscultation.—Atrophy, or a companied by general enactation, and will be pretty sure to terminate in death. When the heart is examined after death, its tissues are found to have undergone a change, and, instead of a striped, to present a homogeneous appearance. This is called fully departation. The treatment is to strengthen the system by tonics, wholesome and nutritious diet, open-sent a homogeneous appearance. This is called fully departation. The treatment is to strengthen the system by tonics, wholesome and nutritious diet, open-sent a homogeneous appearance. This is called fully departation. The treatment is to strengthen the system by tonics, wholesome and nutritious diet, open-sit examined in bulk, and and its operation seriously interfered with. It is usually distinguished into three kinds, —1. than the absorbent. In this way the heart is often greatly enlarged in bulk, and its operation seriously interfered with. It is usually distinguished into three kinds, —1. single, when the walls of the heart, or its divisions, are thickened, without any diminution in the capacity of the cavities; 2. eccentric, or aneurismal, when the walls are thickened, and the cavities likewise enlarged; and, 3. concentric, when the cavities are diminished in proportion to the thickening of the walls. The first of these is the least common, and the second the most frequent; and any of them may afflict a single cavity or the whole heart. From the force with which the blood is propelled in such cases being greatly increased, the tendency is to in such cases being greatly increased, the tendency is to in such cases being greatly increased, the tendency is to produce hemorrhages, aneurism of the aorta, apoplexy, &c. The pulsations are frequently regular but strong, sometimes even visibly raising the bedclothes, and the chest is bulged out over the part. Rest, abstinence, and more or less depletion, according to circumstances, are the proper means to be employed in such a case, and usually, with care and perseverance, the symptoms will be much alleviated. — Diatation of the heart is when one or more of the cavities are enlarged in size without the substance of the heart itself being increased. It is substance of the heart itself being increased. It is sometimes caused by increased action of the heart, and sometimes caused by increased action of the heart, and may be produced by excessive exercise-or strong excitement of any kind; it also frequently arises from want of sufficient muscular strength in the heart i.self, or from some obstruction to the free passage of the blood. It is characterized by want of vigor in the circulation, and by feebleness and inability for exertion in the patient; he will often be exhausted by the loss of even a small quantity of blood, and may be even carried off during a trifling hemorrhage. Attention to the general health, so as to strengthen the patient and restore the circulation, while all exciting causes are to be avoided,

are the means to employ in such circumstances.—The values of the heart are subject to a variety of diseases which interfere with their proper action; these are smooth their proper action; these are smooth their proper action; these are which interfere with their proper action; these are contained, a. Having a heart.—Formed like a heart; cordate, (a.)—Laid up or seated in the heart;—chiefly used to be a subject to the subject of the subje among the most easily detected of the organic diseases, on account of the sounds produced by them. The valves frequently become thickened, or even cartilaginous and osseous, so that they do not act freely, or close imperfectly, leading to obstruction or regurgitation of blood. Being connected with the endocardium, or internal lining membrane, diseases of the valves often result from repeated attacks of endocarditis. These obstructions tend to produce oppression of the breath, apolectic fits, sanguineous and serous congestion,—as, hasmoptysis, albuminuria, dropsy, &c. The mode of treatment in such cases will depend upon the particular symptoms present, otherwise the general mode of treatment indicated above, of strengthening the tone of the system and equalizing the action of the heart, is to be followed.

The seat of the affections and passions; the seat of

followed.

The seat of the affections and passions; the seat of morst life and character, and, rarely, the seat of the understanding or will.

"With heart to heart, and mind to mind." - Scott. Courage; spirit; pluck; indomitable purpose; as, to take heart.

"Faint heart ne'er won a lady fair." Strength; vigor; fertility; efficacy; activity.

-Strength; vigor; fertility; efficacy; activity.

"That the spent earth may gather heart again."— Dryden.

-The chief part; the inner part of anything; the middle part or interior; the seat or source of life; the vital part; the centre of action or motion; as, the heart of a country, the heart of a country, the heart of a mystery, the heart of a population, the heart of a ree or regetable, &c. — That which has the shape or form of a heart; particularly, a playing-card bearing a symbol of the heart; as, hearts are trumps. — Secret intention, purpose, or design; hidden thoughts; recesses of the mind.

"I will... these shew you the heart of my messars." — Shaks.

'I will . . . then shew you the Acart of my message." Disposition of mind; design; purpose; intention; as, I have the heart to do well.

At heart, in the true character or case; as regards the heart; really; truly.
"Every woman is at heart a rake." — Po

By heart, thoroughly; in the closest and most comprehensive manner; as, to learn a lesson by heart.—For my heart, if my life was at stake.

my neart, if my life was at take.

"I could not for my heard easy it him." — Shahs.

To break the heard of. To bring to hopeless grief, misery, or despair; to afflict beyond redemption. — To bring almost to completion; to have finished the greater portion; as, he has broken the heart of the work. — Hardness of heart. Callousness of feeling; want of sensibility; cruelty of disposition. — To find in the heart. To be willing or disposed; to be not wholly averse.

"I could fand in my heart to ask your pardon."—Sidney.
To have the heart in a nutshell. To be mean-spirited, vacillating, or sordid.—To heart. In the immest recesses of the heart; as, to take to heart, that is, to be concerned of the near; as, to take to heart, that is, to be concerned or anxious about, to sorrow for, to grieve over; as, she took her husband's death so much to heart that she soon followed him.—To set the heart at rest. To be unconcerned about; to be at ease.—To set or fix the heart upon. To desire or long for earnestly; to entertain fond inclination for tion for.

To speak to one's heart. To give spiritual comfort to; to console with kind words; to fortify with hope.

Note.—Heart is used in many compound words which are self-explanatory; as, heart-ache, heart-broke, heart-chilled, heartfelt, heart-piercing, heart-rending, heartthrilling, &c.

Heart'-sche, (-dk,) n. Mental sorrow; anguish, or trouble of mind.

trouble of mind.

Heart'-blood, Heart's'-blood, n. The fluid of the heart:—hence, vitality, essence.

Heart'-bond, n. (Manony.) A stone which forms a bond by overlapping two others.

Heart'-breaker, n. Overpowering sorrow or grief.

Heart'-breaker, n. A woman's curl; a love-lock; a loses tress. (Colloq.)

Heart'-broken, a. Overcome with sorrow; deeply affilicted.

Heart'-burn, n. (Med.) The cardialgia, an affection of the stomach, erroneously attributed to the heart, which is a mere derangement of the digestive organs—an excess of acidity in the stomach, either proceeding from too acid a state in the gastric juice, from some an excess of actuary...

from too acid a state in the gastric juice, noncrude and indigestible substance in the stomach, from
a piece of gristle, fragment of bone, or some irritating
body which, as said in the art. Diorstron, attempts to
pass the pyloric orifice of the stomach, and after vain
appeals, is turned back till more completely digested,
causing heat, pain, and inconvenience; or it is the
sensibilities.

Heart'-stirring, a. Moving the heart; exciting the
sensibilities.

Heart'-stirring, a. A nerve or tendon supposed to
brace and sustain the heart.

Heart'-string, a. A nerve or tendon supposed to
brace and sustain the heart.

Heart'-struck, a. Driven to the heart; infixed in
the mind; as, "heart-struck injuries." (Shaks.)—Shocked
with fear or dismay.

"Adam, at the hews, heart-struck stood."—Milton.

Heart'-burning, a. Occasioning discontent.

—n. Discontent; secret enmity; jealousy.
(Mad.) Same as Heart-Burn, q. .

Heart'-dear, a. Fondly prized by the heart. (R.)

"Your own Peroy... my heart-dear Harry."—Shake.

Heart'-deep, a. Fixed or rooted in the heart.

Heart'-ease, n. Quiet; tranquillity of mind: (also written heart's-ease) (a.)

Heart'-easing, a. Bestowing ease or quiet; as, "heart-easing mirth." — Millon.

(R.)

zeal. (a.)

Hearten, (hūr'n,) r. a. To give heart or courage to;
to encourage; to animate; to incite or stimulate the
courage of; as, to hearten troops.

Heartener, n. He who, or that which, heartens or

stimulates.

Heart'felt, a. Deeply felt; deeply affecting, whether as

Heart'felt. a. Deeply felt; deeply affecting, whether as sorrow or happiness.

Hearth, (hārth.) n. [A.S. hearth, said to be from Hertha, Karth., worshipped as a goddess by northern nations, whose name was given to the place on which the homefire was kindled, and also to the house itself; Ger. hard; O. Ger. hert; D. haard. Perhaps, however, the true derivation is from Goth. hauri, a coal, akin to Icel. hyr, fire, to the Sansk. of the Vedas, háraz, a flame, and to Heb. dr. to shine, to kindle 1 A payement or foor of to Heb. dr., to shine, to kindle.] A pavement or floor of brick or stone in a chimney, on which a fire is made; as, a cricket on the hearth.

" Fires unraked, and hearths unswept.

-A house or dwelling-place, as the abode of comfort to its inmates, and of entertainment to guests; as, a hos-pitable hearth.

pitable hearth.

(Metallurgy.) That part of a smelting-furnace where the metal accumulates, and where it is finally separated from the impurities which may be present in the ores; it is situated at the bottom of the furnace a little above the mouth and the tuyeres. The term is also applied to part of an open furnace, where the metal is exposed to the action of fire.

Heart'-hardness, n. Insensibility of heart.

Heart'-heaviness, n. Dejection of spirits; melancholy.

choly.

Hearth'-momey, Hearth'-penny, n. A tax formerly levied on hearths in England.

Hearth'-stome, n. The stone forming the hearth; the fireside.

Heart'sly, adv. From, or with all the heart; with sincerity; really; cordially; as, you are heartily welcome.

Actively; zealously; diligently; vigorously; with zeal: as, they oppose us heartily.—Freely; largely; eagerly; with desire; as, to feed heartily.

Heart'sness, n. Quality or state of being hearty; zeal; sincerity; ardor; vigor; earnestness; eagerness of appetite.

zeal; sincerity; ardor; vigor; earnostness; eagerness of appetite.

Heart?less, n. Without a heart.—Lacking heart or courage; spiritiess; faint-hearted; without feeling or affection; cruel; sa, a heartless parent.

Heart?lessly, adv. In a heartless manner; faintly; timidly; feebly; without feeling or affection.

Heart?lessness, n. Quality of being heartless; want of courage or spirit; feebleness; destitution of feeling or aymmathy.

of courage or spirit; feebleness; destitution of feeling or sympathy.

Heart'let, s. A little heart.
Heart'-pea, s. Same as HEART-SEED, q.v.
Heart'-pea, s. Same as HEART-SEED, q.v.
Heart'-pea, s. Same as HEART-SEED, q.v.
Heart'-reading, a. Broaking the heart; overpowering with anguish; crushing with affliction; as, heart-reading news.

Heart'-rising, s. Opposition rising in the heart.
Heart'-robbing, a. Estatic; depriving of thought; as, "heart-robbing gladness." (Spenser.)—Winning the heart; captivating the affections; as, a heart-robbing beauty. beauty

beauty.

Heart's Coutent, or Heart's Content Cove, a small harbor on the E. side of Trinity Bay, Newfoundland; Lat. 47° 50' N., Lon. 53° 20' W.

Heart's-ease, n. Same as Heart-ease, q. v.

(Bot.) See Viola.

Heart'-seed, Heart'-pea, n. (Bot.) The plants of the genus Curdiospermum are so called, in allusion to their round seeds, which are marked with a spot like a heart beart.

heart.

Heart'-shaped, a. (Bot.) Cordate; possessing the form or shape of a heart.

Heart'-shell, n. (Omch.) A shell shaped like a heart.

Heart'-sick, n. Sick at heart; pained in mind; deeply afflicted, discouraged, or depressed.

Heart'-sickening, a. Disposed to sicken or deject the heart.

the heart. **Heart'-sickness**, n. Heaviness or depression of

spirits.

Heart'some, a. Brisk; gay; lively; cheerful; buoyant. (Used in Scotland and the N. of England.)

"Adam, at the hows, heart-struck stood."—Milton.

Heart'-nwelling, a. Rankling in the heart; as "heart-swelling hate."—Spenser.

Heart'-throb, n. A pulsation of the heart.

Heart'-wellville, in Vermont, a post-village of Bennington co.; generally spelled Hartwellville (q. e.).

Heart'-wheel, n. (Mach.) The name given to a well-known mechanical contrivance for converting a circular motion into an alternating rectilinear one, which is generally adopted in the machinery of cotton mills. It

consists of an ellipse turned either on an axle, or by means of a winch and handle in one of its foci, or its centre, or whose edge a movable point or circle presses; the latter receives an alternating motion from the circumference of the ellipse, which in its motion presses it to different distances from the centre of motion. The practical disadvantages of this contrivance are, the inequality of pressure and of moving force which will be required at different parts of the rotation of the ellipse, and the consequent wearing of some parts of it before the remainder.

before the remainder.

Heart-whole, (hürt'höl.) a. Not affected with love; not touched with the tender passion; having unbroken spirits or good courage; with the heart free and un-

Heart'-wood, n. (Bot.) The English term for DURA-MEN, (q.v.) It is the central part of the trunk of a tree hardened by the deposition in its tissue of various secretions which clog up the passages, and forbid the passage of anything through them.

Heart'-wounded, a. Wounded with love or sorrow; deeply moved or affected with some engressing

row; deeply moved or affected with some engrossing passion.

Hearty, (härt'I,) a. Having the heart engaged in anything; sincere; warm; ardent; zealous; cordial; real; unfeigned; earnest; energetic; as, a hearty support; a hearty reception; a hearty shake of the hands, &c.—In full health: robust; strong; vigorous; hale; sound-bodied; durable; as, a hearty man, a hearty laugh.—Producing or promoting strength; invigorating; nourishing, as food; abundant in quantity; having a keen appetite; as, a hearty dinner, a hearty digestion, a hearty meal.

A hearty eater, one who eats largely and heartily; one who plies his knife and fork well; a good feeder.

Heat, (hêt,) n. [A.S. hætu, hæto; L. Ger. and D. hitte; Ger. hitte; Dan. hede; Icel. hita, hitt; Goth heito, a fever, skin to Gr. atihô, to burn or blaze, to Ar. harārat, heat, and to Hind. hurārut, heat.] The sensation caused by the approach or contact of a hot body, and the cause of that sensation. (See below, § Physics.)

The sensation produced by the vicinity, presence, or touch of fre or of heated matter, or of anything warm:—correlative of cold.—High temperature; degree of temperature to which any body is raised, as distinguished from low temperature, or cold; as, the heats of summer. heat of the weather, fover heat &c.

guished from low temperature, or cold; as, the heats of summer, heat of the weather, fever heat, &c.

" Great heats will follow, and large crops of grain." -Drye

-Indication or effects of high temperature; high color of the face or body; redness; flush; effiorescence; as, a white heat, a sparkling heat, a blood-red heat.

" It has raised . . . heats in their faces." -Addiso

State of being once hot or incandescent; exposure to heat; as, to give a bar of steel another heat.— A violent action unintermitted; a course at a race; a single effort in running; as, three heats and a distance.

"In the last heat, plant dealing won the race."—Drydon.

-Violent action or agitation of the system; utmost violence: rage; vehemence; ardor; agitation of mind;
inflammation or excitement; exapperation; party spirit;
as, the heat of passion, the heat of play, the heat of the

We have split no blood but on the heat of the battle." -Atterbury.

-Fervency; animation in thought or discourse; ardor of pression or elocution.

Plead it to her with all the strength and Asat of eloquence.

Fermentation; effervescence.

Blood-heal, the natural temperature of the human body, or about 98° Fahr.

(Physics.) The material theory of H. which was formerly maintained supposed it to be a form of matter subtle, imponderable, and pervading all bodies, this imponderable substance being called caloric. Its particles were supposed to mutually repel each other, and to be attracted by the particles of other bodies, thus producing the phenomens of expansion and contraction. to be attracted by the particles of other occues, since producing the phenomens of expansion and contraction. Its entrance into our bodies were thought to cause the sensation of heat or carmth, and its departure that of cold. It accounted for the heat evolved by compression com. It accounted for the field evolved by compression or percussion—as when iron is heated by rapid blows—on the supposition that the spaces between the atoms being contracted, the capacity of the body for heat was diminished, and a portion of it is therefore forced out and made manifest. This theory has been abandoned, and what is known as the mechanical or dynamical theory and what is known as the mechanical or dynamical theory accepted in its place. According to this theory, H. is not a material, but a form of motion, a vibration or other mode of activity of the ultimate particles or atoms of matter. It is held that this motion may be generated by friction, percussion, and compression, as well as by combustion. Without further examining be generated by friction, percussion, and compression, as well as by combustion. Without further examining the theories of H,, we will proceed to consider its most important phenomena. The sun is the great source of H, as well as light to the earth. It is estimated that the total amount of solar heat received by the earth in a year, if evenly distributed over its surface, would neit a layer of ice covering the whole earth to a depth of 100 feet; or it would heat an ocean of fresh water 66 miles deep, from the temperature of melting ice to the boiling-point. Faraday estimated that the amount of heat radiated from the same during a summer's day upon an acre of ground in the latitude of London, is not less than that produced by the combustion of 18,000 lbs. of coal. By concentrating the rays of the sun by means of large burning glasses, a most intense H. may be prolarge burning-glasses, a most intense H. may be produced, sufficient to easily melt the most refractory metals. A natural temperature of 120° Fahr. has been observed, and arctic navigators have experienced a cold

of 70° below zero. The greater H. produced by the sun in summer is due to two causes. It is longer above the horizon, and its rays are more direct; that is, in winter, the rays falling obliquely upon the earth's surface are diffused over a much greater space than in summer, and their heating power is weakened in proportion. Recent experiments with the thermo-electric pile prove that even the distant fixed stars are sources to the earth of an appreciable amount of H. The internal fires of the earth are not supposed to affect the temperature at its surface to any considerable extent, but their influence becomes perceptible as we descend toward the centre. (See Earra.) Electricity is also counted one of the sources of H. The most intense H. known is produced by the agency of the electric current, and, on the contrary, as in the case of the thermo-electric pile (see Thermo-Electricity), as in the case of the thermo-electric pile (see Thermo-Electricity), as in the case of the thermo-electric pile (see Thermo-Electricity), as in the case of the thermo-electric pile (see Thermo-Electricity), as in the case of the thermo-electric pile (see Thermo-Electricity), as in the case of the thermo-electric pile (see Thermo-Electricity), as always attended with the production. Tyndall remarks that "we have every reason to believe that H and electricity are both modes of motion." Chemical action is always attended with the production of H. When water is added to lime, or when about 4 parts of sulphuric acid and 1 of water are mixed, a great degree of heat is produced. The combustion of coal, wood, &c., to which we principally resort for the production of artificial H., is only the chemical union of the oxygen of the air with the fuel. Animal H. is also the result of a chemico-vital process. The oxygen of the air is absorbed into the lungs, and carried by the blood to all parts of the system. In the little capillary vessels it combines with carbon and hydrogen, forming carbonic acid and water, which are expelled in the breath. The process then is a form of combustion, in which the fuel is the waste matter of the body. People inhabiting very cold countries consume great quantities of oily and fatty matter, the carbon and hydrogen of which are doubtless needed for the production, by oxidation or combustion, of the necessary gen of which are doubtless needed for the production, by oxidation or combustion, of the necessary heat of the body. (See RESPIRATION.) Heat is produced by all varieties of mechanical action, as friction, compression, percussion, &c. Fire may be kindled by rubbing together two pieces of dry wood, or by the rapid revolution of wheels upon their axies. Particles of steel from a knife-blade, held upon a rapidly revolving, dry grindstone, are heated to redness and fly off in a shower of sparks. By rubbing two pieces of ice together, Sir H. Davy caused them to melt, an experiment that proved that H. cannot be material. H. is evolved by compression, as when any substance is subjected to the action of a powerful press. If a piece of tinder be placed in a tube closed at one end and the air suddenly compressed by means of a piston working air-tight, the tinder will be ignited by the heat produced. Percussion produces heat. The use of the flint and steel is an example of this: the heat evolved by the collision of the two being sufficient to fuse the small particles of steel that are sufficient to fuse the small particles of steel that are driven off by the blow. A piece of cold iron may be heated to redness by rapid and skilful blows of a hamheated to redness by rapid and skilful blows of a hammer. The experiments of Joule (see Joule's Apparatus) and others demonstrate that whenever force is exerted H. is produced; that the same amount of force under all circumstances generates the same quantity of heat; and that H. and force are mutually convertible into each other. The general effect of imparting heat to bodies is to increase their volume, and, if continued, to change solids to liquids, and liquids to gases or vapors. For a full description of these effects, see Expansion, Liqueraction, and Vaporization. Bodies expand and contract under the influence of H. with an apparently irresistible force, and advantage is taken of this in drawing together, by menns of iron rolds, walls of buildings that have spread force, and advantage is taken of this in drawing together, by means of iron rods, walls of buildings that have spread apart, in putting tires on wheels, and in many other mechanical operations. Experiments have shown that Bunker Hill Monument is caused to vary from the perpendicular by the expansion from the heat of the sun of the sides that are successively exposed to its rays. The expansion of bodies may be taken as the measure of the heat that produces it, and on this principle are constructed heat-measuring instruments. (See Thermometric and Ptrometric, of Communication of H. Heat is communicated by conduction, convection, and radiation. Conduction is the method by which the heat is transmitted from particle to particle of a body, as from the end of a metallic rod placed in a fire, to all other portions of the rod. All bodies may be divided into two classes respecting their power of heat: conductors and

HEAT

firemen exposed to intense heat protect themselves by woollen garments, and we wrap ice in fiannel to keep it from the heated air without. Double doors and windows render apartments warmer by enclosing a quantity of air which does not convey away the heat as resolit as the solid walls.—Liquids and gases are heated by convection. If H. be ap-

plied to the surface of a liquid, we have seen that the lower portions remain unaffected by it. If the heat, however, be applied to the lower part of a vessel containing a liquid or gas, the heated particles become exparticles become ex-panded, and rising, give place to colder ones, which are heated in their turn. In this mantheir turn. In this man-ner all portions of the liquid are heated alike. Fig. 1258 illustrates how the heat applied to the bottom of a vessel of water is diffused through the whole mass. It will be seen that two sets of be seen that two sets of currents are established, the hot particles rising to the top, and the cold ones sinking to the bot-tom. On the same prin-ciple the air of a room is warmed, and for this rea-son the heat should enter the apartment as near the floor as possible.



Liouide

ter the apartment as near the floor as possible. Liquids and gases cool from the surface; as the particles become cold they contruct and sink, while warmer ones rise and take their places. Thick liquids, as soup, oils, molasses, tar, &c., retain their heat longer; since their particles do not so readily move among themselves on account of their greater cohesion.— Radiation of H. By this sunderstood the passage of H. from one body to another, either through a vacuum, the air, or even through a solid. Prof. Tyndall defines radiation as "the communication of motion from the particles of a heated body to the other in which these bodies are immersed." Substances differ very much in their power of emitting H, and the radiating power of the same body varies greatly, accordanier very much in their power of emitting greatly, according to the nature of its surface. Highly polished surfaces are poor radiators, while dark, dull bodies are generally good radiators. It is proved, however, that color alone has no effect on radiation. If a metallic cube, having its sides coated with different coloring-matters, alone has no effect on radiation. If a metallic cube, having its sides coated with different coloring-matters, he filled with hot water, it will be found that the radiation from each will be the same. Vessels designed to retain the heat of their contents should have clean pollshed surfaces, while stoves, or bodies intended to impart H., should be somewhat rough, or not highly pollshed. Radiant H. is thrown off in straight lines, and is reflected, absorbed, transmitted, and refracted, in abedience to the same laws that govern light. It is also susceptible of polarization. That it is reflected, may be proved by placing a hot ball of iron in the focus of a concave reflector, while some gunpowder is placed in the focus of a similar reflector, a number of feet distant from the ball. The powder will be ignited, though, placed at any other point much nearer the ball, it would remain unaffected. If we stand with our back to a bright fire, and hold a mirror in such position that we may see its reflected light, the face receives at the same time the sensation of heat. By an arrangement of mirrors, Archimedes, in his famous defence of Syracuse, was enabled to fire the fleet of Marcellus by the concentrated and reflected heat of the sun's rays. Ediant heat is absorbed readily by surfaces that are good radiators, and but imperfectly by those surfaces that are good radiators, and but imperfectly by those surfaces that are good radiators, water is sooner heated in a kettle whose outside is covered with soot, than in one that is bright and clean. In the experiment above described, with the hot ball, the mirror is not heated, though within a few outside is covered with soot, than in one that is bright and clean. In the experiment above described, with the hot ball, the mirror is not heated, though within a few inches of the hot iron, so perfectly does its polished surface reflect the rays of heat. The air is a yoor absorber of H. The sun's rays pass through it without sensibly increasing its temperature; and it becomes warmed principally by convection from the heated surface of the earth. The sun's heat passes though the air and transparent bodies without loss, but heat from other sources is more or less absorbed by bodies that allow light to pass readily through them. Bodies allowing a free passage of H. through them are called distinguishment, and those that absorb the most of the H. they receive are called athermanous. Rock-salt and air transmit the rays from sources of heat of all kinds, but all other bodies absorb a portion of the heat-rays in the transmit the rays from sources of heat of all kinds, but all other bodies absorb a portion of the heat-rays in the same manner that colored glasses intercept or absorb some of the rays of light. The facts in this connection are very remarkable; we can give space for but few. If we take, as a source of heat, a kettle filled with boiling water, a thin plate of transparent rock-salt will transmit 92 out of 100 rays, while rock-crystal, plateglass, transparent alum, and clear ice, all of the same thickness, will not transmit any. With the exception of rock-salt, the transmissive power of different bedies varies with the quality of the heat, and it differs in the same body with the intensity of the heat. Thus, plateglass which transmits none of the heat from a copper ball heated to 212°, transmits 6 per cent. of that from

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HEAV

to heave the anchor.—To force from or into any position; to throw off.

To heave a cable short. (Naut.) To heave taut on the cable.—To heave down. (Naut.) To pull a ship over on her broadside, to get at a leak or to careen her bottom.—To heave taut. (Naut.) To turn the capetan until the rope or chain-cable attached to it becomes tight.—To heave a ship ahead. To warp a ship ahead by means of cables, &c., when not under sail.—To heave sail.—To heave sail.—To heave sail.—To heave sail.—To heave sail.—To heave a shrain (Naut.) To the sail of a ship when moved backward.—To heave a shrain (Naut.) To use extraordinary exertion in working a windlass or capetan.—To heave out a sail. To nofur it.—To heave sail.—To out a sail. to not sail.—To work a ship in stays. To place her on the other tack.—To heave up. To give; to abandon; to relinquish; as, to be heaved young the sail to the sail with difficulty; slowly and laboriously; as, to walk heaved the thing my in disgnet.—To vomit forth; to eject from the stomach; to puke; to spew out. (Colloquially used.)—To heave my anchor. (Naut.) To raise

or detach it from the bottom; to lift the anchor about

or detach it from the bottom; to lift the anchor about before suilling.
-r. n. To rise; to be lifted or thrown up. — To rise in billows; to swell, as the sea; to rise and swell; to expand, distend, or dilate; to pant; to breathe with labor

or pain.
"Frequent for breath his panting bosom Acc

"Frouent for breath his panting bosom heaves."—Prier.

To keck; to retch; to make an effort to vomit.

To heare in sight. To appear; to come within view; as, a sail hore in sight.—To heave up. To vomit; to throw up; to spew.

-n. A rising or swell; an exertion or effort upward; raising up; a distension, as of the breast; as, the heave of an earthquake.—An effort to raise; a struggle to bring up, as the contents of the stomach.

But after may strains and heaves.

He got up to his saddle caves."—Indibras.

-A fling; a cast; a throw; an onelaught.

-A fling; a cast: a throw; an onslaught. "I'll have another heave at him."—Shaka.

(Geol.) An horizontal dislocation which takes place

(Ged.) An horizontal dislocation which takes place at the intersection of a metallic with another lode.

—pl. (Furriery.) A disease of horses, characterized by difficult breathing and a poculian cough.

Heaven, (hév'n,) n. [A. S. heofan, heofan, which seems to be for heafan, the pp. of hebban, to raise; O. Ger. heren. See Heavel.] That which is heaved up, raised aloft, or elevated; particularly the region or expanse which surrounds the earth, and which appears above and around us like an immense arch or vault, in which are seen the sun, moon, and stars; the firmament; the sky; the atmosphere; — frequently used in the plural.

"You blue heaven above us bent."—Transpoon.

The mansion or abode of God and his angels; the state and place of blessedness in the life to come. As we can have no conception of those joys which never have been and never will be experienced by us here in their full extent, we have of course no words in human language to express them, and cannot therefore expect any clear description of them even in the Holy Scriptures; hence description of them even in the Holy Scriptures; hence, the Bible describes this happiness sometimes in general terms, designating its greatness, and sometimes by various figurative images and modes of speech, borrowed from everything which we know to be attractive and desirable.

The residence of the celestial gods, in a pagan sense,
"Yes, love indeed is light from heaven!"—Byron.

The Supreme Power; the Sovereign of heaven; God; Jehovah; the Omnipotent.

"Heaven's best treasures, peace and health."-Gray. Elevation of state; sublimity; supreme felicity; exalted

"The brightest Asaven of invention."—Shake.

Note. — Heaven is much used in the construction of compound words; as, heaven-aspiring, heaven-guided, heaven-directed, heaven-taught, &c.—
v. a. To place in a state of bliss, like that of heaven; to beatify; to make felicitous. (R.)

"The bird whose nest Is Assessed in the bush of purple hills."—Gerald Masse

In asserted in the hath of purple hills."—Gerald Massey.

Heav'en-born, a. Born from heaven; native of heaven; sprung from the celestial regions; ss, "heaven-born sisters."—Fope.

Heav'em-bred, a. Produced or cultivated in heaven;

mental and the state of the sta

Heav'en-daring, a. Denant to the divine with authority.

Heav'en-direct'ed, a. Raised toward, or pointing to the sky.—Taught by celestial powers; as, "heaven-directed hands."—Tope.

Heav'en-failen, a. Fallen from a celestial state.

Heav'en-kins'ing, a. Apparently touching the sky; as, a "heaven-kinsing hill."—Shaks.

Heav'enliness, n. Exalted grace; supreme excellence.

cellence. Heaven's, a. Resembling heaven; pertaining to heaven; celestial; divine; godlike; angelic; inhabiting heaven; as, the heavenly regions, heavenly bliss, and the like.—Appropriate to heaven or things celestial; perfect; pure; supremely excellent; as, "heavenly eloquence."—Dryden.
—ade. In a manner resembling heaven.

"Where Acavenly pensive contemplation dwells." - Pope. By the agency or influence of heaven.

heavenly things.

Heav'enward, a. and adv. Toward heaven; looking

the same ball it a temperature of 1509. The facts of "To grow warm on the by frementation, or chemical emperature in the content of the property of the proper

"When he was well heated, the younger champion cotand before him." — Dryden. To the passions; — hence, to kindle; to inflame; to warm to excess, as with desire; to make ardent or fervent.

'A noble emulation heats your breast." — Dryden.

-e. s. To grow warm or hot by the action of fire, or the application of caloric: as, the rooms need heating.

sluggishness; torpidity; languor; dulness of mind.—That! which creates labor or difficulty; thickness; moistness.

which creases happy or directly; thickness; moistness, as of earth or air; deepness, as of earth.

Heav'ing, a. A rising, swell, or distension; a panting, surging, or palpitating; as, fearings of the heart.

Heav'isseme, (h'e'r'-sum,) a. Dull; torpid; drowsy;

Heavisome, (hèv'i-sum,) a. Dull; torpid; drowny; gloomy.

Heavy, (hèv'i, a. [A.8. hefg, hefig; D. hevig, violent;
Ger. and Dan. heftig, violent, vehement. The A.8. hefig
is akin to heftan, Goth. huffar, to raise; the idea of great
weight being produced by the difficult yof raising a large
body.] That is heaved or lifted with labor or force;
weighty; ponderous; large in amount; thick; dense;
bulky; difficult to move; as, a heavy rock, a heavy
shower, a heavy load, heavy timber, &c. — Sad; sorrowful; dejected; grievous; afflictive; depressed in nind;
burdensome: oppressive; as, heavy care, heavy spirits, &c. burdensome ; oppressive ; as, heary care, heary spirits, &c

"A light wife makes a Accey husband." - 5 "A light wife makes a keepy hubbach."—Shake.
—Cumbersome: burdensome: hard to sustain, endure, attempt, or accomplish; difficult to bear; as, keery tidings, heavy expenses, a heavy tax, a heavy yoke, &c.—Dull; drowsy; wanting spirit or animation; destitute of life, or rapidity of volition or action; indolent; slow; tedious; sluggish; wearisome; dilatory; stupid; as, a heavy manner, a heavy gait, a heavy book, heavy eyes, a heavy earnon. a heavy sermon.

heavy manner, a heavy gait, a heavy book, heavy eyes, a heavy sermon.

"A heavy, dull, degenerate mind." — Dryden.

—Great; strong; forcible; violent: tempestuous; abundant; copious; swelling or rolling with great force; as, a heavy gale, a heavy sea, a heavy fire of artillery.

—Lying with weight on the stomach; not easily digested; — used in application to food: as, a heavy dinner. — Moist; deep; soft; miry; cloggy; clayey; — said of earth; as, a heavy sil, a heavy road, &c. — Low; deep-toned; loudly resonant; as, a heary clap of thunder, a heavy report of cannon. — Not light; improperly raised; solid; clammy; tenacious; adhesive; as, heavy bread, heavy pastry, and the like. — Of a strong body; potent; ardent; — said of liquors, &c.; as, a heavy wine.

— Gloony; overcast with clouds; dark; threatening; as, a heavy day, a heavy sky. — Pregnant; enceinte; big in the family-way. (a.)

Heavy fire. (Mil.) A discharge of cannon, small arms, &c., kept up with but brief intermission.

Heavy medal. (Mil.) Guns of large calibre, discharging balls of proportionately large size.

(Nors. Heavy is often used in composition to form a compound; as, heavy-laden, heavy-hearted, heavy-eyed.)

"Beaw'y, adv. With great weight. (Used in composition.)"

Come unto me all ye that labour and are heavy-laden." Matt. xi

Heavy, (hēve.) a. Suffering from the heaves; as, a heavy horse.

Heavy-narmed. a. Carrying heavy arms, as a soldier.

Heavy-handed, a. Awkward; clumsy; not adroit

av'y-headed, a. Stupid; dull; obtuse; slow of comprehension.

comprehension.

Heav'y-hearted, a. Oppressed with sorrow; sad.

Heav'y-ladem, a. Laden with a heavy burden.

Heav'y-spar, n. (Min.) Native sulphate of baryta; called also barite, from Gr. barus, heavy. It is found in crystals that are usually tabular, also massive. Its color is white, but sometimes tinged yellow, red, blue, or brown. Some varieties, from the presence of carbonaceous matters, are fetid when rubbed. Sp. gr. 43-48. Comp. Sulphuric acid 343, baryta 657. H. S. cocurs commonly with the metallic orea and is found in 43-48. Comp. Sulphuric acid 343, baryta 657. H.S. occurs commonly with the metallic orea and is found in many parts of the U.S., as Cheshire, Conn., Hatfield, Mass., Perkiomen, Pa., Pillar Point, N. Y., &c. At Dufton, Eng., fine crystals are found, one of which weighed 100 lbs. It is largely used in the adulteration of white lead. When very white, the baryts improves the color of the lead and likewise preserves it from the action of vapors of sulphur which speedily blacken it.

Hensy, (hčzt.) a. [A. S. Adz.] An English provincialism for hourse: wheezing.

Henblardswälle, in Kentucky, a post-village of Hen-

Heb'bardsville, in Kentucky. a post-village of Hen

Hebbardsville, in Ohio, a post-village of Athens co.

Hebbardsville, in Ohio, a post-village of Athens co, about 70 m. S.E. of Columbus.

Hebdom'adal, Hebdom'adary, a. [L. Lat. hebdom'adalis, from Gr. hebdomai, seven days, from hepta, seven; Fr. hebdomadaire.] Consisting of seven days; occurring every seven days; weekly.

Hebdom'adary, n. [Fr. hebdomadier.] (Eccl.) In the Roman Catholic Church, a member of a chapter or convent, whose week it is to officiate in the choir.

Hebe, (hê'bê.) (Myth.) The Greek goldess of youth, the fair daughter of Jupiter and Juno—answering to the Latin goldess Juentas. She was originally the cupbearer to the gold, but being superseded by Ganymele, she was employed to harness her mother's peacocks, and prepare Juno's chariot. She subsequently became the wife of Hercules, and the mother of Alexiares and prepare Juno's chariot. She subsequently became the wife of Hercules, and the mother of Alexiares and Anlatus.

He'ber, Eber. (Script.) The son of Salah, and father of

He'ber, Eber, (Sriph.) The son of Salah, and father of Phaleg, B. 1281, B. c.; b. at the age of 464. The name of Hebrews given to the Jewish nation, is derived from him. He'ber, in Uah, a city, cap. of Wahsatch co., about 45 m. S. E. of Salt Lake City. Pop. (1895) 1,682.

Hébert, Jacques Renk, one of the Jacobin leaders of the French revolution, commonly called Fère Duchéne, from the name of his journal, B. at Alençon towards 1755, and executed on the 24th of March, 1794. He was the most brutal journalist of the period, and played a leading part in every conspiracy against the establishment of law and order, and in the detestable massacre of September, 1792. On the 10th of August preceding he had been installed among the magistrates of the people

at the Hôtel de Ville, and from this period he labored to exalt the municipal authority above that of the con-vention. The Girondins were sacrificed in the struggle vention. The dirondins were sacrificed in the struggle which ensued, but Robespierre and the Committee of Public Safety only awaited a proper opportunity, and arrested the party of Hébert at the very moment they were threatening a new insurrection. The followers of Hébert and Chaumette, generally called "Hebertista," were atheists, and their leaders were as obscene and cruel in outward conduct as they were irreligious in heart. The charge on which they were executed was that of endeavoring to destroy the republic by immorality.

Heb'etate, r. a. [Lat. hebetare; Fr. hébéter.] To dull;

to blunt; to make obtuse; to stupefy; as, to kebetate the understanding.

—Obtuse; blunt; dull; deadened.

Hebeta'tion, n. [Lat. hebetatio.] Act of making obtuse, dull, blunt, or stupid.—State of being blunted, dulled, or stupefied.

dulled, or supened.

He'betine, n. (Min.) Same as WILLEMTE, q. v.

Hebra'le, Hebra'leal, a. [Fr. Hebraique, from
L. Lat. Hebraicus.] Relating or pertaining to the Hebrews; denoting the language of the Hebrews.

Hebra'leally, adv. After the manner of the Hebrew

language. He braism, n. [Fr. Hébraisme.] A Hebrew idiom, or peculiarity of speech.

He'braist, n. One versed in the Hebrew language or

literature

Hebrais'tie, a. Pertaining to, or resembling, Hebrew.
He'braise, v. a. To make Hebrew or Hebraistic; to render into the Hebrew tongue.
—e. n. To speak Hebrew; to conform to Hebraic speech,

manners, or customs.

manners, or customs.

Hebrew, (hê'brs.) s. [Fr. Hébreu; Heb. Eber, both
a proper name and a name denoting region, opposite
region, or country beyond the Euphrates.] One of the
descendants of Heber, or Eber; a Jew; an Israelite.—

Belonging, or having reference to the Hebrews; as

the Hibrwo rites and ceremonies.

He brewess, n. A female Israelite; a Jewess.

He brew Language and Literature. The

Hebrew is one of the oldest and most remarkable of He'brew Language and Literature. The liebrew is one of the oldest and most remarkable of known languages, and is of especial interest to us, as being that in which the Old Testament Scriptures were criginally written. It belongs to the so-called Canaanitish branch, or chief division of the Semitic family of languages, the other branches being the Aramsic and Arabian. It is a matter of dispute whether the H. language, as found in the earliest books of the Old Testament, is the dislect which Abraham brought with him into Canaan, or whether it is the common tongue of the Canaanitish nations, which Abraham only adopted from them, and which was afterwards developed to greater fulness under the peculiar moral and political influences to which his posterity were exposed. There is every reason to believe, however, that Abraham, on his entrance into Canaan, found the language then prevailing among the different tribes inhabiting that country to be in, at least, dialectical affinity with his own. For a long time, down to very recently, H. was universally regarded as the original language of the human race, coeval with its beginning; and that traces of it were discoverable in all subsequent tongues. The origin and progress of the Hebrew language, until it became the language of Abraham himself was Aramsic, and became idialect of Abraham himself was Aramsic, and became language of Scripture, in the time of Moses, it is impossible to determine. According to some, the vernacular dialect of Abraham himself was Aramaic, and became gradually changed by the influx of Egyptian and Arabic words, to the time of Moses. From the time of Moses down to the Captivity, a period of a thousand years, notwithstanding the existence of some isolated, but important archaisme, as in the form of the pronoun, &c., it underwent but little change. So far is this the case, that it has been used as an argument against the received antiquity of the Pentateuch. The causes, however, are to be sought in the isolated and stationary character of the Hebrews themselves, and the genius of the language, as little susceptible of change. In even the earliest canonical books of this period, the language appears in a state of mature development, with precision of syntactical arrangement and great regularity of forappears in a state or mature development, with precision of syntactical arrangement and great regularity of formation. One of the most remarkable features in the later language of this period is the difference which distinguishes the diction of poetry from that of prose. The language of simple narration and history limits itself to tinguishes the diction of poetry from that of prose. The language of simple narration and history limits itselfto the forms necessary to common purposes; the poets, on the other hand, made use of universal words and flexions, and harmonic arrangement of thoughts, as seen in the parallelism of members in a single verse, and in the strophic order of longer periods. The rhetorical language of the prophets moves in a more free rhythm of thought, and in longer sentences than the poets, but, in other respects, especially in its palmy state, falls in very much with it. The decline and corruption of the Hebrew language dates from the Babylonish captivity. From the time of the Assyrians, the Aramaic madegreat inroads upon the Hebrew; and after the power of the Israelites had been broken by long wars and captivity, the Aramaic, owing to the influence of foreign authority and foreign colonists, spread rapidly. After their return from the Captivity, Ezra and Nehemiah took care that the Hebrew, in its ancient form, should be made more familiar to the people; and they both wrote in Hebrew. Among the more strict Jews, the Hebrew was still retained, although within narrow limits, as appears from Daniel and the Maccabess. Still the progress of the Aramaic was not to be repressed; and if the ancient language was occasionally imitated, and if the ancient language was occasionally imitated,

there was always a considerable admixture of the foreign idiom. From the second century on, the Hebrew was known only to the learned, while the Aramaic became the vernacular of the country. Yet, after it ceased to be the language of the people, it did not become unknown to them, as it was read in the Bible in the synagogue, and also frequently made use of by the learned among them to communicate information to those of their own faith. The earliest known character in the Hebrew writing bears a very strong resemblance to the Samaritan, both being evidently derived from the Phoenician. During the Babylonish captivity, they received from the Chaldees the square character in common use, and in the time of Eara the old Hebrew MSS. were copied in Chaldee characters. The origin of the vowelceived from the Chaldees the square character in common use, and in the time of Eura the old Hebrew MSE, were copied in Chaldee characters. The origin of the vowel-points is usually assigned to the 7th cent. of our era, and arose from the efforts made by the learned Jews to preserve the pronunciation of their language, when it ceased to be a spoken tongue. The minute and complex system which we now possess was gradually developed, from a few indispensable signs, to its present elaborateness. There are three kinds of Hebrew alphabets now in use,—the square, or Assyrian, that commonly used in print; the rabbraical, or mediswal, that used chiefly in commentaries and notes; and the currier, which is employed in writing. There are no capital letters, and the writing is from right to left. The alphabet commists of twenty letters, or consonants, the vowels being expressible that the same of the very numerous. The Hebrew is deficient in grammatical technicalities, especially in moods and tenses of the verb, and, consequently, also somewhat in precision; but in euphony, simplicity, brwity, variety of signification, and power of poetical expression, it is hardly excelled by any tongue. The Hebrew literature is of considerable antiquity, and has claimed a high degree of attention on account of its connection with our religion. With the Hebrewa, as with every other people, poetry was cultivated before prose: and in the songs of Moses and Deborah we have the earliest specimens of poetry. The Jews were prefumently a musical people. with our religion. With the Hebrews, as with every other people, poetry was cultivated before prose: and in the songs of Moses and Deborah we have the earliest specimens of poetry. The Jews were preëminently a musical people. Exerything calculated to excite the multitude was expressed in song; and young men and maidens emulated each other in beautiful odes at their festive gatherings. The art of poetry was taught in the schools, and their religious exercises, and worship was always conducted with singing and instrumental performances. Hebrew poetry is remarkable for its wealth of imagery, not only in the way of illustration, but also of metaphor, substituting the image for the object to be described. There is also a great desire for the symbolic, giving to abstract ideas a concrete form, and investing even inanimate objects with thoughts, feelings, and speech. Hebrew poetry is sententious, each stama er couplet being complete in itself: so that they would admit of increase or diminution, or of a different arrangement, without destroying the unity of the whole. The poetry of the Hebrews formed so much the groundwork of their higher thinking, that it gave coloring to their historical writings, and affected their philicsophical speculations. Hence arose those anthropomorphisms which to us are frequently so offensive, but which naturally connect themselves with the religious views of the Hebrews. One peculiarity of their poetry is parallelism, or the regularly placing beside each other symmetrically constructed propositious. The symmetry, however, is not so much external as ideal, being the same thought repeated several times in other words, or apprehended antithetically from opposite sides. All attempts to discover rhyme or metre in ancient Hebrew poetry have failed; but this may probably arises from our ignorance of the ancient pronunciation. Lyric poetry probably prevailed under David, to whom are ascribed numerous examples of song and elegy. Strong religious feelings distinguish the spirit and subject of these gal, Zecharian, and mainth. Inta much must have been lost from the treasures of Hebrew literature, which was very rich, particularly in the age of Solomon, is evident from passages in the Old Testament itself. Of many of the works of the prophets, particularly those known as the minor prophets, we evidently possess only fragments. The period immediately after the return from the Balvilonish captivity was of the highest importance to liebrew literature. Learned men were appointed to make collections of the ancient writings! and the sacred Scriptures were authenticated, and arranged into a canon. When Judea was a province under the successors of the Macedonian hero, Greek refinement, science, and philosophy spread among the Jews, and a number of errors crept into their religion, and led to the formation of different sects among them; as the Pharisees, Saddneese, Essence, &c. The Greek language became common in Judea, and the Septuagint was used in the synagogues. During this period, and under the Romans, their literature made great progress, from the influence of the great succession. great progress, from the influence of the great successive schools, the most famous of which was that of the great Hillel, president of the Sauhodrim. The philophila progress of the Sauhodrim.

sophical book of Ben Sirach, and the first book of the Maccabes, are the products of the earlier part of this period; and a number of the other apocryphal writings, whose date is unknown, may probably be referred to the same time. The simultaneous literary activity of the Jews in Africa is evinced by their numerous contriwhose date is unknown, may probably be referred to the same time. The simultaneous literary activity of the Jews in Africa is evinced by their numerous contributions to Hellenistic poetry and history (Jason, Alexander, Polyhistar, Ezekiel, &c.), and especially to Platonic philosophy, (Aristobulus, Philo, &c.) The Roman conquest, and the persecutions which naturally followed exerted a very pernicious influence upon literature. After the desolation of Jerusalem, various other places in Palestine became distinguished for their schools of religious science, principally under the lead of the presidents of the Sanhadrim. The work of collecting, elucidating, systematizing, and further developing the desions of the oral law, was also carried on; and these were finally converted into a written code, or compendium of teachings (Mishad, by the patriarch Jehudah the Holy, and his school, during the mild reign of the Antonines. To these were added the partly supplementary, partly explanatory works, Tosefta, Mekhilta, Safra, and Sifre. These works became the basis of religious study in the subsequent three centuries, in Palestine, as well as in Babylonia, where various flourishing schoole existed. After new persecutions by the Christian emperors, which destroyed the schools (355) and the patriarchate (429) of Palestine,—and by the Persian kings in the latter part of the 5th century, which destroyed the schools of Babylonia,—the results of these studies were collected, though in chaotic disorder, in the two Gemarso or Tainuads (q. v.),—the Palestinian and Babylonian; other extant products of the time were various sthical treatises; historical, legendary, and cosmogonal writings; stories, prayers, &c. The Chaldee, often with an admixture of liebrew, was now generally used in literary works, while the people used the various languages of the countries in which they lived. Under Mohammedan rule, particularly under the later caliphs, who favored science, the Jews enjoyed comparatively mild treatment, and their schools revived, pa in Babylon. Numerous works, historical and ethical were composed; the critical notes of the Masors, and the Targum of Jerusalem elaborated; Talmudical compendiums written: and medical, astronomical, and linguistic studies pursued. Scientific and literary pursuits also flourished among the Jews in Africa, who, with slight interruptions, enjoyed peace under the Saraconic princes. The Arabic was the language generally used by scholars. In the feudal states of Europe, the Jews generally enjoyed but few privileges, and were frequently subjected to the most cruel persecutions. In Spain, however, under the Moorish princes, they enjoyed civil rights, and nearly to the same extent under the Christian kings; and here they made great progress in iterature and science. The most distinguished man of this time was Moses Maimonides, renowned as a philosopher, as well as a writer on law. Since that time the Jews have advanced with the surrounding nations, and have produced a number of distinguished men in almost every department of literature and science.

He'brews, (Epistile to the.) (Script.) One of the canonical books of the New Testament, the object of which was to prove to the Jews, from their own Scriptures, the divinity, humanity, atonement, and intercesion of Christ, particularly his preëminence over Moses and the angels of God; to demonstrate the superiority of the gospel to the law, and the real object and design of the Mosaic institution; to fortify the minds of the Hebrew converts against apoetasy under persecution, and to engage them to a deportment becoming their

of the Mosaic institution; to forthy the minus of size Hebrew converts against spectasy under persecution, and to engage them to a deportment becoming their Christian profession. In this view, the epistle furnishes a key to the Old Testament Scriptures, and is invaluable as a clear elucidation and an inspired, unanswerable demonstration of the doctrine of the great atoning Sacrifice as set forth in the Old Testament institutions. The not as set forth in the Old Jestanden institution. The name of the writer of this epistle is nowhere mentioned. The majority of critica, however, refer it to the apostle Paul. It is also believed to have been written in Greek,

ranl. It is also believed to have been written in Greek, at Rome, in about a. D. 63.

Hebrieiam, (hē-brish'an,) n. A Hebraist; one learned in the Hebrew language.

Hebrid'eam, Hebrid'iam, n. (Geog.) A native or inhabitant of the Hebrides.

inhabitant of the Hebrides.

—a. Relating or pertaining to the Hebrides.

Hebrides, (hebrides,) or Western Islands. [Lat. Boules Insule.] A cluster of rugged and mountainous islands, on the W. coast of Scotland, in the Atlantic, extending about 180 m. in length, with an average width of 10 to 13 m. from the Butt of Lewis on the N., to the small isle of Sana, on the coast of Cantire. The various tracts or clusters of rocks, thus detached from the mainland, number in all over 300, of which 86 are inhabited. Lat. 55° 35 to 58° 3V N., Lon. 5° to 8° W. Area. 2.750 a.m. The principal of these islands are Lawis Herris. Lat. 55 ° 35 to 58° 34° N., Lon. 5° to 8° W. Area, 2,750 sq. m. The principal of these islands are Lewis, Harris, N. Uist, S. Uist, Beubecula, Skye, Eig, Muck, Coll, Mull, Lismore, Staffa, Iona, Scalpa, and Colonsay. Manuf. Kelp, whisky, and cotton stuffs. The ancient Gaelic is still spoken in these islands, and it is certain that they were ruled by their own Pictish princes until the 8th century, from which time they were, during four ensuing centuries, the haunts of pirates who infested the neighboring mainland. By the gradual consolidation of the royal power, they were, though long lawless and turbulent, gradually brought under control, and the abolition of heritable jurusdictions, in 1748, finally overthrew the influence of the independent chieftains. Prp. 118,500.

He bridges, (New.) a group of islands in the S. Pacific, discovered by Quitos, in 1506. Capt. Cook, who surveyed most of them in 1773, gave them their name, as being the most W. of the islands of the Pacific. They

extend N.W. and S.E. over 375 m., from Lat. 13° to 20° S., and Lou. 180° to 170° E. Area, 4,200 sq. m. The soil in the valleys is fertile, but the islands are mostly mountainous, and some have active volcances. Aircora, our feet most fertile, disappeared in 1871, leaving no trace. They were made a British coaling-station in 1880, practically an annexation to that kingdom. Pop. 130,000, mostly Panuans.

They were made a British bossing.

They were made a British bossing.

Tically an annexation to that kingdom. Pop. 136,000, 1 mostly Papuans.

Rebrons, (Anc. Geog.,) a town of Palestine, in the tribe of Judah, built, according to Scripture, "seven years before Zoan in Egypt" (Num. xiii. 22), and called originally Kirjath-arbs (Judge: 1.10), was a well-known town when Abraham "came and dwelt in the plain of Mamre, which is in Hebron," B. C. 1917 (Gen. xiii. 18). It was the scene of the death of Sarah, B. C. 1859 (Gen. xxiii. 2), and of her sepulchre in the cave of Machpelah, purchased by Abraham, of Ephron the Hittie, for 400 shekels of silver (Gen. xxiii, 3-20). Hebron was taken by Joshua, who "destroyed it utterly, and all the souls that were therein," B. C. 1450 (Josh. x. 36, 37), and bestowed its fields and neighboring villages upon Caleb, "because that he wholly followed the Lord God of Israel," B. C. 1444 (Josh. xiv. 13-15), but gave the town to the Levites for a city of refuge, B. C. 1443 (Josh. xxi. 13). David established his government here, B. C. 1047, and ruled here "seven years and six months" (2 cm. v. 5). Hebron rebuilt after the Captivity, B. C. 336. xxi. 13). David established his government here, n. o. 1047, and ruled here "seven years and six months" (2 Sam. v. 5). Hebron, rebuilt after the Captivity, n. c. 535, was seized by the Edomites, from whom it was wrested by Judas Maccabeus, n. c. 163-160. It was burned by an officer of Vespasian soon after the capture of Jerusalem, Sept. 8, 70, and was taken early in the 12th century by the Crusaders, from whom it reverted to the Moslems in 1187.

Moslems in 1187.

Hebrom, in Connecticut, a post-town and twp. of Tolland co., 20 m. S.E. of Hartford. Pop. (1897) about 1,100.

Hebrom, in Georgia, a post-village of Washington co., about 20 miles S.E. of Milledgeville.

Hebrom, in Illinois, a post-township of McHenry co., about 50 miles N.W. of Chicago.

Hebrom, in Indiana, a post-town of Porter co., about 14 m. S.W. of Valparaiso. Pop. (1887) about 750.

Hebrom, in Iowa, a post-village of Adair co., about 40 m. S.W. of Des Moines.

m. S.W. of Des Moines.

Hebron, in Maine, a post-town of Boone co.

Hebron, in Maine, a post-township of Oxford co. about 40 m. N.W. of Portland. Pop. (1897) about 620.

Hebron, in Missessota, a village of Nicollet co., on the Minnesota river, about 14 m. S.W. of 8t. Peter.

Hebron, in New Hampshire, a post-town of Grafton co., about 30 m. N.N.W. of Concord. Pop. (1890) 246.

Hebron, in N. Y., a post-town and township of Washington co., 54 m. N.N.E. of Albany. Pop. (1897) 2,140.

Hebron, in Ohio, a post-village of Licking co., about 27 m. E. of Columbus.

Hebrom, in Ohio, a post-villege of Licking co. about 27 m. E. of Columbus.

Hebrom, in Pennyleania, a post-township of Potter co., about 6 miles N. of Coudersport.

Hebrom, in West Carolina, a P. O. of Spartanburg co. Hebrom, in West Carolina, a P. O. of Spartanburg co. Hebrom, in West Virginia, a post-office of Pleasants co. Hebrom, in Wisconsin, a post-township of Jefferson co. Hebrom ville, in Mass., a post-village of Bristol co. Hec'ate. (Myth.) A goddess, not mentioned in Homer, but by later writers apoken of as a daughter of Perses and Asteria. Her name is the feminine form of Hecatos (the Far-shooter), applied to Phoebus, Apollo, and Helios (the Sun). In the Homeric Hymn, she aids Demeter (Ceres) in her search for Persephoné (Proserpine); in other versions of the myth she remained with the latter in the nether world. Statues were set up to her in market-places, and especially at cross-roads. In works of art she is represented sometimes as a single being, sometimes as a three-headed monater.

Hec'atolite, n. [4r. hekata, the moon.] (Min.) Moonstone, a variety of Ouncolss, q. originally consisting of the sacrifice of a hundred beasts of the same kind, at a hundred altars, by a hundred priests or sacrificers. Pythagoras is said to have sacrificed a hecatomb of a hundred oxen to the Musee, in joy and gratitude for his having discovered the demonstration of the 47th proposition of the first book of Euclid. Although a true hecatomb consisted of a hundred oxen, yet, in the time of

tion of the first book of Euclid. Although a true heca-tomb consisted of a hundred oxen, yet, in the time of Homer, the word had lost its real etymological meaning; it merely meant a great public sacrifice. Thus Riad, an allusion is made to a hecatomb of twelve to another of oxen and rams: and to another of fifty. In modern language, any public sacrifice of a large number of victims.

number of victims.

Hecatom pedion, n. [Gr. ekatompedos.] (Arch.) A temple one hundred feet in length. (R.)

Hecatom'stylom, n. [Gr. ekatom, hundred, and stylos, pillar.] (Arch.) A temple with a hundred pillars.

Heck, n. [A.S. häca: Scot. hack; Swed. häck, a manger.]

A kind of lobby, divided from the fireplace of old houses. (Prov. Eng.)—In some parts of England, a latticed door; also, the latch of such door.—A rack or crib for cattle, &c., to feed at.—A contrivance of lattice-work for catching fish.—An English archaism for the bend or sinuous turn of a river.

(Wraring.) An apparatus through which the threads

of warps pass from the bobbins to the warping-mill, and by means of which they are separated into sets for the

Half-heck, the lower half of a door, (Prov. Eng.) Heck-board, the board laid in a cart's bottom. — Heck-frame, the frame-work which holds the heck in warping Leck'er, FRIEDRICH, B. 1811, was one of the principal leaders in the Badish insurrection of '48, and member of the provisional govt., afterwards colonel in the U. S. A. during the late Civil War. D. 1881.

suppton co., about 55 m. N. of Philadelphia.

Hecla, (hck'la.) a volcanic mountain in the S. of Iceland, about 20 m. from the coast, is of a conical shape (Fig. 1259), and stands isolated. Its snow-clad summit is 5,110 feet high. The principal crater, when visited by Sir George Mackenzie, was about 100 feet deep, and contained a large quantity of snow in the bottom. There are many small secondary craters near the summit. The sides of the mountain are broken by numerous deep ravines, forming channels for mountain-torrents which are produced by the melting of the snow. The principal rocks are lava and basalt, covered with the loose stones, scorize, and ashes ejected from the volcano. The



Fig. 1259. — MOUNT HECLA, (ICELAND.)

view from the summit is very desolate and wild. "Fan-tastic groups of hills. craters, and lava, leading the eye to distant snow-covered jokuls: the mist rising from a waterfall; lakes emissomed amid bare, bleak moun-tains; an awfui and profound slumber; lowering clouds; marks all around of the furious action of the most destructive of the elements, give to the region a character of desolation scarcely to be paralleled." There are nearly fifty recorded eruptions of this volcano, the one of 1783 fifty recorded eruptions of this volcano, the one of 1783 leing the most terrible; the matter then thrown out filled up mountain-glens 600 feet deep, as well as many lakes and river-courses. In the eruption of 1845-6, as stream of lava from the large crater was 50 feet deep and 1 mile wide; stones of enormous size were also ejected, and the ashes horne as far as the Orkney Isles.

Hee'la (or Heckly) Works, in N. York, a post-village of Oneida co., about 105 m. W. by N. (f Albany.

Hee'tare, n. [Fr., from Or. hekaten, hundred, and Lat. area.] A French land-measure = 100 sq. metres=11,960 yards = 2,471 acres.

area.] A French land-measure — 100 sq. merice=11, swoyards = 2,471 acres.

Hee'tie, Hee'tical, a. [Gr. hektikos — hexis, habit of body, from echō, hexō, to have.] Habitual; constitutional; pertaining to hectic; as, a hectic fever.— Affected with hectic disease or fever.

" No kectic student scares the gentle maid." - Taylor

"No hettic student scares the genite maid." — Taylor.

"n. (Med.) A protracted or habitual fever, but generally applied to that intermittent fever which usually occurs in the latter stages of consumption. It is commonly to characterized by morning and evening paroxysms, with intermediate remissions; but the evening paroxysm is usually the most marked. Towards evening, as the paroxysm comes on, the listless, languid manner which prevailed during the day becomes changed, the eyes brighten, the conversation becomes animated, and the checks assume a beautiful flush. This may continue for five or six hours, when the manner and appearance checks assume a beautiful flush. This may continue for five or six hours, when the manner and appearance of the patient become entirely changed, the hectic flush passes away, and a chill spreads over the entire frame, followed by a profuse perspiration, which leaves the patient utterly prostrate. Day after day the sad story is repeated, the patient is gradually reduced in body and strength, and at length dies exhausted. — See Consumerox.

Hec'tically, adv. Habitually; constitutionally; in

a heetic manner.

Hee'togram. Hee'togramme, n. [Fr. heelogramme, from Gr. ekalon, and gramma, a gramme.] A

French measure of weight = 100 grains = 1,5434 English grains.

Hectolitre, (hek-to-le'tr.) n. [Fr., from Gr. hekaton, and

Hectolitre, (hek-to-le'tr.) n. [Fr., from Gr. hekaton, and litra, a pound. See Litrae.] A French measure of volume = 100 litres = 6,1028 English cubic inches.

Hectome'ter, Hectom'eter, n. [Fron Gr. hekaton, and metron, measure.] See Hectowethe.

Hectometre, (hik-to-ma'tr.) n. [Fr., from Gr. hekaton, and metron, measure. See Metrae.] A French measure of length = 100 metres = 3,937 English inches.

Hector, the bravest of the Trojans, the son of Priam and Hecuba, and husband to Andromache. During the Trojan war he fought gloriously against the most redoubtable of the Greek warriors, Ajax and Diomede, and killed a number of their best leaders; among others Patroclus, the friend of Achilles, who was rouse! into

activity in order to avenge his death, and who, after charing H. three times around the walls of Troy, pierced him with his spear. His body was thrown to the dogs to be devoured, but his father supplicating Achilles, it was given up to him, and was buried in Troy, where funeral sacrifices were offered to him as a hero.

Hec'Or, n. [From Hector, the son of Priam, and leader of the Trojans.] A bully: a swash-buckler; a blusterer; a noisy turbulent follow: one who worses browkests.

HEDG

a noisy, turbulent fellow; one who worries, browbeats

"We 'll drink to this celestial hector." - Prior.

To threaten; to bully; to browbeat; to act toward

"Fertune's a drudge, when Acctor'd by the brain."- Dryde To play the bully; to be insolent; to bluster; to

act in a browbeating manner.

"Don Carlos made her chief director
That she might o'er the servants Acctor." — Swift.

Hec'tor, in Indiana, a post-village of Jay co., on the L. E. & W. R.R.

E. & W. R.R.

Hec'tor, in New York, a post-town and township of
Schuyler co., on the Lehigh Valley R. R. and bordering
on Seneca Lake, about 15 m. W. of Ithaca.

Hec'tor, in Pennsylemia, a post-township of Potter co.

Hec'torism, m. Practice of a bully or hector.

Hec'toriy, a. Blustering; bullying; resembling a

Hec'toriy, a Bustering; bullying; resembing a hector.

Hectostere (hik'to-sir), n. [Fr. from Gr. hekuton, and stereos, solid.] A French measure of capacity or bulk — 100 cubic metres — 3531-741 English cubic feet.

Hed'dings, in New York, a P. O. of Tompkins co.

Hed'dings, in New York, a P. O. of Tompkins co.

Hed'dile, n.; pl. Heddles, (Waaring.) One of the sets of parallel double threads which are arranged in sets, and, with their mounting, compose the harmess employed to guide the warp threads to the lattle or batten; heald. Heddle-cy, is the eye or loop formed in each heddle to receive a warp thread.

Hede'embergite, n. (Min.) A variety of Pyroxene, q. r., containing lime and protoxide of from.

Hedeo'ma, n. [Gr. hedus, sweet.] (Bot.) A genus of plants, order Lamiacez. The species H. pulgrindes, the Pennyroyal, is a small, strong-scented herb, half a foot high, common in dry pastures in the N. and Middle States, and flowering all summer. It is much used as an emmenagoue, and also occasionally as a stimulant and carminative.

Earnmanus.

Hed'era, n. [Lat., ivy.] (Bot.) The Ivy, a genus of European plants, order Araliaces. H. helix is the well-

k nown climbing evergreen which grows over old trees and walls. The gardeners of the last century frequently trained it into fancitrained it into fanci-ful shapes, as of hu-man figures and birds, on skeletons of wire-work. Its black berries increase during the winter, and ripen in April, fur-nishing food for wild pigeons and song-birds in the spring. Sheep eat the leaves



birds in the spring.
Sheep eat the leaves
in severe weather.
Medicinally, the 'vy
is reputed to be diaphoretic, and its berries are emetic and
purgative. There are
several varieties in our gardens.

Hederacious. (hider-ā'shus,) a. Resembling, relating to, or producing 'vy.
Hed'eral, a. Pertaining to, or composed of ivy.
Hederfferous, a. [Lat. hedra, ivy, and ferre, to
bear.] Producing ivy.

Hed'erose, a. Belonging to ivy; abounding in ivy.

Hed'erose, a. Belonging to ivy; abounding in ivy.

Hedge, (hij.) n. [A.S. hegr.] The best class of fence that
we have, with the exception of a stone or brick wall, and
one of the most lasting safeguards against treepassers.
A hedge is constructed of most kinds of trees and shruls,
but the best is, undoubtedly, one which is made of shruls
of a thorny nature, and of these, holly is the best plant
for the purpose. The method of procedure by which
hedges are formed is very simple, and consists, after the
trees or shrubs have been planted, in cutting off their
tops, and shortening their side-branches, by which means
an undergrowth of smaller branches is obtained, and the
hedge made thick and spreading; a compact mass of and shortening their subcrimines, by which means an undergrowth of smaller branches is obtained, and the hedge made thick and spreading; a compact mass of regetation spreading in every direction, and nearly impenetrable. With holly hedges, however, more pains must be taken, as the ground has to be carefully prepared by manuring and trenching; the holly-shoots must also be judiciously planted after midsaummer, when the soil is moist from recent rain-falls, and a convenient spacemust be left between the plants, in order to enable them to spread their roots, and derive ample nourishment from the soil. On account of its slow growth, holly takes a long time to mature into a good hedge, and consequently it is not so often used for the purpose as it would otherwise be. Yew forms a close and durable hedge, when well and carefully clipped, and for gardens and nurse Ty-grounds. Where shade is required as well as protection, a yew hedge is preferable to any other. Beech, time, and hornbeam are used when high hedges and strong in case are required; also elder, which is such a rapid grower, that 'Hedge'row, n. One who makes or repairs hedges. a complete hedge is soon obtained after planting; it has also got another merit, and that is, that cattle do not eat its branches. In gardens, private hedges more common than those composed of other shrubs, and in fields and grounds, the Osage orange, and after it the hemlock, and arbor vitee, are the hedges which are by far the most generally adopted. In France and Holland, hedges are often trained along stakes and rods, which have been placed for the purpose; these hedges have a very light and pleasing effect, from their neatness and regularity. Hedge'sville, in New York, a P. O. of Steuben co. Hedge, v. a. To inclose with a hedge; to fence with a thicket of shrubs, thorns, or small trees; to separate by a hedge; as, to hedge a garden.—To obstruct with a hedge, or to hedge in any manner; to interpose, as with a barrier.—To fortify; to guard; to protect; to sacrier of River. To fortify; to guard; to protect; to sacrier of River. To fortify; to guard; to protect; to sacrier of River. To fortify; to guard; to protect; to sacrier of River. To fortify; to guard; to protect; to sacrier of River.

a barrier.—To fortify; to guard; to protect; to encircle for defence; to hem in.

"There 's such divinity doth hedge a king."-Shake.

-To inclose for preventing escape; — often before in.
"That is a law to hedge in the cuckeo."—Locke.

To hedge a bet. (Sports.) To bet for and against; that is, after making a bet on one side, to make a counter bet on the other side, thus guarding against much loss, let the result be what it may.

e. n. To hide one's self, as in a hedge; to skulk; to slink out of sight. (Sports.) To bet on both sides; as, I have hedged on

Hedge'-bill, Hedg'ing-bill, n. A bill-hook;

cutting-hook used in topping and dressing hedges. **Hedge'-born**, a. Of low birth, as if born under thedge; obscure; outlandish; as, "a hedge-born swain."

Hedge'-bote, n. Materials for the repairs of hedges

Hedge creeper, n. One who skulks under hedges for evil purposes.

Hedge hog, n. (Zoll.) The common name of the genus for evil purposes. Hedge hog, n. (Zoži.) The common name of the genus of insectivorous quadrupeds Erinaceus, all the species of which belong to Enrope and Asia. The common H, though having a formidable appearance, is one of the most harmless creatures in existence. It may be thus described:—The back covered with sharp, strong spines, about an inch long, with the power of rolling itself up in a ball by means of appropriate muscles; muszle pointed; tail short; and each foot five-toed, and armed with robust claws; the head is very conical; the ears short, broad, and rounded; the eyes prominent; the body oblong, and conical above; and the legs short, almost naked, and of a dusky color. It is about 10 inches in length, and its color is generally a gray-brown. Itselose covering of sharp spines, which are firmly fixed in its tough skin, and sufficiently elastic to bear great violence without breaking, protects it from falls or blows, and as effectually secures it from the attacks of an enemy; for when molested, it instantly rolls itself into a kind of ball, and presents nothing but its prickles to the foe; and the more the animal is irritated and alarmed, the more firmly does it contract itself, and the more stiff and strong does its bristly panoply become. Thus rolled up, it patiently waits till the danger is past. The cat, the weasel, the ferret, and the marten soon decline the combat; and though a well-trained wire-haired terrier, or a fox, may now and then be found is past. The car, the weash, the terret, and the marten soon decline the combat; and though a well-trained wire-haired terrier, or a fox, may now and then be found to open a H., it generally remains impenetrable and secure. From this state of security, in fact, it is not easily forced, scarcely anything but cold water obliging it to



Fig. 1261. — THE HEDGEHOG.

unfold itself.—The usual food of the H. is beetles, worms sings, and snails; it is also said to devour fruit, the roots of plants, and certain other vegetable substances, while it shows itself not so creatricted as has been thought in its choice of animal food—eggs, frogs, toads, mice, and even snukes occasionally, serving for its repast. The M. is strictly nocturnal, remaining coiled up in its re-H. is strictly nocturnal, remaining colled up in its retreat during the day, and wandering about nearly all the night in search of food. It generally resides in small thickets, in hedges, or in ditches covered with bushes, making a hole about 6 or 8 inches deep, which it lines with moss, grass, or leaves. The hibernation of the H. is undoubted; although it lays up no store for the winter, it retires to its hole, and in its warm, soft nest of moss and leaves it lies secure from the rigors of the frost and the violence of the tempest, passing the dreaty season in a profoundly torpid state. The female produces from 2 to 4 young ones early in the summer, which at their birth are blind, and covered with soft white spines, which in 2 or 3 days become hard and elastic, The flesh of those animals, though generally rejected as human food, is said to possess a very delicate flavor. (Bot.) See Medicago.

A kind of dredging-apparatus.

(Bot.) See MEDICAGO.

—A kind of dredging-apparatus.

Hedge-hys'sop. n. (Bot.) See Gratiola.

Hedge'less, a. Without a hedge or hedges.

Hedge'-marriage, n. A chandetine marriage.

Hedge'-mote, n. A term of contempt for mean writing.

Hedge'-pig, n. A young hedgelog.

"Thrice and once the hedge-pig whined." — Shaks.

ices are Hedge'-priest, n. A low, illiterate priest.

ley co.

Hedge'-writer, n. A low, mean author; a poetaster; a grub-street writer.

Hedg'ing-bill, n. Same as Hange-Bill, q. r.

Hedg'man's River, in Virginia, joins Thomson's River in Culpepper co. to form the N. Fork of the Kappahannock River.

Hediam, thethical or Rt. Having one of the five grand

panamock River.

Hedjam, (hedjan,) or El Hejam, one of the five grand divisions of the peninsula of Arabia, bounded N. by the desert of Syria, E. by the Nedjd, S. by Yemen, W. by the Red Sea, and on the N.W. by Egypt. Area, 95,000 sq to. H. is mountainous, and has on the N. the celebrated mountains Horeb and Sinai, No rivers, but some springs and walls which deep unduring the services. and wells, which dry up during the summer. Proof. B im. myrth, and frankinceuse, and the finest Arabian borses are raised in H. It is especially famous as containing Mecca and Medina, the two great objects of Mohammeters

Are raised in II. It is especially samous as communed Mecca and Medina, the two great objects of Mohamusdan pilgrimage.

Hedonic Sect. (Philos.) Same as CTRENAICS, q. r.

Hedonism, n. (Philos.) The doctrines enunciated by the CTRENAICS, q. r.

Hed'onism, n. (One of the Hedonic sect.

Hed'onist, n. One of the Hedonic sect.

Hedyo'fis, n. (Gr. hedus, sweet, and olos, the ear: sad to cure deafness.) (Bot.) The Ear-worts, a genus of plants, order Fubiaces. They are herbs, many species of which are American, and among them Hear-lea, the Innocence, or Dwarf Pink, an elegant little pl. ri, found in moist grounds, fields, and road-sides. Its bissoms appear early, and are usually found in patches of considerable extent, covering the surface of the ground with a cerulem hue. The cauline leaves are small, opposite, lance-ovate. Stems very slender, forked. 5-7 high, each branch bearing a flower. Corolla pale blue, yellowish at the centre.

yellowish at the centre.

Hed'yphame, n. (Min.) A variety of Mimetite, q.v.

It is mainly composed of arseniate of lead, with some
phosphate and arseniate of lime.

Hedys'arum, n. [Gr. hedus, sweet, and aroma, smell:
some of the species being fragrant.] (Bot.) A genus
of herbaceous plants, order Pabacen.

Heed, v. a. [A. S. hedan; D. horden; Dan. hytle; Ger.
hüten, to look after, to guard; Icel. halld, guardianship:
probably allled to Gr. kėdomaa, to be concernel kr;
Bansk. chad, to cover.] To guard: to watch; to leek to
or after; to mind; to regard with care; to take notice
of: to attend to: to observe. of; to attend to; to observe.
"With pleasure Argus the musician Accde." — Dryden.

Care: attention; caution; notice; circumspection; observation; regard.

"Thou must take leed, my Portius." - Addi

Fearful attention; close watch for danger; cautions scrutiny. — Serious regard; respectful notice or observations.

"No heed is given to what he says." - L' Ess

-n. n. To mind; to consider; to pay attention to.

Heed'ful, a. Giving heed: attentive; observing; watchful; wary; cautious; circumspect: aa, heedful of advice, heedful care.

Heed'fully, adv. Attentively; carefully; cautiously;

Heed'fulness, n. Quality of being heedful; attention; caution; watchfulness; circumspection; vicilance; wariness.

tion; caution; watchulness; circumspection; vigilance; wariness.

Heed'less, a. Inattentive; careless; remiss; negligent; thoughtless: regardless: unobserving.

Heed'lessly, adv. In a heedless manner; carelessly; negligently; inattentively.

Heed'lessmess, n. Quality of being heedless; insitention; carelessness; thoughtlessness; negligene.

Heel, n. (A.S. hel; Du. hiel; probably allied to Gr. hilos, a nall, a knot, a protuberance.] The part of the foot which protuberates behind; the hinder part of the foot, and, sometimes, the whole foot;—in man and quadrupeds.—The hinder part of a shoe, stocking, set. &c.—Something shaped like the human heel; protuberance; a swelling; a knob; a projection.—The defing of latter part of anything, as of a legislative session.—A spur, in application to its being adjusted to the bed of a boot; as, to ply a horse with the heel.

(Naut.) The after extremity of a ship's keel.—The foot of a mast, boom, bowsprit, &c.

(Arch.) A cyma reversa, so called by workmes.

(Arch.) A cyma reversa, so called by workers (Gwilt.) — That part of a rafter which rests on the wall-

plate. Theel over. (Naut.) To incline to one side; as the ship heeled over to port.—Neck and heels, the entirlength of the body; as, he fell neck and heels.—To heels over head, to turn over after the manner of a somerset; hence, to go about anything rashly or unadvisedly.—To have the heels of, to be the swifter of a running.—To beat the heels of, to follow hard upon: to pursue closely. running. — To pursue closely.

"Want! ugly want is at my hools, and chases me in view." Otrep

To lay by the heels, to fetter; to shackle; to imprison.

To be out at the heels, to wear ragged stockings of one's feet; hence, to be poverty-stricken, or in bad com-

"A good man's fortune may grow out at he

To cool the heels, to wait; to dance attendance. — To show the heels, or a pair of heels, to flee; to escape or run from. — To take to the heels, to run away; to make

run rrom. — To take to the heels, to run away; to make one's escape; to betake to flight.

Heels, v. a. To add a heel or heels to; to furnish with heels; as, to heel a pair of boots. — To perform by exercise of the heels. Heel, v. a.

I cannot sing, nor heel the high lavolt." - Shake.

(Sports.) To arm with a gaff for fighting; as, to heel

-r. n. (Naut.) To lean over, as a ship.

Heel'er, n. (Sports.) A cock that strikes well with his

Heel'-piece, n. A patch of leather on the heel of a boot or shoe. — Armor for the heels. — The end; as, the

since.

\*\*Meel':tool, n. A tool used by turners for roughing out a piece of iron, or turning it to somewhat near the intended size; it has a very acute cutting edge and an angular base or heel.

Heer, n. The length of two cuts of threads, linen woollen.

Wooten.

Heerlen, (hare'len,) a town of the Netherlands, 14 m.

N. of Maestricht. Manuf. Needles, linen, and beer; a
trade of considerable extent in cattle is also carried on.

Trade of considerable extent in cattle is also carried on.

Pop. 4,780.

Heft, n. [Icel. hofyi, weight.] Weight; ponderosity of substance. (Used as Provincial English, and colloquially in the U. States.)— The bulk of anything. (An American colloquialism.)

American colloquialism.)

—r. a. To heave or raise up; to elevate. — To prove the weight or bulk of by lifting. (Used provincially in England, and colloquially in the U. States.)

Heft'ed, a. Lifted; raised; — hence, by implication, agitated; perturbed. (Used in composition.)

Hegarty's Cross Roads, in Pannylvania, a postofice of Clearfield co.

Riegarty's Cross Roads, in Pransylvania, a postoffice of Clearfield co.

He'gel, Gooks Wilhelm Friedrich, a German thinker,
and the founder of a new school of philosophy, B. at
Stuttgart, 1770. He was professor successively at Jens,
Heidelberg, and Berlin. He was at first the disciple of
Schelling, with whom he was associated in the conduct
of a philosophical journal in 1802-3. But his opinions
gradually took a different turn. He rejected Schelling's
intellectual intuition as an unwarrantable assumption
although he continued to maintain its leading idea,—
the unity of the subjective or ideal, and the objective or
real; and in this idea endesvored to establish that absolute cognition and absolute truth, which alone, according to this school, can satisfy the demands of the
philosophical spirit. H. seems not to have perfected his
system; and as he had no power of exposition, or of
lucid expression of his thoughts, it is impossible to give
a clear view of his philosophy. Indeed, it would appear
that he himself had the same notion; for he is said to
have remarked, that, "of all his numerous disciples,
only one had ever understood him, and even he had understood him falsely." Be this as it may, his system is
at present the centre of nearly all philosophical interest
in Germany, chiefly from the widely discrepant deductions, political and religious, which his friends and
enemies draw from it; some maintaining it to be favonneble to the present order of things in Church and State,
others founding upon it conclusions at variance with all
ordinary notions of religion or morality. His most important works are his Phenomenology of the Mind;
Logic; and Encyclopacia of Philosophical Sciences. D.
of cholera, at Berliin, 1831.

Hege-lian, a. Relating, or belonging to the philosophy of Hegel.

—8. An adherent of Hegel's philosophical system.

Programment a. Relating, or belonging to the philosophy of Hegel.

— a. An adherent of Hegel's philosophical system.

Hege'itanism, He'gelism, n. The philosophical doctrines propounded by Hegel.

He'gins, in Pannyleania, a post-township of Schuylkill co.

He'gins, in Panasylcania, a post-township of Schuylkill co.

Hegi'ra, Heji'ra, n. [Ar. hitjirah, departure.]
(Chron.) The sera from which Mohammedan nations compute all chronological events subsequent to the flight of Mohammed from Mecca to Medina, on the night of the 15th of July, 622. The first day of the first year of the H. is, therefore, the 16th of July in that year. As there are only 354 days in the Mohammedan year, it follows that 33 of their years are very nearly equivalent to 32 years according to our system of rockoning. We must, therefore, in bringing any date reckoned from the H. to its corresponding date according to the Christian zara, subtract 3 years from every 100 years contained in it, or, to speak more accurately, one year for every 33 years, and then add to the result the number of the year of our Lord in which the H. took place, less one; and in converting a date of the Christian zara into its corresponding date reckoning from the H., we must reverse the process, subtracting the number of the year in which the H. took place, less one from it, and adding to the result one year for every 32 years contained in it. Thus, if we require the year of our Lord in which the year of the H. 1280 commences, we must subtract 33 from it, or 1 for every entire 33 years, and add 621 to the result, 1242, which gives 1863. If, on the other hand, we must subtract 621 from this amount, and to the result, 1242, add one year for every entire 32 years contained in it, which gives 1280.

Headelberg, (hi'del-berg,) a celebrated city of S. Ger-

many, in the grand-duchy of Baden, at the foot of the many, in the grand-duchy of Baden, at the foot of the Kaiserstuhl, on the Neckar, ab. 12 m. above its conflu-ence with the Rhine at Mannheim, 30 N. of Carlsruhe, and 48 m. 8. of Frankfort-on-the-Main. The city is pic-turesquely situated in the valley of the Neckar, and is an aucient, but gloomy and ill-built place. The Schloss, turesquely situated in the valley of the Neckar, and is an aucient, tut gloomy and ill-built place. The Schloss, or palace of the electors-palatine, is, perhaps, excepting the Alhambra, the most picturesque ruin in Europe, exhibiting as it does many varieties of mediseval architecture. In one of the cellars of this palace is the famous tun of Haidelberg, (constructed in 1751, and empty since 1769.) which is said to be capable of holding 283,200 bottles. The terrace and gardens command fine views, extending as far S. as the dusky outline of the Vogges. The university of H. is, excepting that of Prague, the oldest in dermany, having been founded by Rupert II., elector-palatine of the Rhine, in 1386. Hhas no trade of any importance. The date of the foundation of this city is not known. The period between 1382 and the opening of the Thirty Years' War, appears to have been the zera of its greatest prosperity, for it then displayed all the splendor arising from a flourishing trade, and the residence of the court of the electors-palatine. H. was taken and plundered by the Bavarians in 1622; sacked by Turenne in 1674, and ravaged by the French in 1689 and in 1683. The electors removed their residences to Mannheim in 1719. Pbp. (1896) 32,900. Hel'delberg, in Pennsylvania, a township of Berks co.

—A township of Lebanon co.

HEIN

A township of Lebanon co.

—A township of Lebanon co.

—A township of Lehigh co.

—A township of York co.

Held'lersburg, in Pransylvania, a post-village of Adams co., abt. 25 m. S.S W. of Harrisburg.

Helfer, (hdf'er.) n. [A.S. heafre, heafore; probably akin to Heb. para, a heifer, fem. of par, a young bullock.] A young cow.
"No thirsty heifers seek the gliding flood."—Pape.

Heigh-ho, (hī'hō,) interj. An exclamation indicating some degree of languor or uneasiness.

"Heigh-ho! an't be not four by the day, I'll be hanged."—Shaks.

Height, (hīt.) n. [A.S. heahtho, heatho—heah, high. See High.] Elevation above the ground; any indefinite See HIGH.] Elevation above the ground; any indefinite distance above the earth; eminence.—The altitude of an object; the distance which anything rises above its foot, basis, or foundation; as, the height of a spire, the height of a mountain. "I know she is about my height." (Shakz.)—An eminence; a summit; an elevated part of anything; a hill or mountain; any elevated ground; as, the heights of Abraham, Alpine heights.—Elevation of rank or dignity; elevation in power, learning, fame, reputation, &c.; preëminence; advanced station of social rank; prominence; distinction; as the height of fame reputation, acc.; presminence; advanced station of social rank: prominence; distinction; as, the height of fame. — Furthest exertion; utmost degree of extent or force; full completion; as, the height of a crisis, the height of happiness, misery, folly, good-breeding, &c., the height of a gale, height of a fever.

"Despair is the height of madness."-Sherlock

Advance; degree; progress toward elevation or perfection; grade.

"Social duties are carried to greater heights . . . by the principles of our religion."—Addison.

ples of our religion."—Addison.
(Geom.) See ALTRUDE.

Height'em, v. a. To raise higher; to elevate; to make high; as, to heighten a house by the addition of a story.
—To advance in progress toward a better state; to ameliorate; to improve; to increase in excellence; as, to hrighten a poetical description. —To aggravate; to augment in violence, as distress; to intensify; to advance towards a worse state.

"Foreign states used their endeavors to heighten our confusions.

To make prominent by means of contrast; to set off to advantage by touches of light or brilliant colors; to make brighter; as, to heighten a tint. "O fair undress! it heightens case with grace."—Thomson.

"O fair undress! it heightens ease with grace."—Thomson.

Height'ener, n. One who, or that which, heightens.

Heil, r.a. [A. S.] To cover; to tile. (o.)

Heilbronn, (hillbron,) a town of South Germany, in

Wittemberg, near the Neckar, 25 m. N. of Stuttgart.

In the outskirts of the town is a square tower, in which

Götz von Berlichingen (the hero of one of Göthe's dramass) was confined in 1525. Manuf. Woollen cloths,

hats, brandy, paper, white-lead, tobacco, &c.

Heil'ingenstacit, a town of Prussia, in Saxony, on the

Leine, at its confluence with the Gaislade, 47 m. N.W.

of Erfurt.

Heil'ing. n. See Helling.

Leine, at its confinence with the Gaislade, 47 m. N.W. of Erfurt.

Heil'ing, n. See Heling.

Heil'ing, n. See Heling.

Heil'ing, n. See Heling.

Heil'ing, in May and July, 1863.

Heil'ing, in May and Hele, July, 1863.

Hell'ing, in May and July, 1863.

Hell'ing, in May and July, 1863.

Hell'ing, in May and Hele, July, 1863.

Hell'ing, in May in Hell'in Hell's May in Hell'in Hell's May in Hell's May in Hell's May in Hell's Ma

lowing year he became totally blind, and subject to the severest bodily pains. From that time he was confined to his room, but endured all with singular fortitude, and continued his literary labors to the last. His best works



Fig. 1262. - HEINRICH HEINE

Fig. 1262.—HEINRICH HEINE.

are the Buch der Lieder, published in 1827; Neue Gedichte, 1844; Romanzero, 1851; and the Reizelvilder, his first successful book, which appeared in 4 vols. between 1825 and 1831. Among his other writings are, Kahldorf über den Adel; Der Salon; the bitter personal satire Ueber Börne; Deutschland, ein Winter-Mürchen; and Atta Troll. H. will probably be longest remembered for his songs, many of which are of exquisite beauty, and are even thought by some to rival in their delicacy and finish the earlier songs of Gethe. H. D. at Paris, 1856. An English translation of his songs, by Wallis, appeared the same year. His literary remains, edited by Adolph Strodmann, were published in one vol., 1870.

Heinous, (ha'nus.) a. [Fr. haineux—haine, hatred, malice, from hair, to hate, from obs. Lat. odire, pr. infin. of Lat. odi, odisse, to hate.] Hateful; odious;—hence, characterized by great wickedness; flagrant; enormous; aggravated; monstrous; abominable; flagitious; atrocious; as, a heinous sin, heinous manner; hatefully; monstrously; flagrantly.

Hein'mousness, n. State or quality of being heinous; hatefulness; odiouness; enormity; as, the heinousness of a crime.

Hein'twelman. Sanuel P., an American general. E.

natefulness; odiousness; enormity; as, the heinousness of a crime.

Hein'txelimam, Sanull P., an American general, B. in Pennsylvania, 1807, was admitted as a cadet at West Point in 1822. After passing through the subordinate grades until he became captain, he served during the Mexican war, obtained the rank of major in 1847, and served in California. In 1861 he was brevetted lieut.-colonel for meritorious services against the Indians, and was ordered to Washington, to take the position of inspector-general of the forces. In May, 1861, H. was commissioned colonel of the 17th regular infantry, and commanded a division of Gen. McDowell's army at Bull Run, July 21st, where he was wounded. Afterwards promoted brig.-general of volunteers. H., during the organization of the army in the winter of 1861-2, held command of a division. On the moving of the army of the Potomac in March, 1862, the third army corps was placed under Gen. H.'s command. In the same year he was promoted to the rank of maj-general of volunteers placed under Gen. H.'s command. In the same year he was promoted to the rank of maj-general of volunteers for his gallantry at the battle of Seven Pines, and commanded his corps during the battles of the latter days of Gen. Pope's unsuccessful campaign in Virginia. H.'s corps formed the right wing of Pope's army at the second lattle of Bull Run, Aug. 30, 18c2. During the Maryland campaign he held command of the defences at Washington, and was afterwards appointed to the command of the Department of Washington, and of the 22d army corps, which he held during the battles of Chaucelloraville and Gettysburg, in May and July, 1863. Retired in February, 1869, with the rank of majorgeneral, U. S. A. Died May 1, 1880.

Helf., (dr.), n. [O. Fr. heir, here; Lat. heres.] (Law.) He who is born or begotten in lawful wedlock, and upon whom the law casts the estate in lands, tenements, or

He who is born or begotten in lawful wedlock, and upon whom the law casts the estate in lands, tenements, or hereditaments immediately upon the death of his ancestor.— Heir-apparent, he who (by law or custom) must succeed, by descent, to the hereditaments, if he survive the present holder.— Heir-presumptire, he who stands nearest in succession in the present circumstances, but whose rights may be defeated by the contingency of some nearer heir being born.

One who inherits or takes from an ancestor; or who recipes anything from another; in the manner of an heir:

Heirloom, n. [Heir, and A.S. loma, geloma, a loom, household stuff, furniture, utensils, &c. See Loom.] (Law.) A term applied to such goods and personal chattels as, contrary to the nature of chattels, go by the special custom of a particular place to the heir, together with the inheritance, and not to the executors or administrators.

the inheritance, and not to the executors or administrators.

Heir'ship, n. The state, character, or privileges of an heir; right to succeed to an inheritance.

Heis'ter, Lorenz, a German surgeon, B. at Frankforton-the-Main, 1683. He became physician-general to the Dutch military hospital; and in 1710 was professor of anatomy and surgery at Altorf. From thence he removed to Helmstadt, where he died, 1758. H. was the founder of the new German system of surgery, in which through him great improvements were made. His chief work is the Chirusyie (Nuremb., 1718), which was the standard work for many years, and was translated into all the languages of Europe.

Heis'cersburg, in Pennsylvania, a P. O. of Fayette co.

Hei'amnys, n. [Gr. hellos, a fawn, and mys, mouse.]

(Zool.) The Jumping-hare, an animal which constitutes a genus of mammalia of the ord.

Rodentia, allied

main of the ord.
Rodentia, allied to the Jerboas.
The head is large, the tall long, the fore-legs are very short in comparison with the hinder. They have four molars, each com-posed of two la-minse; their lower incisors are truncated; the fore-feet



Fig. 1263. — AFRICAN JUMPING-HARR,

the fore-feet Fig. 1263.—AFRICAN JURYING-HARR. have five toes, (Helemps cafer.) furnished with long pointed nails; the hind-feet have four toes, which are separated as far as the bones of the metatarums, and furnished with large claws, almost resembling hoofs. The species Helemps cafer is pale fulvous, with a long utfed tail, black at the tip. It is as large as a rabbit, and, like it, inhabits deep burrows. Figure 1263 exhibits one about to spring, while another is at the mouth of its burrow.

and, like it, inhabits deep burrows. Figure 1263 exhibits one about to spring, while another is at the mouth of its burrow.

Held, imp. and pp. of Hold, q. v.

In or channel to the Zuyder-Zee, and having almost the only deep-water harbor on the Dutch coast, it is strongly fortified. It has some manufactures, and connects with Amsterdam by the Helder canal, the finest in Holland. The famous Van Tromp was killed in a sea-fight off The H. in 1653, and the British captured it in 1799. Pop. (1897) about 23,500.

Helderbergs, in New York, a ridge of the Catakill Mountains, in Schoharie and Albany cos. The Helderberg rocks of the Upper Silurian geological period take their name from formations found in this range. See Geology; Helderberg formation.

Hel'em. (Hyth.) The daughter of Jupiter and Leda, of Jupiter and Nemesis, or of the king Tyndareus and Leda, his wife, according to the various statements of the poets, was the most beautiful woman of her time, and married to Menelaus, king of Sparta. Her guilty elopement with Paris, one of the sons of Priam, king of Troy, who had been sent to Lacedemon as ambassador, led to the Trojan war, and the destruction, after a 10 years' siege, of Troy. Upon the death of Paris, she married his brother Delphobus, and when the city was at last sacked, returned to Sparta with her husband Monelaus, Being banished from Sparta on the death of Menelaus, she retired to the island of Rhodes, where, having excited the envy of Polyxo, the queen of the isle, she was tied to a tree and strangled.

Hele'ma, n. (Meteor.) See Casron and Pollux.

Hele'ma, m. (Meteor.) See Casron and Pollux.

Hele'ma, m. (Meteor.) See Casron and Pollux.

Hele'ma, m. (Meteor.) See Casron and Pollux.

Hele'ma

of 80 she went to Palestine, where, it is said, she assisted in the discovery of the Holy Cross; soon after which

in the discovery of the Holy Cross; soon after which she died.

Hele'ma, (\$4.\*,) a precipitous and lone island in the Atlantic Ocean, belonging to Great Britain, and lying 800 m. from the island of Ascension, 1,200 m. from the coast of Benguela, South Africa, and 2,000 m. from the coast of S. America, in 15° 55' S. latitude, and 5° 43' W. longitude. Saint Helena occupies an area of 47 sq. m., and is almost everywhere surrounded by rugged, perpendicular rocks, rising from 600 to 1,200 feet, here and there broken through by chasms extending to the seashore. The most important of these rifts is St. James' Valley, on the north-west, terminating in James Town, the only port or harbor in the island, and the residence of all the authorities. The town is so strongly defended, both by nature and art, that it may defy invasion. The interior is fertile, and covered with gardens, orchards, and plantations, and the climate so

remarkably healthy, that invalids from India retire to it for the benefit of their health. Diana's Peak, the highest point in the island, is 2,693 feet above the eea. The total population, including Europeans, the garrison,

HELI



Fig. 1264. - JAMESTOWN, (ST. HELENA.)

Chinese, and negroes, is about 5,000. St. Helena derives its only importance from its being on the direct route from the E. Indies to Europe; but its imperishable celebrity is due to its having been the place of confinement in which Napoleon L, under the guard of England, agonized from 1815 to 1821. Longwood, where he died, as at the E. part of the island, and situate 2,000 feet above sea. His remains lay here, also, till 1849, when, by permission of the English government, they were conveyed to France.

by permission of the English government, tney were conveyed to France.

Hele'ma, in Arkaneca, a city, cap, of Phillips co., on the Mississippi river, 80 m. below Memphis, and 700 m. above New Orleans. Pop. about 3,500. A battle took place here, July 4, 1863, between a force of 8,000 Conciderates, under Gen Holmea, and one of Nationals, commanded by Gen. Prentiss, in which, after some hours of desperate contest, the former retreated with a total loss of 1,696 men. Pop. (1897) about 5,300.

Hele'ma, in Kensucky, a post-village of Mason co., about 10 m. S. of Sukville.

Hele'ma, in Missission, a post-township of Scott co., about 15 m. S. of Sukkopse.

Hele'ma, in Montona, a thriving city, cap, of the State, on the Nor. Pac. and Gt. Northern R. Rs., 115 m. N. of Virginia City, and 17 m. W. of the Missouri river. Here are rich gold mines, also silver and iron; quartacrushers, flour and lumber mills. Pop. (1890) 13,834; (1897) about 20,000.

Here are rich gold mines, also silver and iron: quartscrushers, four and lumber mills. Pop. (1890) 13,834;
(1897) about 20,000.

Hele'ma, in New York, a post-village of St. Lawrence
co, on St. Regis river, about 33 m. N.E. of Canton.

Hele'ma, in Texas, a post-village of Karnes co, on the
San Antonio river, about 56 m. S.E. of San Antonio.

Hele'miums, n. (Bot.) A gen. of plants, ord. Asteraces.
The American Sneeze-work. H. autumnale, is a very little plant, in damp places, with a stem 2 to 3 feet high,
branching; leaves tapering to each end; flowers large,
numerous, terminal, with drooping rays, each ending in
3 obtuse teeth, and longer than the larger, globose disc.

Hel'em's, (St.,) a town of England, in Lancashire, 3½m.

E.N.E. of Prescot. Manuf. Plate-glass, bottles, watchmovements, chemicals, and earthenware.

Hel'enville, or Helensville, in Wisconsin, a postvillage of Jefferson co., about 6 m. E. of Jefferson.

He'line, Heli'scal, a. [Lat. heliacus, from Gr. hiliakos—hélios, the sun, akin to hélé, splendor, brightness.]
(Astron.) When a star appears above the horizon, and
becomes visible a short time before sunrise, its rising is
said to be hellacal. In the case of a star which is close
to the sun's orbit when the sun, by reason of its course
along its orbit, is approaching the star, the sun rises
after the star, and is receding from it, the star begins
to rise before the sun, and sets before it. When the sun
is close to the star in its rising and setting, or when
both bodies rise and set nearly at the same time, the to rise before the sun, and sets before it. When the sun is close to the star in its rising and setting, or when both bodies rise and set nearly at the same time, the latter cannot be seen on account of the superior brilancy of the former. When, therefore, the sun is approaching the star, and the star becomes visible at its setting, just after sunset, it is said to be set heliacally; but when the sun has passed the star, and it is visible at its rising shortly before sunrise, it is said to rise heliacally.

acally.

Hell'acally, adv. In an heliacal manner.

Hell'acally, adv. In an heliacal manner.

Hell'acales, n. pl. (Gr. Myth.) Daughters of the Sun, who wept amber tears on the death of Phaëton.

Heliam'themum, n. (Gr. helios, sun, and anthemon, flowers.) (Bot.) A genus of plants, order Cistacen. The Frost-weed or Rock-rose, H. Canadense, found from Canada to Florida, in dry fields and woods, is distinguished by its flowers with large bright-yellow petals, in a terminal corymb.

Heliantho'dda, n. (Zozl.) An order of Polyps, embracing those which have a well-developed abactinal region, conical or cylindrical tentacles around the mouth, and the ambulacral square always open.

region, conical or cylindrical tentacles around the mouth, and the ambulacral square always open.

Heliam'thus, n. [Gr. helios, the sun, anthos, flower.]
(Bot.) The Sun-flower, a gen. of plants, order Asteraces.
The species H. annuas is a well-known annual. It is appropriately named the sun-flower, as its large circular head of florets, surrounded by golden rays, forms a complete ideal representation of the sun; moreover, it never

ceases to adore the sun while the earth is illuminated by his light; for when he sinks in the west, the flowers of Helianthus are turned towards him, and when he rises in the east, they are ready to be cherished by his first beams. Some writers on botany deny that the flowers turn with the sun; but their observations do not agree with popular experience. There are varieties of H. annauss with double flowers, the tubular florets being all changed into livelate once like those of the ray. H. annesses with double flowers, the tubular florets being all changed into ligulate ones, like those of the ray. The pith of the stem contains nitrate of potash, and is sometimes used in the preparation of moxas. The fruit sometimes used in the preparation of moxas. The fruit have lately been employed as an ingredient in a kind of soap called sunflower-soap. The species H. tuberosse produce the tubers known as Jerusalem articheker, which are much esten, like potatoes. The word Jerusalem is merely a corruption of the Italian giranele. Helifess. 4. [From tir. helix. See Hellix.] Pertaining or relating to a helix; spiral; winding; coiled in a spiral form.

Helichry'summ. 7. [Gr. helics. sun. and chrysos. gold.]

spiral form.

Helichry'sum, s. [Gr. helios, sun, and chrysos, gold.]

(Bot.) A genus of plants, order Asteraces, and the type
of that group of flowers which are called Everlastings
or Immortelles. These "everlasting flowers" are in
fact the flower-heads of the species of Helichrysus and
of plants allied to it, which at one time or other have
been separated. The ornamental part consists of the
involucral scales, which in addition to their dry scarious
durable character have acquired colors of more or less
brilliancy. The common H. bracketism of gardens has
given rise to various Everlastings of distinct and showy
colors.

animal can be with-drawn (Fig. 1265). Most of the species pretty much rese mble



pretty much resemble the common snails in their habits, feeding on vegetable substances of various kinds, and often proving troublesome to the farmer and gardener. There are 4,000 living species, and 300 fossil.

species, and 300 fossil.

Hel'ielm, n. (Chem.) A compound produced by the action of dilute nitric acid upon salicin, q. v. It is whita, slightly bitter, and soluble in hot water.

Hel'ieoid, n. [Gr. helikoridéo. See Helli.] (Geom.)

There are two surfaces of this name: the developable

There are two surfaces of this name: the developable helicoid or screw-surface, whose generators are the tangents to a common helix: and the sleve helicoid, generated by a line which moves so as always to rest on the helix and cut its axis perpendicularly. The former is simply the developable osculatrix of the helix — a developable surface, therefore, of which the helix is the cuspidal edge; the latter is a concid having the helix for its directing curre; it is, in fact, the focus of the principal normals of the helix. The developable helicoid is circumscribed to the skew helicoid, the helix itself being the curve of contact. Every plane perpendent isolic bing the curve of contact. Every plane perpendicular to the axis of the helix cuts the developable helicoid in the involute of the circular section of the cylinder on which that helix is traced. The developable helicoid is also the cyclifying surface of the helix; that is to axy, when the surface is unfolded into a plane, the helix becomes a circle. the helix becomes a circle.

Helicoid, Helicoid'al, a. Spirally curved or in-

voluted.

Helicoid Purabola. (Math.) See Parabolic Spiral.
Helicoim etry, n. [Gr. helikos, a spiral, and metron, measure.] (Geom.) The art of measuring spiral lines on

Helicom etry, s. [Gr. helikos, a spiral, and metros, measurs.] (Geom.) The art of measuring spiral lines on a plane.

Helicom, a mountain of Beectia, between Lake Copais and the Cornthian Gulf. It was celebrated by ancient poets as the favorite seat of the Muses. The loftiest summit (now called Paleováví) is about 5,000 feet high. At the bottom of H. stood the village of Askra, the residence of Hesiod, and the seat of the earliest school of poetry in Greece. In ascending the mountain from Askra (now Pyrgódxi), the traveller passes the famous fountain of Aganippe, the waters of which were fabled to bestow inspiration. The Grove of the Muses is supposed to have been situated in a hollow at the foot of Mount Mirandáli, one of the summits of Helicon. Twenty stadia above this was the fountain of Hippocrene, probably the modern Makariotissa, where there is still a fine spring.

Helico'miam, a. Relating, or pertaining to Helicon. He'liers, (Sit.,) a fortified seaport-town, and cap. of the island of Jersey, in the English Channel, 90 m. S. of Portland Bill, Eng., and 39 N. W. of St. Malo. on the French coast. The town stands on St. Aubin's Bay, on a slope between two rocky heights, and is tolerably well-built. Manuf. Unimportant. Pop. 32,480.

He'ling, Heil'ing, s. [From Icel. Aylia.] That which covers, as a coverlet, a roof, &c. (o.)

He'l'golamd, Helicolann, [anc. Hertha.] a strongly fortified island belonging to Germany, in the North Sea 46 m. N.W. of the mouths of the Elbe and Weser. Area, 5½ sq. m. It consists of a bare, precipitous rock, without tree or shrub, and is only valuable as being an important naval station, and as commanding the N.W. coast of Germany. H possesses two good harbors, and a lighthouse. The inhabitants are mostly engaged in the haddock and lobster fisheries, which are extensive.



Fig. 1266. - HELIGOLAND.

Heliocon'trie, Heliocon'trical, a. [Gr. helios, and bentron, centre.] (Astron.) Pertaining to, or appearing to be seen from, the sun's centre; as, the helio-

pearing to be seen from, the sun's centre; as, the nete-centric place of a planet.

Heliocentric parallax. See PARALLAX.

Heliocentric place, the latitude, longitude, &c. of a planet or heavenly body. The heliocentric latitude of a planet is the angle of the sun's centre, formed by the pro-jection of its radius vector on the elliptic and the straight jection of its radius vector on the elliptic and the straight line drawn from the centre of the sun to the first point of Aries. Similarly, the helicoentric longitude of a planet is the angle formed by the straight line which joins the centres of both planet and sun, with the plane of the celiptic. The greatest helicoentric latitude is consequently equal to the inclination of the planet's orbit. Bellocementric System (Astron.) The system which regards the sun as the centre of our solar system. This theory was first propounded by Aristarchus of Sanos, and afterwards established by Copernicus. As put forth by him, it needed only Newton's hypothesis of gravitation to complete the system of modern astronomy.

astronomy.

Heliochrome, n. [Gr. helios, and chroma, color.] colored photograph.

Heliochrom'ie, a. Relating or belonging to heli-

ochromy.

Elelioch'romy, n. The art of producing colored

Helioch'rosmy, n. The art of producing colored photographs.

Helioch'rus, a native of Emesa, in Phoenicia, and who lived near the end of the 4th century, was bishop of Tricca, in Thessaly, but deposed towards the close of his life. His youthful work, Editopica, a story of the loves and surprising adventures of Theagenes and Chariclea, in poetical prose, is distinguished by its strict morality from the other Greek romances. It has been frequently republished, and translated into many languages.

Heliographa, (hčlio-graf.), n. [See below.] A picture taken by the process of heliography.—The name given to several instruments, all of which, though differing in construction and in method, are designed to refect solar rays with ease and quickness in any required direction; to preseve them constantly in that direction notwithstanding the (apparent) motion of the sun, and, by slightly changing and restoring the inclination of

notwithstanding the (apparent) motion of the sun, and, by slightly changing and restoring the inclination of the mirror, to make the finshes appear and disappear in rapid succession to a distant observer, and so to indicate words. A HELIOTOPE, (q. v.) is a kind of Heliograph.

Heliograph'ie, a. Pertaining to heliography.

Heliography, n. [Gr. helios and grophein, to write.] A general name given to the art of fixing images of objects by means of PROTOGRAPH, q. v.

Heliograph, (Gr. latres, servant.) A sun worshipper, Heliograph, n. (Win.) A variety of OLIGOCLES, q. v.

Heliometer, n. [Gr. helios, the sun, and metrein, to measure.] (Astron.) An instrument invented by the astronomer and mathematician Bougner, about the mid-Hellem eter, n. [cir. helios, the sun, and metrem, to measure.] (Astron.) An instrument invented by the astronomer and mathematician Bougner, about the middle of the 18th cent., for the purpose of determining the diameter of the sun, moon, and stars. It consists of a conical tube, fitted with two object-glasses of the same focal length, or a single object-glass divided into two equal parts, which are made to slide along each other in the line of section, by micrometer screws, in connection with graduated scales. The glasses are contrived to move in a direction at right angles to the axis of the tube. When the H. is directed towards any heavenly body, two images are formed in the eye-glass of the instrument, which may be made to separate entirely from each other, or coincide, at pleasure, by moving the object-glasses by the micrometer screw. When the images coincide, the angle subtended by the diameter of the heavenly body under observation is equal to that which is subtended by the distance between the centres of the object-glasses; and as this angle and the distance beobject-glasses; and as this angle and the distance be-tween the centres of the glasses are determinable by the graduated scales attached to the instrument, the

the graduated scales attached to the instrument, the diameter of the heavenly body can be determined when its distance from the observer is known, or, rice rersa, its distance can be determined if its diameter be known. Heliopolis. [Gr., city of the sun.] (Anc. Geog.) A celebrated city of Egypt, called in Coptic, Hebrew, and the English version, On, sun, light. The Seventy mention expressly that On is H. Jeremiah calls this city Esthabases that is house or tample of the sure Type. Beth-shemesh, that is, house or temple of the sun. In Excised the name is pronounced Aren, which is the same as On. The Arabs called it Ain-Shems, fountain of the sun. All these names come from the circumstance that the city was the ancient seat of the Egyptian worship of the sun. It was in ruins in the time of Strabo, who mentions that two obclisks had already been carried away to Rome. At present its site, 6 m. N.N.E. Of Cairo, is marked only by extensive ranges of low mounds full of ruinous fragments, and a solitary obclisk formed of a single block of red granite, rising about sixty feet above the sand, and covered on its four

HELL

about sixty feet above the sand, and covered on its four sides with hieroglyphics.

Heliop'elis Syrise. See Balbec.

Heliop'sis, n. [Gr. helios, and opohis, appearance.]
(Bot.) A genus of plants, order Asteraceæ. H. kevis, the Ox-eye, is the most conspicuous American species. It is a large, symmetrical plant, found in hedges and thickets. Its stem is 3-5 feet high, with branches thickened at the summit, each terminating with a large, solitary, vellow head.

itary, yellow head.

Helioscope, n. (Gr. heliss, and skopein, to view.]
(Astron) The name given by Scheiner to an instrument of his own invention for observing the sun without hurting the eyesight. The ordinary method is to place a disc of colored glass before the eye-piece of the

telescope.

He'liostat, n. [Gr. helios, and states, standing.] (Optics.)
An instrument invented by Gravesande for the purpose
of obviating in optical experiments the inconvenience
arising from the continual change of direction of the
solar rays, by reflecting them in the same straight line.
It is easy to contrive a mechanism by which this object
may be accomplished. Suppose a clock to be placed
within its dial parallel with the equator, or the axis of
the index-hands parallel with the axis of the earth; and
suppose further, a rod connected with the extremity of the index-hands parallel with the axis of the earth; and suppose further, a rod connected with the extremity of the hour-hand to meet the axis produced and make with it the proper angle; then a mirror fixed perpendicularly to the rod will have the motion required. The H. is now extensively used in connection with the STRENGORY, Q., He'lletrope, n. [Fr.; Gr. Achicropion, a flower which turns to the sun.] (Bot.) See Hillotropius. (Geodery.) An instrument by which the sun's rays can be reflected to a considerable distance. It is used in trigonymatrical surveys to transmit single from one

in trigonometrical surveys to transmit signals from one station to another, and to make distant stations distinguishable when they are many miles apart, that the surveyor may be enabled to determine his angular measure

veyor may be enabled to determine his angular measurements with accuracy.—See Ghodest.

(Min.) A deep green, slightly translucent stone, containing spots of red jasper resembling blood, and called also blood-stone. It is a variety of quartz, containing a small percentage of alumina and oxide of iron. In the royal collection at Paris is a bust of Christ, so carved out

royal collection at Paris is a bust of Unrist, so carved out of this stone that the red spots represent drops of blood. **He liotroper**, n. The person who has charge of the heliotrope at a geodetic station. **Heliotro paum**, n. [Gr. helios, and tropol, I turn.] (Bot.) The Heliotrope, or Turnsole, a genus of plants, order Boraginaces. H. Peruvianum and Europeanm are

order Boraginaces. H. Peruvianum and Europeum are popular plants. They have a delicious odor, not unlike that of new hay.

Helispheric. Helispherical, (hê-li-sfer'ik.) a. [Fr. helicospheric, from Gr. helica, and sphairikos, spherical.] Spiral; as, a helispherical line.

He'lix, n.; pl. HELICES. [Gr. helicz, a spiral, from helics, to turn round or about.] A spiral line, as of wire in a coil; a circumvolution, or something that is spiral, as a winding staircase.

(Arch.) The curling stalks, or volutes, under the flowers in each face of the abacus of the Corinthian canital.

capital.
(Anat.) A term applied to the reflected margin of the

(Anat.) A term applied to the reflected margin of the external ear.

(20%). See Helicids.

(Geom.) A non-plane curve, whose tangents are all equally inclined to a right fixed line.—See Helicoto.

Hell, n. [A. S. hyll; D. hel; Fris. hol; Icel. helia, death; Ger. hölle; Heb. sheol, Orcus, the lower world.] The place or state of punishment for the wicked after death; the abode of the devil and his angels; the infernal powers.—The place of the dead, or of souls after death; the lower regions, or the grave; Hades. — A gambling-house. — A place, in certain out-door games, whither those who are caught are carried. — A place into which a tailor throws his shreds, or a printer his broken type. — Used in composition, to denote any place or situation of mental torment.

Jealousy . . . the injured lover's hell."

A dungeon, prison, or cell; a place of durance.

Gates of Hell. (Script.) A metaphor, employed allusively to the power of Satan, and his infernal instru-

ments.

Hellada, a river of Greece, which after a course of 50 m. enters the Gulf of Zeitoum.

Helladothe rium, n. [Gr. Hellas, Greece, and therion, beast.] (Ful.) A fossil mammalian resembling the Giraffe, but devoid of horns. It is found in the old pliocene of France and Greece.

Hellama, in Pennsylvania, a post-township of York co.; ron about 300?

pop. about 3.002.

Hellanod'ie, n.; pl. HELLANDICE [Gr. Hellanod'ikai.]

(Greek Hist.) A judge in the Olympic games; also, the
title given to a judge of the court-martial in the Laceda-

monian army. **Hel'las**, the original home of the Hellenes, according to the received opinion, was first a town, and afterwards, under the name of Phthiotis, a well-known district of Thessaly. The ancients, also, sometimes applied this name to the whole of Thessaly. With the spread of the Hellenic people southward, the term embraced a gradu-

ally increasing territory, until it came to denote the whole of Middle Greece, or Greece Proper (modern Linadia). At a still later period, the Peloponnesse itself was included under the designation; and, finally, H. came to be used, in the broadest sense, as comprehending the whole of Greece, with its islands and colonies. The HELLENES, or Greeks, as distinguished from the more ancient Pelasgians, received this name in the belief that they were descended from a certain Hellen. This mythical personare, a son of Deucalion and Pyrrha. belief that they were descended from a certain licilen. This mythical personage, a son of Deucalion and Pyrrha, or, according to others, of Zeus and Dorippe, and the father of Æolus, Dorus, and Xuthus, was said to have been king of Phthis, and to have ruied over all the country between the rivers Peneius and Asopus. Hell'-bender, a. (Zoil.) See Ballannburgh. Hell'-black, a. Black as hell; as, "hell-black night."

Hell'-born, a. Born in hell.
Hell'-bred, a. Produced in hell; hellish; as, "the hell-bredbeast." — Spenser.
Hell'-broth, n. A composition boiled up for infernal

purpose

"Like a hell-broth boll and bubb Hell'-cat, n. A witch; a hag; a harridan; a crone. Hell'-doomed, a. Predestined, or consigned to hell.

Milton Hel'le. (Gr. Myth.) A daughter of Athamas, and sister of Phriaus. She fell from the golden-fleeced ram, and was drowned in the strait which, according to the legend,

thus received the name of Hellespont.

Hel'leborism, \*\*. A preparation of hellebore, used as

Helleb'orus, n. [Lat., from Gr. helleboros.] (Bot.) The ielleb'orus, n. [Lat., from Gr. helichoros.] (Bot.) The Hellebore, a genus of plants, order Ranusculacez, consisting of perennial European herbs, with palmately or pedately-divided leaves, of a paler green, and more rigid than in most other plants of the order. The most important species is H. niger, the black hellebore, so called from the color of its roots. It is a native of the shady woods of the lower mountains in many parts of Europe.



Fig. 1267. - THE MELLEBORE.

It flowers in winter, and on this account is sometimes It flowers in winter, and on this account is sometimes called the White Christmas-rose. Hellebore-root is imported in bags and barrels from Hamburg, and is used medicinally as a drastic purgative. The species H. officinalis viridis and factidus, the Bear's-foot, possesses similar properties. The derivation of the term is from the Gr. helsin, to destroy, and born, food for cattle, — because on account of its poisonous qualities it is unfit to be astan by cattle.

eaten by cattle.

Hel'leflin'ta, or Hälleflinta, n. [Swedish.] (Min.)
False flint; a name applied to both Albite and Ortho-

False flint; a name applied to both Albite and Orthoclass, q. v.

Hellen, the son of Deucalion and Pyrrha. See Hellas.

Hellen, in Pennsylvania, a post-village of Elk co, about 170 m. N.W. of Harrisburg.

Helle'miam. Hellen'ie, a. [Gr. Hellënikos, Hellënikos, Pertaining to the Hellenes, or inhabitants of Greece; Greek; Grecian.

Hellen'ie, n. The name given to the common dialect which prevailed very generally among the Greek writern after the time of Alexander. It was formed, with very slight variations, from the pure Attic of the age preceding its introduction.

ing its introduction.

Hellenisms, n. [Gr. Hellenismos.] A phrase in the idiom, genius, or construction of the Greek language; a Greecism.

Hellenist, n. [Fr. Helleniste; Gr. Hellenistes.] A follower of the Greeks in language, manners, &c.; a Grecian

A Grecian; one versed in the Greek language

-A Grecian; one versed in the Greek language.

pl. The name given to those Jews who, from their foreign birth or travel, used the Greek (Hellenic) language,
and who are distinguished under this appellation in the
Acts of the Apostles. There were great numbers of
Jews scattered throughout the Roman empire at this
period, more especially in the Asiatic and E. African
provinces, where the Greek was the current language.
From their long solourn in foreign countries, they were
distinguished from the Hebraist, or native Jews, by the
greater liberality of their views with respect to the

nature of the promises in the Old Testament. It appears from Acts vi. 1, that these Jows retained the distinctive name of Hellenists after their conversion to Christianity, and that there continued to subsist some jealousy between them and the native Christians.

Hellenis'tic, a. [Fr. Hellenistique.] Pertaining to the Hellenists; as, Hellenistic Greek, i. e., Greek intermingled with Hebraism.

m. The name given to that dialect of the Grecian lan-guage which was used by the Jewish writers. Its pecu-liarities consisted in the introduction of foreign words very little disguised, but more especially of Oriental metaphors and idioms; but not at all in the inflexions of words, which were the same as in the Hellenic.

Hellenis'tically, adv. According to the Hellenic

Hellenize, v. a. [Gr Hellenizein.] To use or practise

Helicapont. See Dardanelle.

Helicapont tine. a. [Lat. Helicaponticus; Gr. Helicapont.]

Helicapont. See Dardanelle.

Hell Gate, in Montana, a township of Missoula co

Pop. (1890) 5,433.

Hell Gate, or HURL GATE, in New York, a narrow, rocky pass in the East River, about 7 m. N.E. of the Battery. The name is a corruption of the old Dutch word HORLIGATT, signifying whirl-passage, or whirlpool strait, which was applied to the place on account of the daugerous which the correctly required here at certain tides. The dangerous was applied to the place on account of the dangerous eddies formerly produced here at certain tides. The rocks which caused these eddies have been removed and navigation rendered safe. For full account of this operation, see Hell Gare, in Sectron II. Hell'-hase, n. A hag of hell; an infernal old witch. Hell'-hased, a. Abhorred as hell; as, "the hell-hated lie"—Rates.

- Shaks lie

Hell'-haunted, a. Haunted by the devil, or infer nal spirits.

Round to the fate of this hell-hounted grove. Hell'hound, n. A dog of hell; an agent of hell.
Shaks. Millon.

Hell'heund, n. A dog of hell; an agent of hell. Shaks. Millon.

Hellim. (hel'lan.) a town of Murcia, in Spain, 35 m.

8.E. of Albecte. Manaf. Hata, woollens, and linens. Inp. 10,814.

Hell'ish, a. Pertaining to hell; partaking of the infernal qualities of hell; infernal; abborrent; wicked; detestable; as, a hellish deed.

Hell'ishly, adv. Infernally; in a manner suggestive of hell; with extreme malignity; detestably; wickedly.

Hell'ishlwess, n. The qualities of hell or of its occupants; enormity of wickedness; malignity; impiety.

Hell'-istite, n. A kite of an infernal breed. — Shaks.

Hell'ore, a range of mountains in N. Greece, being a spur of the ancient Mons Pindus; height, 5,570 ft.

Hell's Kerries, a cluster of small islands belonging to the Hebrides, 10 m. 8.W. of Uist, and having an extremely rapid current running between them.

Hell'ward, a. Toward hell. "Hellward turn their farce." — Pops.

Hell'y, a. Having hellish characteristics.

Helm, n. [A.8. helma; Ger. helm, a helve, a handle, probably from hallen, to seize, to hold; allied to haben, to have, to hold.] (Naut.) The mechanism of the sterrows of which compresses these distinct, nortions, the

probably from hallen, to seize, to hold; allied to nacen, to have, to hold.] (Naul.) The mechanism of the steerage of a ship, comprising three distinct portions—the rudder, the tiller, and the wheel; though in small craft the last item is commonly wanting. To put the helm a-starboard, is to put the tiller over to the right side; apport, to the left (or larboard) side; up, to the weather that down to the lee side. Station of government; place of direction or manage

ment

"Patriots mann'd the ship of state, With Chatham at the helm." — Davice.

—The stalk of grain. See HAULM.
—v. a. To cover with a helmet; as, "helmed cherubim.

the Greeks and Romans were mostly open, and not unlike skull-caps in shape. So me had a contrivance to protect the nose, and a the nose, and a bar or bars from the forefrom the lore-head to the chin, to guard against the transverse cut. of a sword. A close helmet entirely covers the head, face, 1. and neck, hav-

ing perfora-



Fig. 1268.

barred helmet; 2, a morion; 3, an op head-place; 4, an iron hat or pot.

tions in front for the admission of air, and slits through tions in front for the admission of air, and slift through which the wearer may see the objects around him. This part, which is styled the visor, lifts up by means of a pivot behind each ear. The beaver (from breer, to drink), used to enable the wearer to eat and drink, is sometimes attached to a close helmet. It covers the mouth and chin when closed, and either lifts up the mouth and chin when closed, and either lifts up by revolving on the same pivots as the visor, or lets down by means of two or more pivots on each side near the jaws. Over the top of the helm rose an elevated ridge called the crest, which usually represented a lion, a wolf, or some other device to make the warrior appear tailer and more terrible. In heraldry, the helmet is placed above and upon the shield, and usually bears the crest. For the various forms used to denote the bear-er's rank or station, see art. Heraldry. -Anything resembling a helmet in form, situation, &c.; as, (1.) The upper part of a retort; (2.) The heavy cap of clouds hanging on the summit of a mountain, (used in some parts of England;) (3.) The hooded upper sepal of certain flowers.

m some parts of England, (c), Inc. in clouds diper separ of certain flowers.

Hel'me, a river of Prussia, prov. Saxony, rising in the Harts Mountains, and falling, after a N.W. course of 45 m., into the Unstrut near Artern.

Helm'et-sheeld, a. (Bod.) Having the appearance of a helmet; galeate, as certain flowers.

Helm'et-sheeld, n. (Conch.) A family of shells, of which there are several species, mostly found on tropical shores. They are inhabited by molluscous animals (genus Classis), some of which grow to a very large size, requiring of course a corresponding magnitude of shell. The back of the Helmet-shell is convex, and the under part flat; the mouth is long and narrow; the lip is strongly serrated, and rises into a high thick border or ledge on the back; and the pil-

ledge on the back; and the pil-lar is generally strongly toothed, and beset with small asperities.



and beset with small asperities.

The shells of the Cussis rufa and other species are beautifully sculptured by Italian artists in imitation of antique cameos, the different layers of coloring-matter resembling the onyx and other precious stones formerly used for this purpose.

Helm holts, Hermann Ludwig Ferdinand, one of the most distinguished German physiologists of the present day, born 1821, in Potsdam, is professor of physiology at Heidelberg. His scientific reputation was founded on his pamphlet, Ueber die Erhaltung der Kraft, (Berlin, 1847.) He is the discoverer and inventor of the Ophthalmoscope, for the examination in the hall of the eye, 1847.) He is the discoverer and inventor of the Ophthalmoscope, for the examination in the last of the eye. (1851.) His most important works are, Handbuch der Physiol. Optik (1856-66), and Die Lehrs von den Tourmfindungen (1862)—two works which have created a great revolution in their departments.

Hel'miek, in Ohio, a post-office of Coshooton co.

Hel'minth, n.; pl. Helmintels. [Gr. helmius, a worm.] (Zobl.) An intestinal worm. The Helminthes correspond to the Entozoa, or Nematods, q.v. (Min.) A variety of Procolorite, q. v., occurring in slender, worm-like crystals.

Helmin'thagogue, n. [Gr. helminhos, a worm, and agein, to drive.] (Mcd.) Whatever destroys or expels worms.

Helminthi'asis, n. [From Gr. helminthos.] (Med.) A disease in which worms, or the larve of worms, are bred under the skin, or some external part of the body.

Helmin'thie, a. [Fr. helminthique, from Gr. helminth

worms.

—n. A vermifuge; an anthelmintic.

Helmin'thoid, a. [Gr. helmins, worm, and eidos, shape.] Worm-like in structure; belonging to worms.

Helminthologique.] Belonging to worms; having reference to the history of worms.

worms. To cover with a helmet; ss, "helmed cherubim."

Miltons.

Helm'age, n. Direction; guidance; steerage, (a.)

Helmathelog'ical, a. (ZoZ.) Pertaining to worms.

Helmathelogy, a. (Gr.helmius, and logos, treatise.)

The natural history of worms.

B. A. Bernsela, 1577. Being rendered independent by his marriage with a lady of property in 1609, he displayed his benevolence be the distormant of the direction of the control of th covery, but there is also a fund of valuable truth under the obscure terms which are generally regarded as the mere conceits of his imagination. The archeus, for ex-ample, which makes a conspicuous figure in his works, is the mover of all the functions in the animal economy, and may be regarded as the vital aura which was in this century the subject of so much popular curiosity, and the ridicule of so many learned professors. It was from the archeus that Berthez derived his idea of a vital prin-ciple, and oversted a revolution in physiology. The ciple, and operated a revolution in physiology. The same element, or spiritual essence of life, is recognized by nearly all the old philosophers under different names. by nearly all the old philosophers under different names, and there is now every prospect of its coming within the pale of experimental philosophy. Of course, it is not pretended to deny that Helmont's works abound in crude notions, and wild fantastic theories, but even in tnesse cases the imaginattice may often find the road to some true, and now forgotten principle, from which the author wandered away in the ignes-fatui with which he surrounded himself. Apart from all this, he was a perfect master of his art, and there is evidence of the associating curse he nerformed as a physician. He died tonishing cures he performed as a physician. He died

in 1644, and in 1648 his collected works were published by his son, Francis Mercure Van Helmont, who was also a speculative writer, and lived 1615-1699. Helms'ley, a town of Eugland, in Yorkshire, near the Rye, 12 m. from Thirsk. Manuf. Cottons and lineas. In its vicinity are the remains of the famous abbey of Ri-

its vicinity are the remains of the famous abbey of Rivaulx. Pop. 4,000.

Helms'mam, n.; pl. Helmsman. (Naut.) The man at the helm of a ship; a steersman.

Helm'stadt, a town of Prussia, 21 m. E.N E. of Brunswick. Manuf. Soap, alum, vitriol, chickory, tobaccopipes, &c. Pop. 7,420.

Hel'mund, a river of Afghanistan, which rises 35 m. N.E. of Cabul, at a height of 11,500 feet above the level of the sea, and after a S.W. course of 400 miles, falls by several mouths into Lake Hamoun.

Helm'swind, n. A wind blowing from a certain kind

several mouths into Lake Hamoun.

Helm'-wind, n. A wind blowing from a certain kind of cloud.—See Helm.

Heloïse, abbess of the Paraclets. See Abelard.

Heloïse, abbess of the Paraclets. See Abelard.

Heloïnias, n. [Gr. helos, a marsh — where some species grow.] (Bot.) A genus of plants, order Melanthaces.

They are bulbous herbs, having leaves mostly radicle, narrow, often gramineous, sheathing at base, and flowers in a terminal simple raceme. H. diorca, the Unicorarout, found in low grounds from Canada S. to Georgia, is distinguished by its small, numerous greenish-white flowers, in long terminal spicate racemes.

Hel'otimm, n. The servitude of the Helots; slavery.

Hel'otry, n. The Helots taken collectively; any similar class of slaves.

Hel'ot, n. pl. (Gr. Hist.) The inhabitants of the town

mer Gury, n. The Heiots taken collectively; any similar class of slaves.

Hel'ots, n. pl. (Gr. Hist.) The inhabitants of the town of Helos, in Laconia, captured by the Spartans, z. c. 700, were employed either as domestic slaves, cultivators of the land, or in the public works; and, being cruelly treated, often rose in rebellion. This was the case during the great earthquake, z. c. 464, and in the Peloponesian war, z. c. 420. The term was afterwards applied to all captives condemned to servitude.

Help, v. a. [A.S. helpan; Ger. helfen; Icel. hialpa; Goth. hilpan; Lith. zelpla; Sanak. klep, to become the cause of; in one of its forms kalpaysimi.] To lend strength or means towards effecting a purpose; to assist; to aid; to support; as, to help another in his work; to help one in the acquisition of knowledge. &c. — To succor; to relieve: as, to help a fellow-creature in distress, to help a person out of difficulty. — To cure, or to mitigate pain or disease; — frequently with of hefore the denomination of the sickness or hurt; as, "The true calamus helps cough." — Gerard.

"Love doth to her eyes repair, to help him of his blindness."

To remedy; to change for the better.

\* Cease to lament for that thou canst not help." — Shah "Cease to issuest tor tent the cannot help his infirmities.

—To forbear; to avoid.

"He cannot help believing that such things he saw and heard."

Atterbury.

To help over, to enable to surmount.

"Help them presently over the difficulty." — Locks.

To help a lame dog over a stile, to assist or support one when in a difficult position, or critical emergency.

(Colleq.)

To help forward, to promote by assistance rendered.

"And they helped forward the affliction." — Zech.

To help off, to remove by help. — To help on, to forward; to advance by aid or support, as, to help a derving man on. — To help up, to raise, as after a fall; to sustain, or assist to restore; as, after his bankruptcy his friends helped him up. — To help to, to supply, equip, or furnish with; as, we helped them to their outfit, allow me to help you to wine. — To help out, to render aid in extricating from a trouble or difficulty, or in furthering a design. a design.
-v. n. To lend aid; to render assistance or support; to

contribute means; to furnish strength or sustenance.

"Discreet servants help much to reputation." - Bacon

To help out, to bring a supply; to furnish succor. **Help**, n. [A. S. help, helpe; Ger. hillf, hillfe.] Aid; as-sistance; succor; that which gives assistance; he or that which contributes to advance a purpose.

" His ready help was always nigh." - John

"His ready help was always nigh." — Johnson.

—Remedy; relief; cure. — "Something between a hindrance and a help."—Wordsworth.

—One who helps or assists; particularly a hired laborer or domestic servant. (Used in the U. States.)

Help'er, n. One who helps, aids, or assists; an anziliary; an assistant; as, a helper in a stable. — One who furnishes or administers a remedy, or supplies with anything wanted

furnishes or administers a remedy, or supplies with anything wanted.

Help full, a. That gives help, aid, or assistance; that furnishes means of promoting an object; useful; auxiliary; wholesome; as, "helpful medicines." — Sir W. Raleigh.

Help fullness, n. Assistance; usefulness.

Help fullness, a. Without help in one's self; destitute of the power or means to succor or relieve one's self; destitute of support or assistance; weak; feeble; inert; as, a helpfus infant. — Irremediable; incapable of, or be youd help. — Bringing no help. — Unsupplied; void of; destitute.

Help flessly, adv. In a helpless manner; without succor.

Help'lessly.adv. In a helpless manner, without succor

Help'lessip, adv. In a helpless manner, without succor.
Help'lessness, n. State of being helpless; want of strength or ability.
Help'mate. Help'meet, n. A companion who helps; an assistant; a helper; a wife.
Hel'singborg, a scaport of Sweden, on the Sound opposite Elsinore, 33 m. N.N.W. of Malmö. Mansif. Earthenware and iron goods. The Sound being at this point little over three miles in width, H. forms the great ferry between Denmark and Sweden.



HEME

a tie, a bond, a fastening.] The border of a garment, doubled and sewed to strengthen it, and prevent the ravelling of the threads. — Edge; border; margin; confine; as, the "hem of the sea." — Shaks.

-c. a. To form, as a hem or border; to fold and sew down, as the edge of cloth to strengthen it; as, to hem a hand-basehief. To border, to edge.

kerchief erchief. — To border; to edge.

To hem around, in, or about, to inclose; to surround

to environ; to confine. " Hemmed in to be a spoil to tyranny." - S. Do

Hem, n. A particular sound uttered by the human voice, and expressed by the word hem, indicative of hesitation, incredulity, or indifference.

"I would try if I could cry hem, and have him." - Shake. n. To make the sound expressed by the word hem.

"First he hemm'd, and next he haw'd." - Davies. An exclamation whose utterance is a sort of

voluntary half-cough, loud or subdued, as the may suggest.

Hem'achate, n. [Gr. aima, blood, achates, agate.]

Mem'achate, n. [Gr. aima, blood, achates, agate.]
(Min.) A name given by Pliny to a variety of agate, probably light colored with spots of red jasper.
Hemastronm'eter, n. [Gr. aima, blood, dromus, course, and metron, measure.] (Physiol.) An instrument for measuring the velocity with which the blood moves

in the arteries

in the arteries.

Hemadymamom'eter, n. [Gr. aima, blood, dumamic, power, and metron, a measure.] (Physiol.) An instrument for ascertaining the presence of the blood in the arteries and veins by means of a graduated scale.

He'mal, a. [Gr. aima, blood.] Having reference, or pertaining to the blood, or blood-ressels.

He'mans, Felicia Dobother, an English poetess, B. at Liverpool, 1796, D. 1846. Her chief works are, The Prest Sinctuary; Records of Women; Scenes and Hymns of Life; The Veppers of Pulerino; National Lyrics, and Songs for Music. She was for a time very popular in this country, where her works have been frequently reprinted.

Hemastatics, Hæmastatics, n. pl. (Med.) The

Hemastatics, Hemastatics, n. pl. (Mcd.) The statics of the blood and blood-vessels. Hemastetme'sis, n. [Gr. aima, and emeo, to vomit.] (Mcd.) A vomiting of blood.
Hem'stherm, n. [Gr. aima, and therma, heat.] An animal which has warm blood.
Hem'stine, n. [Fr., from Gr. aimatikos, of the color of blood.] (Chem). The coloring-matter of the blood.—Also the coloring principle of log wood; Hemastrin, q.v.
Hem'stice, Hemastice, n. [Gr. aima, blood, from the color of its powder.] (Min.) The native sesquioxide of iron, FegO. Its color varies from dark-gray to black. Sp. gr. 45-5-3. Its streak and powder are blood-red. Cump. Oxygen 30, iron 70. Specular iron is a var. of H. often found in fine crystals of brilliant colors. Clay, iron, stone, or argillaceous H. consists of H. mixed with clay, sand, and other impurities; and when of a red color and oblitic structure it is called lenticular iron ore. Red chalk is an earthy variety of H. mixed with clay. H is often found in columnar or stalactic forms and in radiated, fibrous masses. It is a valuable iron ore, but yields a good quality of iron. Its powder is used as a yields a good quality of iron. Its powder is used as a coloring material, and for polishing metals. H. is widely diffused and yields much of the iron made in some countries. Vast quantities of it are found in the U. States, especially in northern Michigan and in Missouri, where the two mountains Pilot Knob, 650 feet high, and Iron Mountain, 200 feet high are composed chiefly of this ore. — Brown H. See Limonite. — Black H. See Psilo-MELANE

HELANS.

Hem'atite, in Missouri, a post-village of Jefferson co., abt. 36 m. 8. by W. of St. Louis.

Hematit'le, a. Pertaining or relating to hematite; composed of or resembling hematite.

Hematiceele, n. [Fr., from Gr. aimatos, blood, and kile, tumor.] (Med.) Hernia from extravasation of blood.

Hematicely, n. [Gr. aimatos, and logos, treatise.] (Med.) That part of medical science which pertains to or treats of the blood.

Hematicsine, n. [Fr., from Gr. aimatos.] (Chem.)

The red coloring-matter of the blood.

Hematicsis, n. [Gr.] (Physiol.) The transformation of the venous blood and chyle into arterial blood by respiration.

Hemato'sis, n. (Gr. (Physiol.) The transformation of the venous blood and chyle into arterial blood by respiration.

Hematox'ylim, n. (Chem.) The coloring principle of logwood. When pure it yields transparent straw-colored crystals, which dissolve in hot water, alcohol, and ether. The aqueous solution yields with ammonia a deep reddish-purple color. With various metallic oxides it yields blue and red colors. Form. CigHi40.

Hematuria, n. (Gr. aima. and ourein, to make urine) (Mcd.) Homorrhage from the mucous membrane of the urinary passages, proceeding from the kidneys, bladder, or urethra. The essential symptoms are: blood. evacuated by the urethra, precoded by pain in the region of the bladder or kidneys, and accompanied by faintness. H. is generally ascribed to exhalation. Active H. requires general or local blood-letting; diluent and cooling drinks; absolute rest; and an horizontal posture. The chronic kind is more troublesome. It requires acidulated or aluminous drinks;

and extensive dock-yards. Php. 3,143.

Helwingia coes. n. (Bot.) An order of plants, allisance Garryales. Diag. Fascicled flowers, and alternate leaves with stipules. There is but one known species in this order, H. ruscifolia, a shrubby plant found in Japan. where its leaves are employed as an esculent vegetable.

Hem., n. [A. S. hemme; probably akin to Gr. hamma, Hemely'tra, n. [Gr. hēmi, and elytren, a sheath.]

The name given to the superior wings or wing-covers of Tetrapterous insects, when they are coriaceous at the base and membraneous at the extremity, as in the

of Tetrapterous insects, when they are coraceous at the base and membraneous at the extremity, as in the sub-order Hemiptera.

Hemeralo pla, n. [Gr. hēmera, day, and opsis, sight.] (Med.) Night-blindness. A peculiarity in the sight, in which persons see in broad daylight, but not in the evening; it is said to be endemic in some parts of Europe, and of the W. Indies. The pupil is generally more dilated and less sensible than in healthy eyes. It is sometimes relieved by tonics and gentle stimulants, with the occasional application of blisters behind theears. Hemerobap tists, n. pl. [Gr. hēmera, and baptisō. I baptize.] (Eccl. Hist.) An ancient sect among the Jews, so called from washing themselves as a religious solemnity every day. It is thought by some that the Christians of St. John, or Sabians, descended from them. Hemerocal Tis., n. [Gr. hēmera, the day, and kallus, beautiful, — flowers beautiful, but lasting only a day.] (Bot.) The Day-lily, a genus of perennial plants, order Liliacze, having a perianth with a bell-shaped limb, and sub-cylindrical, and globose seeds with soft testa. Several species are cultivated in our flower-gardens, especially the fragrant Yellow Day-lily, H. flava, a native of Henery and Silveria.

eral species are cultivated in our flower-gardens, especially the fragrant Yellow Day-lily, H. flava, a native of Hungary and Siberia.

Hemis-. [Gr. hēmi.] A Greek prefix, denoting the half of anything; used in a similar sense as the Lat. seni, and Fr. demi.

Hemi-learp, n. [Gr. hēmi, and kartos, fruit.] (Bot.) A half-fruit of Apiaces; sume as Mericarp.

Hemiermisla, n. [Gr. hēmi, and kranson, the skull.] (Med.) A pain that affects only one side of the head. It is generally nervous or hysterical, sometimes bilions; and in both cases sometimes comes at a regular period, like an ague. When it is accompanied by a strong pulsation like that of a nall piercing the part, it is denominated claus.

Hem'leyele, (-sī'kl,) n. [Gr. hēmikyklos; Lat. hemi-

Hemi'leyele, (\*\*i'kl,) n. [Gr. hēmityklos; Lat. hemicycius.] A semi-circle; a half-circle.

Hemidae'tyl, n. [Gr. hēmi, and dactyl, q. v.] (Zoil.)
Having an oval disc at the base of the toes, as is the
case with some species of Saurian reptiles.

Hemidee'mus, n. [Gr. hēmi, half; demos, a bond.]
(Bot.) A genus of plants, ord. Azelprādacez. The root
of H. Indicus, the Indian sarsaparilla, is used in medicine, and considered in India as an efficient substitute
for true sarsaparilla in the treatment of scrofulous,
syphilitic, and cutaneous affections.

Hemis'muous, a. [Gr. hēmi, and aanas. marriasa!

synmici, and cutaneous anections. demisgramous, a. [Gr. hēmi, and gamos, marriage.] (Bot.) A term employed in speaking of grasses, when, of two florets in the same spikelet, one is neuter and the other unisexual, whether male or female, as in *lache*-

Hemiglyph, (hėm'i glif,) n. [Gr.hėmi, and glyphė, a piece of carving.] (Arch.) The half-channel at the edge of the triglyph tablet in the Doric entablature.

Hemihedral, a. [Gr.hėmi, and edra, base.] ('rystallog.) Applied to a crystal which has only half the number of faces required by the general law of symmetric.

metry. **Hemihe'drally**, adv. In an hemihedral manner. **Hemihe'dron**, n. (Crystallog.) A solid hemihedrally derived, as the tetrahedron.

derived, as the tetrahedron.

Heminorphie, (hėni-imorfik,) a. [Gr. hėmi, and morphė, form.] (Crystallog.) Baid of a crystal, the two ends of which are medified with unlike planta.

Hemina, n. [Lat., from Gr. hėminus, half.] (Antiq.) A. Roman measure = the half of a sextarius = three quar-

ters of a pint.

koman measure — the half of a sextarius — three quarters of a pint.

(Mcd.) About ten fluid ounces.

Hemioctahe/dron, n. [Gr. hēmi, and octahedron, q. v.] (Crystallog.) A terahedron.

Hemiolog amous, a. [Gr. hēmi, olos, entire, and gamos, marriage.] (Bot.) Applied to grasses, when in the same spikelet one of two florets is neuter, and the other hermaphrodite, as in several species of Funcium.

Hemio/pia, Hemiop'sia, n. [Gr. hēmi, and ōps, the eye.] (Mcd.) A disordered vision, in which objects appear divided.

Hemiplegia, Hemiplegy, (hemi-plejiga,) n.

[N. Lat. hemiplegia, hemiplezia; Gr. hēmiplezia, from pičsu, I strike.] (Mcd.) Paralysis of one side of the body.

Hemiprismat'ie, a. Half-prismatic.

(Crystallog.) Relating or pertaining to a half-prism.

Hemip'tera, n. pl. [Gr. hēmi, and pterm, a wing.]

(Zidl.) A sub-order of haustellated insects having their wing-covers formed of a substance intermediate between

wing-covers formed of a substance intermediate between the clytra of beetles and the other ordinary membranous wings common to most insects. When the Hemiptera wings common to most insects. Well the riempters quit the egg, they have the appearance of small hexapod larve, differing but little from the perfect insect, save in the absence of wings; and before these latter are acquired, the skin is shed several times, and the larva acquires a much larger bulk. Coada canicularis (Fig. 598), and the Bed-bug, Cimez lectularius, are examples

598), and the Bed-bug, Cimex lectularius, are examples of the family of Hemiptera.

Hemip'teral, Hemip'terous, a. (Zoöl.) Pertaining, or having reference to the hemipterans.

Hemisphere, (hemi-sfer.) in. [Lat. hemispherium: Gr. hēmispharium.] (Geom.) The half of a sphere cut off by any plane passing through the centre.

(Astron. and Geol.) The field of the heavens and the earth is divided into the northern and southern hemispheres by a plane passing through the counter. spheres, by a plane passing through the equator; and the latter is also divided into the eastern and western hemispheres, by a plane passing through the 30th me-ridian W. of Greenwich.

(Geog.) A map or projection of half the terrestrial or celestial sphere on a plane.

-pl. (Anat.) The two moieties of which the cerebrum is

chiefly composed; in man and mammalia they approach

Hel'sing form, a seaport-town and cap. of Finland, on a peninsula in the Gulf of Finland, 100 m. E.S.E. of Abo; Lat. 60° 11′ N., Lon. 24° 57′ E. It has a good harbor, which can accommodate line-of-battle ships, and is defended by the almost impregnable citadel of Sweaborg, standing on a cluster of rocky islands. The town is on a cluster of rocky islands. regularly built, and possesses a university, brought hither from Abo in 1827, a library of 80,000 volumes, also from Abo; a museum, observatory, state-house, churches, and a botanical garden. Manuf. Sail-cloth and lineus; it also carries on a trade in corn, timber, &c. Hel'stome, a town of Cornwall, England, 15 m. 8.W. of Trure, and 242 8.W. of London, on the Lose. Manuf. Shoes, with a considerable trade in iron, coal, and timber.

ber.

Hel'ter-skel'ter, adv. [Du. holder-de-bolder, topsytury, in confusion.] A cant term denoting in hurry and confusion. (Colloquial.)

Hel'tonville, in Indiana, a post-village of Lawrence co., abt. 8 m. N.E. of Bedford.

Hel've, m. [A. S. helf, from healdan, to hold.] The handle of an axe or hatchet; as, "The slipping of an axe from the helve."—Raleigh.

—v. a. To furnish or fit with a helve, as an axe.

on the border between Westmoreland and Cumberland, 3,313 feet above the sea.

Hel'ver, s. Among miners, the handle of a tool.
Hel'vetans, s. (Ain.) A mineral from the gneiss rocks
of the Alps, of a waxy lustre, and gray, reddish, or
greenish color. It is micaceous in composition. Sp.

Helve'tia. the country inhabited by the Helvetii, q. v

Helwe'sia, the country inhabited by the Helvetis, q. v., now Switzerland.

Helwe'tia, in Penna., a post-office of Clearfield co.

Helwe'tia, in W. Virginia, a post-vill. of Randolph co.

Helwe'tia, in W. Lieberia, Pertaining to Switzerland (ancient Helvetia); as, the Helvetia Confederation.

Helwetii, n. pl. (hilve'she-i,) the name of a Celtic people, who, according to Casar, occupied the country between the Jura on the west, the Rhone and Lake Leman on the south, and the Rhine on the east and north.

Their country thus corresponded pretty Closely with the Their country thus corresponded pretty closely with the limits of ancient Helvetia, or modern Switzerland. It was Their country thus corresponded pretty closely with the limits of ancient Helvetia, or modern Switzerland. It was divided into four districte, or pagi, and had twelve towns and 400 villages. Incited by one of their chiefs, Orgeniz, they determined to leave their country; burned their towns and villages; and taking with them provisions for three months, appointed a general rendezvous at Geneva, in the spring of s. c. 58. Cassar, who was then at Bome, hurried off as quickly as possible to intercept them, and, arriving at Geneva, destroyed the bridge over the Rhone. The H. sent to him soliciting a passage; but, demanding some time to consider of it, he employed the interval in raising a wall or rampart on the south side of the river. Having kiven a denial to their request, the H. attempted to braik through the wall; but in this they failed. They then took another route through the country of the Sequani and Edul, followed by Cassar. When within eighteen miles of Bibracte (Antum), he left the rear of the H. and moved toward the town, in order to get supplies. On this, the H. faced about and attacked him, and a general engagement was the result. The H. fought with desperate valor, but they were at length defeated with great slaughter. Of 338,000 of the H. who left their homes, of whom 92,000 were fighting-men, only 110,000 restreated that a contract the state of their homes, of whom 92,000 were fighting-men, only 110,000 restreated. of whom 92,000 were fighting men, only 110,000 re-turned to their own country, the rest being slain in battle, or afterwards massacred. Numerous Roman castles and colonies were planted in their land, which was known as the Ager Helectionum, until it was attached to Transalpine Gaul. Having refused to acknowledge Vitellius as emperor, they suffered severely from his generals; and after that time they almost disappear

as a people.

Helwe'tlus, CLAUDE ADRIEN, (hel-we'she-us.) a French
philosopher of Swiss origin, B. in Paris, 1715. The
celebrity he at one time enjoyed rests on his work De
FEpprit, a treatise on theoretical and practical morality,
in which he endeavors to prove feeling (sensibilité) to
be the source of all intellectual activity, and that the
grand lever of all human conduct is self-satisfaction.
But he admits, at the same time, that self-satisfaction of
assumes different forms; e. g., the self-satisfaction of a
good man consists in the subordination of private to
more general interests—first, to the circle among which
he lives; then to the community; and finally, to the he lives; then to the community; and, finally, to the world at large. H. was a gool and keen observer; hence, the saying of Madame du De.fand, "C'est un hommequi a dit le secret de tout le monde." Besides his Esprit, he a dit le secret de tout le monde." Besides his Expril, he wrote a treatise De l'Home. They are loose and wearisome in the main; and before recommending their perusal even to a student with fullest leisure, it would be fair to say, that everything good in them may be obtained at a much cheaper rate. D. 1771.

Hel'vite, Hel'vine, n. [Gr. helios, the sun, from its yellow color.] (M.n.) A yellow mineral of vitreous lustre, from Schwartzenberg, Saxony. It is composed of the silicates of manganese, glucina, and iron, and the sulphuret of manganese. Sp. gr. 3:1-3:3.

Helvoetaluys, (hel'võõt-slois.) a fortified city and port of Holland, on the S. shore of the island of Yoorn. It m.

Melwoetsluys, (hel'rööt-slois.) a fortified city and port of Holland, on the S. shore of the island of Voorn, 16 m. S.W. by W. of Retterdam. H. has an excellent harbor, and extensive dock-yards. Prp. 3.143.

Helwingia cose. n. (Bot.) An order of plants, alliance Garryales. Diao. Fascicled flowers, and alternate leaves with stipules. There is but one known species in this order, H. ruscifolia, a shrubby plant found in Japan. where its leaves are employed as an esculent vertable.

the hemispheric form; but in most of the lower vertebrats, where the cranial cavity affords more room for the small brain, both moletics are spherical.

Hemispheric, Hemispherical, a. [Fr. hémíspherical, a. [Fr. hémíspherical, a. Pertaining to, or containing a hemisphere; as, a hemispheric figure, a hemisphered body.

Hemispheroid al., a. With a form or figure resembling that of a hemisphere.

Hemispherule, (hemisférul.) n. A half-spherule.

Hemistich, (hémistik.) n. [Gr. hémistichim—stichos, a verse.] (Lit.) In poetry, half a verse. The unfinished verses in Virgil's Æned, concerning which it is not known whether they were nurosely left in that state. known whether they were purposely left in that state, or are owing to the incompleteness of the poem, are usually called hemistichs. The Alexandrine, or French hemi-verse, requires a regular pause at the end of the first hemistich.

Hemistichal, (he-mis'tik-al.) a. Pertaining or relating

themistremat, (ne-mirth-ca.) a. Pertaining or relating to hemistichs; written in hemistichs.

Hemittone, n. [Lat. hemitoneum; Gr. hemitonion.] (Mus.) Same as SENTONS, q. v.

Hemit'ropal, Hemit'ropous, a. Half-inverted; turned half-round.

(Bot.) Applied to an ovule, the rhaphe of which terminates that half-may be them the abolars and orifical-materials. nates about half-way between the chalaza and orifice.

Hem'itrope, a. [Gr. hēmi, and trepō, I turn.] Hemitropal; half-turned round.

—n. That which has an hemitropous structure.
(Crystallog.) A term applied by some crystallographers to what are usually called twin crystals, from their being generally conceived to result from the cutting, as it were, a crystal in half, and then turning one of the halves half-round upon the other. The plane common to the two portions of the crystal is called the twin-plane. These crystals are often distinguished by the presence of notches or re-entering angles.

Hemit'ropy, n. (Crystallog.) Twin-construction in crystals.

crystals.

Hem'lo, in Illinois, a village of Whitesides co.

Hem'lock, n. [A. S. hemloc.] (Bot.) See CONTUM.

Hem'lock, in Pennsylvania, a village of Cambria co.

—A township of Columbia co.

Hem'lock Grove, in Olio, a post-village of Clark co.

Hem'lock Grove, in Olio, a post-village of Meiga co. Pop. (1897) about 100.

Hem'lock Lake, in New York, a small lake between Ontario and Livingston cos. It covers an area of about 7 ag. m.

7 sq. m.

—A village of Livingston co. (Post-office Hemlock).

Hemn'lock Spruce, n. (Bot.) The Abies Canadensis, a species of tree, genus Abies, which forms a great part of the forests of our Northern States and of Canada, extending northward as far as Hudson's Bay. Its timber is not much esteemed, as it splits very obliquely, and decays rapidly in the atmosphere; but its lark is valued for tanning. The leaves are two-rowed, flat, and obtuse. The cones are scarcely longer than the leaves. The young trees are of very graceful appearance, but the older ones are generally much disfigured by remaining stumps of their lower branches.

Hem'mael, s. (Scot. hammel.) An English provinci-

Hem'mel, s. [Scot. hammel.] An English provincialism for a shed of cattle.

Hem'miagford, a post-village of Quebec, co. of

Hem'mingtoru, a personnel.

Huntingdon.

Hem'ming's Safe'ty-jet, n. (Phys.) An arrangement for burning mixtures of combustible gases without danger of explosion. It consists of a brass tube, about 4 inches long, filled with closely packed straight pieces of fine brass wire. By this arrangement a series of long, narrow metallic tubes is formed, which absorbs the heat and prevents the passage of the flame to the reservoir

of gas.

Hemop'tysis, n. (Med.) See Hanopytsis.

Hem'orrhade, n. (Med.) See Hanopresis.

Hem'orrholds, n. pl. (Med.) See Hanopresis.

Hemp, n. [A. S. henep; Ger. hanf; Gr. kannabis.

(Bot.) The common name of the genus Cannabis, (q. r.)

Cannabis sativa, the only species, yields the valuable. (Bot.) The common name of the genus Cannabis, (q. v.)
Cannabis sativa, the only species, yields the valuable
fibre called hemp, which has been known for more than
2,500 years as a material for cordage, sacking, and cloth.
In England the plant grows to the height of about 6 ft.,
but in warmer climates it has occasionally been found
18 feet high. The principal supplies of the fibre are
derived from Russia. The fruits, commonly termed
hemp-seed, are cleaginous and demulcent, and are used
for feeding birds. When submitted to pressure, they
yield about 25 per cent, of a fixed oil, which is used for
making varnishes. In the sap of the hemp-plant there
exists a resinous substance which has extraordinary
marcotic properties. In the northern climates the promaking varnishes. In the sap of the hemp-plant there exists a resinous substance which has extraordinary narcotic properties. In the northern climates the proportion of this resin in the several parts of the plant is so small as to have escaped general observation; but in the warmer regions of the East the resinous substance is sufficiently abundant to exude naturally from the flowers, leaves, and young twigs. The Indian hemp, which is so highly prized for its narcotic virtues, is considered by some botanists to be a distinct variety, and is distinguished by them as C. sativa, var. Indica. This herb, and the resin obtained, are largely employed in Asia, and in some parts of Africa and S. America, for the purposes of indulgence. The whole plant dried is known by the name of gunjah in the markets of Calcutta. The largest leaves and seed-capsules separated from the stalks are called bang, subje, or sidner. The tops and tender parts of the plants, collected just after the flowering-time, are in some places sold under the name of hashish. The dried flowers, called kief in Morocco, contain so much of the narcotic principle that a small pipe filled with them, if smoked, will suffice to intoxicate. The dried pistils of the flower enter into intoxicate. The dried pistils of the flower enter into

the composition of the Turkish madjoun. The resin which naturally exudes from the leaves and flowers, when carefully collected by hand, is known as momea; the same, when beaten off with sticks, is sold under the mame of churrus. An extract obtained by the use of butter, when mixed with spices, forms the davance of butter, when mixed with spices, forms the davance of butter, when mixed with spices, forms the davance of butter, when mixed with spices, forms the davance of butter, when mixed and sometimes chewed. Five or ten grains is smoked, and sometimes chewed. Five or ten grains is moked, and sometimes chewed. Five or ten grains freduced to a powder are smoked from a common pipe along with ordinary tobacco, or from a water-pipe with a peculiar variety of tobacco called tombeks. The resin and resinous extract are generally swallowed in the form of pills or boluses. The hemp-plant and its preparations appear to have been used from very remote times. The effects of the natural resin, or churrus, have been carefully studied in India by Dr. O'Shaughnessy lle states that when taken in moderation it produces increase of appetite and great mental cheerfulness, the single question of bris histories and sometimes of bris histories and sometimes from the leaves and flowers.

Hemp/stead, in Teras, a city, cap, of Walker co., on the Mempstead, in Teras, a city, cap, of Walker co., on the Mempstead, in Teras, a city, cap, of Walker co., on the Mempstead, in Teras, a city, cap, of Walker co., on the Mempstead, in Teras, a city, cap, of Walker co., on the Mempstead, in Teras, a city, cap, of Walker co., on the Mempstead, in Teras, a city, cap, of Walker co., on the Mempstead, in Teras, a city, cap, of Walker co., on the Hempstead, in Teras, a city, cap, of Walker co., on the Hempstead, in Teras, a city, cap, of Walker co., on the Hempstead, in Teras, a city, cap, of Walker co., on the Hempstead, in Teras, a city, cap, of Walker co., on the Hempstead, in Teras, a city, cap, of Walker co., on the Hempstead, in Teras, a city, ca



Fig. 1270. — HEMP, (Cannabis sativa.) e inflorescence; B, female inflo

A, male inforescence; B, female inforescence.
while in excess it causes a peculiar kind of delirium and catalepsy. The effect produced by hemp in its different forms varies, like that of opium, both in kind and in degree, with the race of men who use it, and with the individual to whom it is administered. Upon Orientals its general effect is an agreeable and cheerful character, exciting them to laugh, dance, and sing, and to commit various extravagances. It, however, renders some excitable and quarrelsome, disposing them to acts of violence. It is from the extravagant behavior of individuals of this latter temperament that the use and meaning of our word "assassin" have most probably arisen, the word having been derived from haschischin, a hashish-eater. As a medicine, Indian hemp was tried by Dr. O'Shaughnessy in rheumatism, hydrophobia, cholera, and tetanus. In the last such wonderful cures were effected, that the hemp was pronounced an anticonvulsive remedy of the greatest value. Pereira calls it an exhilarant, inebriant, phantasmatic, hypnotic or soporific, and stupefactent or narcotic. The extract made in India, and then imported, has been found to be much stronger than that made in this country. This fact seems to prove that the plant is materially injured by the voyage. — Hemp-culture requires a rich, kindly soil, in good heart, free of weeds, and capable of enduring extremes of wet and also dry seasons, to find which the sub-soil must be examined as well as the surface. Millions of acres of fertile corn-lands in the Western States have surface-soils entirely suited to hemp-culture, but, from the retentive nature of their clayey sub-soils, but, from the retentive nature of their clayey sub-soils, while in excess it causes a peculiar kind of delirium States have surface-soils entirely suited to hemp-culture States have surface-soils entirely suited to hemp-culture, but, from the retentive nature of their clayer sub-soils, hemp cannot be successfully cultivated year by year without thorough under-draining. Favorable soils are found in great perfection on the alluvial bottoms of the Mississippi and the Missouri rivers, and some of their branches. If the ground is rich, does not hold water standing on the surface after heavy rains, and in drought does not bake and crack, but has moist earth within 2 or 3 inches of the surface, it possesses the subsoil for hemp-culture. The hemp crop, which once amounted to 30,000 tons in Missouri and Kentucky, has fallen to 7,500 tons. .500 tons.

Hemp'eng rimony, n. (Bot.) The Eupatorium Can-nabinum, a species of rough, perennial plant, genus Euparonium, q. v. Hemp'en, a. Made of hemp.

Hemp'en, a. Made of hemp.

"About his neck a kemper rope he wears." — Spenser.

Hemp'field, in Pennsylvania, a village of Lancaster co., about 40 m. S.E. of Harrisburg.

—A township of Mercer co.

—A township of Westmoreland co.

Hemp'hill, in Georgia, a post-village of Fulton co.

Hemp'hill, in Texas, a post-village, cap. of Sabine co.

Pop. (1871) about 335.

Hemp'sidge, in Kentucky, a post-office of Shelby co.

Hemp'seed, s. The seed of hemp, used either as seed, or for crushing for oil, or as food for fowls.

Hemp'stead, in Arkansas, a S.W. co.; area, about 742 sq. m. Ricers. Red and Little Missouri rivers, and Bois d'Arc creek. Surface, generally level; soil, fertile.

Cap, Washington. Pop. (1830) 22,786.

Hemp'stead, in Georgia, a post-office of Colquitt co.

Hemp'stead, in Georgia, a post-office of Colquitt co.

Hen'ault, CHARLES JEAN FRANÇOIS, a French pe mem muss, Charles Jean Prançois, a French president of the parliament of Paria, historian and poet, a 16-5. H. is chiefly known for his Abrégé Chronologque de l'Histoire de France, which has been translated into most modern languages. D. 1770.

Henbane, n. [Hen and bane.] (Bot.) See Hydraman and Charles a

CTAMS.
Hem'bit, n. (Bot.) See LAMIUM.
Hemee, (hrss.) adv. [A. S. hrona, hronca, hence: Scot.
hymr. hence: Ger. hin; D. hrrn, away; Lat. himo, hence,
from hic; Sansk. hina, this.] From this place to another. "Discharge my followers ; let them Asuce away." - Shelt

-From this time; in the future; as, a year hence. — From this cause, ground, or reason, as a deduction or result inferred.

"Hence may be deduced the force of exercise in helping digu

-From this source, origin, or cause,

" All other faces borrowed Aence their light." - Sir J. S. From hence, is a pleonastic and vicious expression, but is sauctioned by the usage of various good authors.

"An ancient author prophesied from hence."—Dryden.

(Norz. Hence is used elliptically and in an imperative sense for go hence; begone; depart hence; away; ef with you, &c.) "Hence, horrible shadow! Unreal mockery, honce!" — Shake.

Hence'forth, adr. From this time forth or forward "Be henceforth among the gods, thyself a goddens." - Milron. Hencefor'ward, adv. From this time forward; hence

Hen'-coop, n. A coop or cage for enclosing domestic fowls.

Hendec'agon, n. [Gr. hendeka, eleven, gōnia, angle.]

Hendec'agon, n. [Gr. hendeka. eleven. gönia. angle.]
(Math.) In geometry, a plane rectilineal figure of eleven sides. The area of a regular or equilateral and equiangular hendecagon is, approximately, equal to 906561 times that of the square on one of its sides.

Hendecasyllabics, a. Pertaining to, or consisting of a line of eleven syllables.

Hendecasyllabic. Hendecasyllabic, a. [Greek hendeka, and syllabic, a syllable.] (Pros.) A verse of eleven syllabies. The Latin hendecasyllabic, of which the principal examples are left to us from the pen of Catulius, consists of a spondee, dactyl, and three trochees—Passer delicies mee puells. The Italian heroic verse, and those of England and Germany, when increased by the addition of a final short syllable, are instituted to the standard syllabic of the license of adding an eleventh syllable (and sometimes also a twelfth) is more frequently admissible in English dramatic than epic versification. versification.

versincation.

Hen'derson, in Georgia, a post-village of Houston co.

Hen'derson, in Illinois, a W. co., adjoining Iowa;
area, about 380 sq. m. Rivers. Mississippl and Henderson rivers, and Honey and Ellison creeks. Surface,
undulating; soil, fertile. Cap. Oquawka. Pop. (1890)

A post-village and township of Knox co

—A post-village and township of Knox co.

Hen'dersom, in Iosoa, a post-village of Mills co.

Hen'dersom, in Kentucky, a W. co., adjoining Indians; area, about 472 sq. m. Risers. Ohio and Green rivers, besides some smaller streams. Serfaca, nerect; soil, fertile. Cap. Henderson. Pop. (1890) 29,536.

—A thriving city and R.R. center, cap. of Henderson co, on Ohio river, 12 m. below Evansville, Ind. Pop. (1897) about 11,200.

about 11,200.

Hen'derson, in Missesota, a post-borough and township, cap, of Sibley co., on the Minnesota river, about 50 m. S.W. of St. Paul. Pop. (1835) 1,006.

Hen'derson, in Missouri, a post-village of Webster co.

Hen'derson, in North Carolina, a S.W. co., adjoining South Carolina; area, about 360 sq. m. Rivers. Freeds.

Broad river, and some smaller streams. Surface, mutatinous, the Blue Ridge bounding it on the S.E.; soil is some parts fertile. County-town, Hendersonville. Pop. (1890) 12,580.

(1890) 12,580.

An important town, cap. of Vance co., on S. A. L. and Southern R.Rs., 44 m. N.E. of Raleigh; an extensive tobacco market. Pop. (1890) 4,191.

Hen'derson, in New York, a post-village and township of Jefferson co., on Lake Ontario, about 6 m. 8.W. of Sackett's Harbor.

of Sackett's Harbor.

Hen'derson, in Penna., a post-village of Mercer co.

Hen'derson, in Tennessee, a W. central co.; sws., about 530 sq. m. Rivers. Beach and Big Sandy rivera.

Surface, level; soil, fertille. Cap. Lexington. Pop. 16,38.

Hen'derson, in Texas, a N.E. co.; area, about 500 sq. m. Rivers. Nechee and Trinity rivers. Surface, generally level; soil, fertille. Cap. Athens. Pop. 13,285.

—A post-town, cap. of Rusk co., on I. & Gr. Nor. R.B., 90 m. S. W. of Marshall. Pop. (1890) 1,536.

Hen'derson Har'bor, in New York, a post-village of Jefferson co., on Hungry Bay, an arm of Lake Ontario, about 60 m. N. of Syracuse. (See Henderson, in N.Y.)

Henderson's Cross Roads, in Tensessee, a postoffice of Wilson co.

Henderson Springs, in Tennesses, a post-village

Henderson Station, in Tenn., a P. O. of Madison co Henderson Station, in Tena., a P. O. of Madison co. Hen'derson wille, in North Carolina, a post-town, cap. of Henderson co., 21 m. S.E. of Asheville.

Henderson wille, in Tenasylenia, a village of Mercer co., about 12 m. E.N.E. of Mercer.

Henderson wille, in S. C., a post-vill. of Colleton co. Henderson wille, in Tenasses, a post-village of Sumner co., about 16 m. N.E. of Nashville.

Hendi'adys, s. [N. Lat.] (Gram.) A figure of speech wherein the same idea is expressed by two words or phrases.

words or phrases.

Hend'ley, in Nebraska, a post-office of Furnas co.

Hend'reks, in Indiana, a W. central county; area, about 400 sq. m. Ricers. Eel and White Lick rivers. Surface, level; soil, fertile. Cap. Danville. Pop. (1890) 21,498.

Hend'dricksburg, in Pennsylvania, a post-village of

-A post-village of Montgomery co.

Lucrne co.

A post-village of Montgomery co.

Hen'drick's Head, in Maine, a promontory and light-house at the mouth of Sheepoott River. It exhibits a fixed light 30 ft. above the sea-level.

Hen'driver, n. A kind of hawk.

Hen'drysburg, in Ohio, a post-village of Belmont co., about 100 m. E. of Columbus.

Hen'gist, the first Saxon king of Kent, towards the end of the 5th century, was a descendant of Woden, whom the Saxons deified. H. and his brother Horse, being called in by Vortigern, king of the Britons, to assist him in expelling the Picts, took with him his daughter Rowens, whom Vortigern became enamoured of, and married. H. then obtained the kingdom of Kent, one of the seven of the Saxon heptarchy, and in which were included Kent, Middlesex, Essex, and Surrey. D. 488.

Heng-ki'ang, a river of China, falling from the N.W. into the Yang-tae-kiang. In its course of 300 m. it has several large cities on its banks.

Hem'-harrier, Hen'-harm, n. (2061.) A species of hawk, Circus cyaneus.

Hem'-harrier, Hen'-harm, n. (2061.) A species of hawk, Circus cyaneus.

Hem'-harrier, A. A house or shelter for fowls; a hennery.

nery.

Hen'-hussy, n. Same as Corquan, q. v.

Hen'le, Frindrich Gustav Jacob, German physiologist and anatomist, born in 1800 at Fürth; was professor of anatomy and director of the anatomical institute in the University of Güttingen. As a pathologist, H. belonged to the so-called Physiological or Rational school. His experient work in this relation was Handbuck der rational school. principal work in this relation was Handbuch der ration principal work in this relation was Handbuch der ration-cellen Publobyie. Of his anatomical works may be men-tioned Handbuch der Allgemeinen Anatomie; and chiefly his excellent Handbuch der systematischen Anatomie des Menschen. Died May 13, 1885.

Hemley-on-Thannen, a town of England, county Oxford, on the W. bank of the Thames, 22 m. S. E. of Oxford and 33 W. of London, Mannf. Malt. Pop. (1897) about 4 190)

bont 4,900.

Oxford and 35 W. of London. Massif. Malt. Pop. (1897) about 4,930.

Hen'ly, in California, a post-village of Siskiyou co., on the Klamath river, about 21 m. N. of Yreka.

Hen'ma, n. (Bot.) See Lawsonia.

Hen'ma, n. (Bot.) See Lawsonia.

Henmebom (hen-batrop), a town of France, dep. Morbihan, on the Blavet, 5 m. from L'Orient. Pop. 5,057.

Hen'mepin, in Illisois, a post-village and township, cap. of Putnam co., about 15 m. N. of Springfield. Pop. of village (1890) 574.

Hennepin, in Indian Territory, a post-office of Chick-away Nation.

Hennepin, in Missessoia, an E. county; crea, about 580 sq. m. Ricers. Missessippl, Crow, and Minnesota or St. Peter's rivers. Surface, undulating; soil, fertile. Cap. Minneapolis. Pop. (1895) 217,798.

Hen'mery, n. A place or building set apart for fowls. Hen'miker, in New Hampshire, a post-town of Merrimac co., 10 m. W. by S. of Concord. Pop. (1890) 1,385.

Hen'ming's Mills, in Ohio, a post-village of Clermont co.

mont co.

Hem'-peek, e. a. To domineer over, worry or control
a husband.

But—oh! ye lords of ladies intellectual!
Inform us truly have they not hen-pecked you all? "—Byron.

Inform us fruly have they not Aen-pecked you all?"—Byron.

Hen'-pecked, a. Governed by his wife. (See the v.)

Henri, the French spelling of Henry (q. v.).

Henrico, in Virgunia, a S.E. cent. county; area, about 255 sq. Rivers. James and Chickalominy rivers.

Surface, diversified; soil, not very fertile. Min. Coal in abundance. Cup. Richmond. Pop. (1890) 103,304.

Henrict'sa, Annz, daughter of Charles I. and Henrictta Maria, born 1641. She was married to the Duke d'Orleans, and died suddeuly 1669. It was then rumored that she had been poisoned at the instigation of the Chevalier de Lorraine, a favorite of her husband, who had been exiled at her request. Her funeral oration, delivered by Bossuct, is perhaps the most splendid piece of elegiac eloquence of modern times.

delivered by Bossuet, is perhaps the most spienaus piece of elegiac eloquence of modern times.

Hemriet'ta Island, in Arctic Circle, Lat. 77° 8' N., Long, 157° 32' E. Discovered and named by Lieutenant De Long, U. S. N., of the Herald expedition, in 1881.

Hemriet'ta, in Mich., a post-township of Jackson co. Hemrietta, in Missouri, a post-township of Monroe Co., about 7 m. 8. of Rochester.

Hemrietta. in Oko. a post-township of Lorain co. Henrietta, in Ohio, a post-township of Lorain co. Henrietta, in Wis, a post-township of Richland co.

Hen'ry, the name of several sovereigns of Castile, England, France, and Germany.

CANTILE.

Henry I., s. 1205, reigned 1214-1217.—Henry II., Count de Trastamara, B. 1333, maintained a contest for the throne, which he obtained 1366-1368, D. 1379.—Henry III., reigned 1390-1406.—Henry IV., B. 1423, succeeded his father John II. 1454, D., and was succeeded by his sister, Isabella of Castile, 1474.

ENGLAND.

ENGLAND.

Hemry I., surnamed, on account of his superior education, Braucler, was the youngest son of William the Conqueror, and was B. at Selby in Yorkshire, in 1068. Jealousies and dissensions early broke out between him and his elder brothers, Robert and William (the Red), and on the sudden, mysterious death of William II. in the New Forest, in 1100, Henry, who was hunting with him immediately seized the crown and the public treasures, his brother Robert being not yet returned from the crusades. To strengthen his hold on the affections of his subjects, he granted a charter re-establishing the laws of the Confessor, abolished the curfew, professed areform in his own character and manners, and married the Princess Maud, daughter of Malcolm, king of Scotland, and niece of Edgar Atheling; thus uniting the Norman and Saxon races. When Robert invaded England, in 1101, war was prevented by negotiations and the grant to Robert and annersh, archibishop of Canterbury, respecting investitures. H., ambitious of the crown of Normandy, invaded that country in 1105, and took Caen, Bayeux, and several other places. He completed the conquest in the following year by the defeat and capture of Robert, at the battle of Trencherial. In 1109 the Princess Matilda (Maud) was betrothed to the Emperor Henry V., but, in consequence of her youth. the marriage was deferred for tollowing year by the deleat and capture of nobert, at the battle of Trenchebrai. In 1109 the Princess Matilda (Maud) was betrothed to the Emperor Henry V., but, in consequence of her youth, the marriage was deferred for several years. Troubles in Normandy and in Wales, and war with the king of France, occupied Henry in the next few years. In 1118 he lost his queen, Maud, and two years later his only legitimate son, the Prince William, who, with his retinue, perished by shipwreck, on the passage from Normandy to England. It is said that the king was never seen to smile again. In 1121 he married Adelais, or Alice, daughter of Geoffrey, duke of Louvain, and on the failure of his hope of offspring, he had his daughter, the Empress Maud, then a widow. acknowledged heiross to the throne. Henry died at Rouen, from the effects of gluttony, December 1, 1135. Isnst II., first of the Plantagenet line, was the eldest son of Geoffrey, earl of Anjou, and his wife, the ex-Empress Maud, daughter of Henry I., B. at Maus, 1133. On the death of his father, 1151, he succeeded to the earldoms of Anjou, Touraine, and Maine, and in the following year,

Anjou, Touraine, and Maine, and in the following year, by his marriage with Eleanor of Aquitaine, the divorced wife of Louis VI. of France, he became possessor of the by his marriage with Lienary of aquitains, in divotes, wife of Louis VI. of France, he became possessor of the duchy of Aquitaine or Guienne. The same year he inraded England, but a treaty was concluded in 1163, by which it was agreed that he should succeed to the throne of England on the death of Stephen. This event took place in October, 1164, and H. was crowned without opposition at Westminster, in December. His first measures were directed to the redress of the disorders and anarchy which had provailed in the reign of Stephen. He seized and destroyed most of the baronial castles; dismissed the foreign troops; renewed the charter granted by Henry I.; and resumed most of the lands which had been alienated from the crown by Stephen. On the death of his brother Geoffrey, he claimed and got possession of Nantes, and was thus master of the whole western coast of France. His attempt on Toulouse, in 1159, involved him in a war with the king of France, which was only terminated two years later. In 1162, Thomas à Becket was elected archibishop of Canterbury, and the great struggle between the civil and ecclesian-Thomas à Becket was elected archbishop of Canterbury, and the great struggle between the civil and ecclesiastical powers began, which resulted in the Constitution of Clarendon, the exile and murder of Becket, war with France, the king's penance at Becket's tomb, and the repeal of the constitution. In 1171, H. invaded Ireland, and, under the authority of a bull of Pope Adrian IV., which had been published in 1156, effected the conquest of that island. The remaining years of his reign were embittered by the numerous revolts of his sons, instituted by their mother. Elegancy whose dealoust being were embittered by the numerous revolts of his sons, instigated by their mother. Eleanor, whose jealousy being excited by the king's affection for Fair Rosamond, attempted to follow her sons to the court of France, but was seized and imprisoned during Henry's life. The king of Scotland, who supported the rebellion of the young princes, was taken prisoner at Alnwick, in 1174, but was released after a few months, on doing homage to H. A formal reconciliation with the princes took place, but was followed by a fresh revolt and civil war. Prince Henry, who as heir-apparent had been crowned in 1170, died in France, 1183. Geoffrey was killed at a tournament, two years later: and John Joined his brother Richard in a new rebellion against their father, in which they were aided by Philip Augustus. The old king was prostrated by sickness, and the revolt of his youngest son John was the last and fatal blow from which he could not recover. D. at Chinon, 1189, and was buried at Fontevrault. Notwithstanding the conflicting estimates of the character and measures of Henflicting estimates of the character and measures of Hen-ry II., viewed as the champion of state supremacy, it is evident that he was a man of powerful intellect, superior education, great energy, activity, and decisiveness,

and also of impetuous passions. Ruling almost despotically, he greatly diminished the power of the nobles, and thus relieved the people of their intolerable tyranny. Good order and just administration of the laws were established, and the practice of holding the "assizes" was introduced. was introduced

sizes" was introduced.

HENRY III., eldest son of King John and Isabella of Angouleme, was B. at Winchester in 1207. He succeeded his father in 1216. The regency was intrusted to William Marshal, earl of Pembroke, who, in 1217, defeated the French army at Lincoln, and compelled the dauphin Louis to retire to France. On Pembroke's death, in May, 1219, Hubert de Burgh and Peter des Roches, bishop of Winchester, became regents; but mutual jealousies and dissensions disturbed their administration and weakened their nower. H. was crowned a second ousies and dissensions disturbed their administration and weakened their power. H. was crowned a second time, in 1220, and two years later was declared of age, but his feebleness of character unfitted him to rule, and the real power remained with his ministers. His fondness for foreign counsellors, his unsuccessful wars with France, and his attempts to govern without parliaments, excited much ill-humor in the nation. This was increased by the heavy impositions on his subjects, made necessary by his acceptance of the crown of Sicily for his son Edmund. At length, in 1258 he was virtually deposed by the "Mad Parliament," which assembled at Oxford, and a council of state was formed under the deposed by the "Mad Parinament, which assembles as Oxford, and a council of state was formed under the presidency of Simon de Montfort. The popular leaders quarrelled among themselves, while the king was a prisoner in their hands. But in 1282 civil war began, prisoner in their hands. But in 1222 civil war began, the king being compelled to employ foreign mercenaries. In 1264 the battle of Lewes was fought, at which the king, Prince Edward, Earl Richard, king of the Romans, and his son Henry, were made prisoners by the barons. Soon after, De Montfort, now virtually soverbarons. Soon after, De Montfort, now virtually sovereign, summoned a parliament, which met in January, 1265, and was the first to which knights of the shires and representatives of cities and boroughs were called; thus constituting the first House of Commons. In August of that year, De Montfort was defeated and killed by Prince Edward, at the battle of Evesham, and the king regained his liberty. But the war lasted two years longer. In 1270 Prince Edward set out on the crusade, and before his return H. died at Westminster, Nov. 16, 1272.

HEREN IV. (called BOLINGEREN), Duke of Hereford, and eldest son of John of Gaunt, Duke of Lancaster, born at Bolingbroke, in Lincolnshire, 1366. Having impeached Thomas Mowbray, Duke of Norfolk, of treason, a day was set aside for the two rivals to decide their feud by single combat. Richard, however, dreading the consequences that might arise from the resort to arms of such

single combat. Richard, however, dreading the consequences that might arise from the resort to arms of such powerful barons, on the day of trial forbade the battle, and banished both nobles from the realm; Norfolk for life, and Bolingbroke, as Hereford, his cousin. was called, for ten years. The death of his father, and the discontent of the people at the bad government of Richard, gave Hereford an exuse to return to England long before the expiration of his term, on the double plee of obtaining the dukedom of Lanzaster, and to assist Richard to rule with greater discretion. The people, weary obtaining the dukedom of Lancaster, and to assist Richard to rule with greater discretion. The people, weary of the arrogance of the court favorites, who monopolized all the authority of the state, hailed the return of Boling-broke with every demonstration of delight, and flocked round him in thousands; so that, by judiciously taking advantage of the tide of public opinion, Bolingbroke was carried by universal acclaim to the crown for which his ambition so eagerly panted; and, after having deposed his cousin, Richard 11, in 1399 ascended the throne as Henry IV. This usurpation gave rise to the civil war between the house of York and Lancaster, which broke ambition so esgerly panied; and, alter having depotes his cousin, Richard 11., in 1399 ascended the throne as Henry IV. This usurpation gave rise to the civil war between the houses of York and Lancaster, which broke out under the sway of Henry VI. His reign was disturbed by a rebellion headed by the Duke of Northumberland and his son Percy, surnamed "Hotspur." After subduing all opposition, H died overwhelmed with remorse for many of his unscrupulous deeds, 1418.

IENRY V., (surnamed Monmouth.) was one of the most illustrious of the line of English sovereigns, and whose early life of riot and dissipation gave but little promise of his after virtues, s. 13-8, ascended the throne on the death of his father, Henry IV. In obedience to the dying advice of his parent, to give the public mind employment, he declared war against France, laying claim to that throne in right of his ancestors, and at once

claim to that throne in right of his ancestors, and at once led a powerful army to the invasion of that kingdom; and after taking Harfeur and devastating the northern provinces, fought and won the glorious battle of Agincourt. To check Henry's further progress and avert the total ruin of his country, the French monarch concluded a truce with II., who, to ratify the arrangement, esponsed Charles's daughter, the Princess Catherine. No king ever sat on the English throne who was more beloved and honored than the English throne who was more beloved and honored than the gallant Harry "Monmouth," whose reign was prematurely cut short at Vincennes in 1422, after a career of foreign triumph and domestic peace unprecedented in the history of the country.

HENRY VI., the only son of the above, born 1421, was but ten months old at the death of his father, and was pro-



elaimed king on the day after that event. His grand-father, Charles VI., king of France, died soon after, and the Duke of Orleans assumed the title of king by the name of Charles VII. This renewed the war between Eugland and France, and the English, for a while, were England and France, and the Englan, for a white, weite successful. Henry was crowned at Paris, and the great duke of Bedford, his guardian, obtained several important victories. But the raising of the slege of Orleans by Joan of Arc gave a new turn to affairs, and the English power declined, and was, in the end, quite subverted. The death of the duke of Bedford was a fatal blow to the The death of five duke of Bedford was a fatal blow to the cause of H.; and, to add to his misfortunes, the York party in England grew strong, and involved the country in a civil war. They adopted the white rose as their badge of distinction, and the Lancastrians the red. Hence the title given to the struggle—the War of the Roses. After various contests, the king was defeated and taken prisoner. However, his wife, Margaret of Anjou, carried on the war with spirit, and for some time with considerable success. Bichard, Duke of York, was slain at Wakefield, and H. recovered his liberty; but Edward, and routed the queen's forces at Ludlow, but was himself afterwards defeated at St. Alban's. At length the York party prevailed, and Horny was sent to the Tower,

and routed the queen's forces at Ludlow, but was himself afterwards defeated at St. Alban's. At length the York party prevailed, and Henry was sent to the Tower, where, it is believed, he was slain by Richard, Duke of Gloucester. Found dead in the Tower, 1471. HENRY VIL, (TUDOs), son of Edmund, earl of Richmond, and of Margaret, of the house of Lancaster, B. 1456. By the assistance of the duke of Brittany, he landed in Wales with some troops, and laid claim to the crown in 1485. The people, disgusted at the cruelties of Richard III., joined him in such numbers that he was enabled to give the usurper battle at Bosworth Field, where Richard was slain, and H. crowned on the spot. He united the houses of York and Lancaster by marrying Elizabeth, daughter of Edward IV. His reign met with little disturbance, except from two impostors, set up by Lady Margaret, sister to Edward IV. One was a joiner's son, called Lambert Simnel, who personated Richard, duke of York, who had been murdered by the duke of Gloucester in the Tower. On being taken prisoner, H. made him a scullion in his kitchen. The other was Perkin Warbeck, who said he was the duke of York; but he was soon taken, and hanged at Tyburn. H. reigned 24 years, and greatly increased trade and commerce; but his avarice was excessive. D. 1509.

HENRY VIII., B. 1491, succeeded his father, Henry VII., at the age of 19. The first years of his reign were very popular, owing to his great generosity; but at length his conduct grew capricious and arbitrary. The am

the age of 19. The first years of his reign were very popular, owing to his great generosity; but at length his conduct grew capricious and arbitrary his conduct grew capricious and arbitrary. The em-peror Maximilian and Pope Julius II., having leagued against France, persuaded H. to join them, and he, in



Fig. 1272. - HENRY VIII., (after Holbein.)

Fig. 1272. — HENRY VIII., (after Holbein.)
consequence, invaded that kingdom, where he made some conquests. About the same time, James IV., king of Scotland, invaded England, but was defeated and slain at Flodden Field. Cardinal Wolsey succeeded in bringing Henry over from the imperial interests to those of the French king. When Luther commenced his reformation in Germany, H. wrote a book against him, for which he was complimented by the Pope with the title of "Defender of the Faith." But this attachment to the Roman see did not last long; for, having conceived an affection for Anne Boleyn, he determined to divorce his wife, Catharine of Aragon, to whom he had been married eighteen years. His ples for the divorce was, that Catharine was his brother Arthur's widow. The divorce being refused by the Pope, Henry assumed the title of Supreme Head of the English Church, put down the monasteries, and alienated their possessions to secular purposes. His marriage with Anne Boleyn followed; but he afterwards sent her to the scaffold, and married Lady Jane Seymour, who died in childbed. He next married Anne of Cleves; but she not proving agreeable to his expectations, he put her away, and caused Cromwell, earl of Essex, the projector of the match, to be beheaded. His next wife was Catharine Howard, who was beheaded for adultery; after which he espoused Catharine Howard, who was beheaded for adultery; after which he espoused Catharine Howard, who was beheaded for adultery; after which he espoused Catharine Howard, who was

arine Parr, who survived him.. He was a man of strong passions and considerable learning; but it is truly said of him, "that he never spared man in his anger nor woman in his lust." D. 1547.

FRANCE.

Henry I., B. 1004, succeeded his father, Robert I., in

HERRY I., B. 1004, succeeded his father, Robert I., in 1031, and died 1060, after a reign of 23 years, frequently disturbed by civil and foreign wars.

ILINAN II., son of Francis I. and his queen, Claude, born 1518. His marriage with Catharine de Medicis was celebrated at Marseilles, in 1533, by her uncle, Pope Clement VII. Henry succeeded his father in 1547, and at once made a complete change in the court and minstry. The most influential persons in his reign were the cardinal of Lorraine and his brother Francis, duke of Guise, the constable de Montmorenci, the marsinal de St. André, and Diana of Poitiers, the king's favorite mistress, whom he made duchess of Valentinois. He carried on war with England, and recovered Boulogue for France; war with the Pope and with Spain; fighting for the Protestants in Germany, while he persecuted them in France; acquired by conquest Metz, Toul, and Verdun, and retained them under the treuty of Chatesu-Caulbresis, which closed the war in 1559. By the same treaty Calais was confirmed to France. The siege of Metz by Charles V., and its defence by the Duke of Guise; the battle and siege of Renti; the great victory of the Spaniards at St. Quentin; and the battle of Gravelines, are the chief military events of this reign. Mary, the young queen of Scots, was brought to France about 1549, and betrothed to the dauphin François. H. D. in July, 1550, from the effects of a wound accidentally inflicted by the count of Montgomery at a splendid tournament a few days before. He left four sons and thre flicted by the count of Montgomery at a splendid tour-nament a few days before. He left four sons and three daughters, three of the former reigning after him in

nament a few days before. He left four sons and three daughters, three of the former reigning after him in succession.

Heway III.. third son of Henry II. and Catharine de Medicis, was B. in 1551. He was first known as duke of Anjou, and distinguished himself as a soldier at the battles of Jarnac and Moncontour. He was elected king of Poland in 1573, but being proclaimed king of France on the death of Charles IX., in 154, he escaped, not without risk, from Poland, and returned to France. The country was distracted with conflicting factions, and wasted with civil war; and the king, feeble in character, and self-indulgent, was governed by ignoble favorites. The famous Catholic League was formed, with the duke of Guise at its head; Henry of Navarre put himself at the head of the Huguenota, and won the battle of Courtars; Paris fell into the power of the League in 1588, and the king field to Chartres and Rouen; later in the same year he convoked the states-general at Blois, and there had the two Guises assassinated, a crime which excited the revolt of Paris and the principal cities of the kingdom. The duke of Mayenne was named by the League lieutenant-general of the royal estate and crown of France, and Henry, roused at last to action, joined his rival, lienry of Navarre, and advanced to besiege Paris. At St. Cloud, which he made his headquarters, he was stabbed by a fanatic, Jacques Clement, and D. the day after, Aug. 1, 1589. Henry III. left no children, and was the last sovereign of the Valois line.

Henry IV., (Quarra,) called The Grara, king of France and Navarre, was B. in 1553 at Pau, in Béarn. His father, Anthony of Bourbon, was descended from a son of Louis IX.; his mother was Jeanne d'Albret, daughter of Henry, king of Navarre. He was brought up in the simple and hardy manner of the peasantry of Béarn, and thus laid the foundation of a vigorous constitution and temperate habits. He was placed under the tuition of

of Louis IX.; his mother was Jeanne d'Albret, daughter of Henry, king of Navarre. He was brought up in the simple and hardy manner of the peasantry of Béarn, and thus laid the foundation of a vigorous constitution and temperate habits. He was placed under the tuition of Florent Chrétien, a learned man and zealous Protestant. In 1569 he accompanied his mother to Rochelle, and learned the art of war under Admiral Coligni. When the perfidious design of destroying the Huguenot chiefs by a massacre was formed by Charles IX. and his mother, Catherine, one of their means to lull suspicion was, to propose to Queen Jeanne a marriage between Henry and Margaret of Valois, the king's youngest sister. While preparations were making for the marriage festival, Henry's mother died at Paris, not without strong suspicions of poison. Having assumed the title of King of Navarre, his marriage took place, Aug. 18th, 1672. Then followed the horrible scenes of 8t. Bartholomew, Aug. 24th. H. was obliged to make a profession of the Catholic faith to save his life; but Catherine of Medicandeavored to dissolve the marriage just celebrated. As she was unsuccessful in this, she adopted the plan of corrupting the noble youth by the pleasures of a licentious court; and he did not escape the snare. In 1576, however, he took advantage of a hunting excursion to quit the court, and professed himself again of the Protestant Church. Catherine, who after the decease of Charles IX. administered the government in the name of his successor Henry III., now thought it advisable to conclude a treaty of peace with the Huguenots (1576), securing to them religious freedom. Exasperated by this event, the Catholics formed the celebrated League, which Henry III. H. was obliged to confirm; and the religious war was recommenced. In 1887 H. obtained a victory over the Catholic attours, in Guienne. In 1899, on the assassination of Henry III., H. of Navarre succeeded to the throne; but he had to secure his claim by hard fighting and by the profession of the Catholic

faith, July 25th, 1593, in the church of 8t. Denis. He happly escaped an attempt to assassinate him; was solemnly anointed king at Chartres in 1594; and entered the capital amid the acclamations of the people. Peace was not fully reëstablished till 1598, when the treaty of Vervins was signed. H. made use of the tranquillity which followed to restore the internal prosperity of his higher and the same of the tranquillity which followed to restore the internal prosperity of his indexes in the same of the tranquillity which followed to restore the internal prosperity of his indexes in the same of the sa faith, July 25th, 1593, in the church of St. Denis. He

GEMMAN.

Henry I., surnamed the Flucter, emperor of Germany, a. 876, was the son of Otho, duke of Saxony, and elected to the imperial dignity in the year 918. He remited the German princes, and subdued the Hungarians, formed good laws, and built several cities. He vanquished the Bohemians, the Sclavonians, and the Danes, and conquered the kingdom of Lorraine. D. 936.

quered the kingdom of Lorraine. D. 936.

HENRY II., great-grandson of the preceding, B. 972. He succeeded his father as duke of Bavaria, and in 1002 was elected king of Germany, and crowned at Mentz and st Aix-la-Chapelle. Two years later he was crowned king of Lombardy at Pavia, his rival, Hardouin, avoiding a combat with him. He was engaged in frequent wars. in Italy, in Bohomia, Bavaria, &c. In 1014 he received the imperial crown at Rome, his wife Cunegunde being crowned with him. They were both distinguished for their piety and devotion to the Church, and were canonized. D. 1024. He was the last emperor of the house of Saxony. of Saxony.

their piety and devotion to the Church, and were canosized. D. 1024. He was the last emperor of the house of Saxony.

Henry III., son of the Emperor Conrad II., a. 1017, succeeded his father in the imperial dignity, 1039. Natura had given him the talents, and education the character, suitable for an able ruler. In everything he undertook he displayed a steady and persevering spirit; the clergy were compelled to acknowledge their dependence on him, and the temporal lords he held in actual subjection. He deposed three popes, and raised Clement II. to the vacant chair; and he was as successful in his wars as in his administration. D. 1056.

Henry IV., son of the preceding, was born in 1060, and at the death of his father was only five years old. His mother, Agnes, was made regent, and on her death the chief power was seized by his uncles, the dukes of Saxony and Bavaria. Henry made war on them, and threw off their yoke. He, however, offended his subjects, by the licentiousness of his manners, and quarrelled with the pope, Gregory VII., about investitures. The latter being appealed to in a subsequent dispute between Henry and the duke of Saxony, cited Henry to his tribunal, who then deposed the pope, to be in turn excommunicated by him. The emperor was compelled to submit, went to Canossa, where the pope then was, and after being kept three days in the court-yard, received absolution. The quarrel was soon renewed, deposition, excommunication, and election of new popes and emperors followed. Henry's eldest son, Conrad, rebelled against him, but was overcome, and died at Florence in 1101. He then caused his second son, Henry, to be elected his successor, and crowned; but the latter also rebelled, and making himself master of his father's person, in 1106, by stratagem. compelled him to abdicate the throne. Henry IV. ended his life and sorrows in neglect, at Lifege, in 1106; and, as he died under sevence of excommunication, was not buried till five remains were interred at Spires.

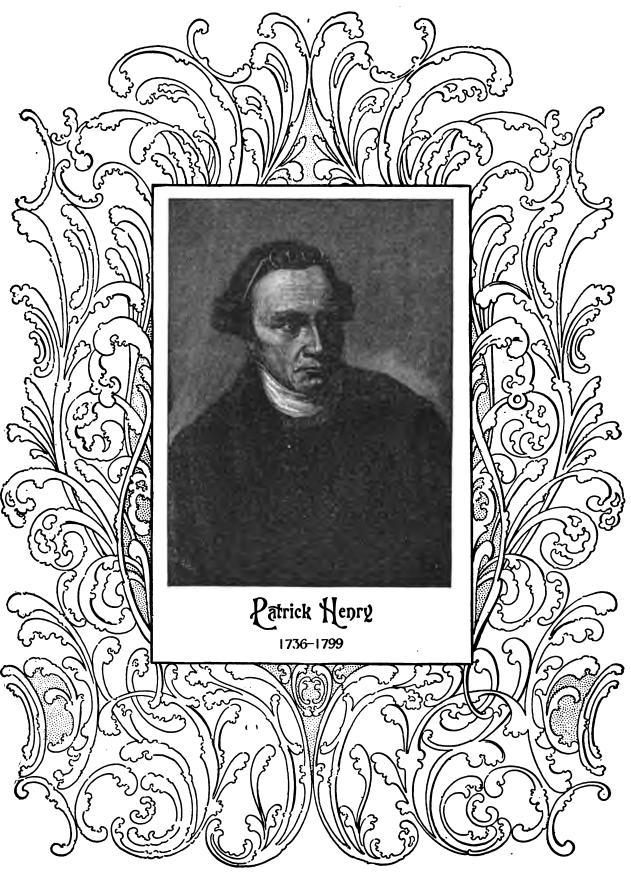
remains were interred at Spires.

LENBY V., the son and successor of the preceding, a. 1081.

In 1106 he rebelled against his father, and dethroned him, assuming the imperial crown in his stead. In 1111 he married Matilda, the daughter of Henry I., king of England; and the rich dowry he received with his princess gave him the means of undertaking an expedition demand the imperial crown from the pope. Findam cess gave him the means of undertaking an expedition to demand the imperial crown from the pope. Finding that Pascal refused to crown him, Henry caused the pope to be conveyed away from the altar while at mas; and cut down, in the streets of Rome, all who opposed him. At length the pope yielded, and Henry was crowned in 1112, without making any new concessions. Soon after his return to Germany, the pope excommusicated him; which led to a new war, the invasion of Italy, and the election of a rival pope. Peace was not made till 1122, when the emperor renounced his claims. Dief 1125.

1125. Henry VI., son of Frederick Barbarossa, R. 1165. Hews elected king of the Romans when four years of age, and succeeded his father on the imperial throne in 1190. The same year, on the death of William II., lying of





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Sicily, he claimed that crown in right of Constance his wife, daughter of King Roger. After being crowned at Bome with his wife in 1191, he made an unsuccessful attempt to conquer Naples. In 1193 he gave Leopold, duke of Austria, a small price to hand over to his keeping his royal prisoner, Richard I. of England, whom he detained nearly a year, and released for a beavy ransom. With this money he undertook another expedition against Sicily, and succeeded. He was crowned at Palermo in 1194. A revolt broke out in consequence of his tyranny, and he returned to suppress it. D. at Messina, 1197.

Haw'ar VII, succeeded Albert I. in 1308. He undertook an expedition to Italy, and compelled the Milanese to crown him king of Lombardy. He then suppressed a revolt which had broken out in Upper Italy; took several cities by storm; and, having captured Rome, he was crowned Roman emperor by the cardinals sent from Avignon, while in the streets the work of murder and pillage was still going on. D. 1313.

Hener, (Rapson,) Landerave of Thuringia, was elected emperor by the ecclesiastical princes in 1246, when Pope Inuccent IV. uppend Frederick II: p. 1247 of a wound received fighting his rival.— Hener the Lion and

ceived fighting his rival. HENRY THE LION AND

H. THE PROUD.

received Ighting his rival.— Henry the Lion and H. The Proud.

H. The Protestant Episcopial Church, and was ordained priest in 1836. From 1839 to 1852 he held the chair of Philosophy and History in the New York University, acting as Chancellor during part of that period; was also rector of St. Clement's church, New York (1847-1850), editor of The Churchman, and for one year political editor of the New York Times. Prior to this period he had founded a publication called the American Advocate of Peace, which became the organ of the American Peace Society, and the Review, which he conducted until 1840. Among his published works were an annotated edition of Guisot's History of Civilisation; a translation of Cousin's Psychology; Social Welfare and Human Progress; and Salan as a Moral Philosopher. Died in 1884.

H. Em Typ. Joseph. a celebrated physicist, was born in

Hem'ry, Joseph, a celebrated physicist, was born in Albany, N. Y., 1797, received a common education and commenced life as a watchmaker in his native city. In 1828 he was professor of mathematics in the Albany Academy, and in 1827 began making experiments in electricity. He invented the first machine moved by the agency of electro-magnetism, and was the first to demonstrate those principles by which intelligence is conveyed between distant points through the agency of the electric telegraph. In 1832 he was appointed professor of Natural Philosophy in the College of New Jersey, at Princeton, and in 1837 visited England, where he imparted his knowledge to Professor Wheatstone. In 1846 he was elected first secretary of the Smithsonian Institution at Washington, a post he held until his death, May 13, 1878. H. published, in 1839, Contributions to Electricity and Magnetism, and also contributed several scientific papers to The American Philosophical Society, to Sillman's Journal, and to the Journal of the Frunkis Institute.

scientific papers to The American Philosophical Society, to Sillment's Journal, and to the Journal of the Frankin Institute.

Hempy, Matthew, a celebrated non-conformist divine, was born in Flintshire, Wales, in 1662; he was one of the two thou-and ministers who secoded from the Church of England upon the passage of the Act of Uniformity. He began preaching in 1686, and the following year established himself at Chester, Eng., as pastor of a congregation of Dissenters, continuing this connection for a quarter of a century. He removed to Hackney, near London, in 1712, and died two years later while on a visit to his old friends in Chester. In 1704 he began the preparation of an ambitious work, entitled An Exposition of the Old and New Testaments, but only lived to complete the Acts of the Apostles. This work has been frequently reprinted.

Hempy, Parrick, an American statesman and orator, was born in Virginia, in 1736. He was one of a large family, grew up uneducated, made several unsuccessful ventures in trade, and at last turned advocate. Heremained without distinction and without briefs for several years, but at last brought himself into notice and practice, in 1763, by his clever and successful pleading in a case respecting the legal income of the clergy He opposed the clerical claim, and by the view he presented of the matter made it a great question of colonial independence. He removed to Louisa, and in 1765 was chosen a member of the Virginia legislature, and there made a very exciting speech against the famous "Stampach." He was one of the members of the first Congress, which met at Philadelphia in September, 1774, and was the first to call his countrymen to arms for attainment of their independence. His eloquence on the occasion is said to have astonished all his hearers. He was eaceted for several years governor of Virginia. Embarrassed with debts, he preferred then to retire from public office, and devote himself to his profession. He opposed the Federal constitution as not democratic enough and interf

Ington, but he did not accept it. Died in 1792.

Henry, in Alabama, an extreme S.E. co., adjoining Florida and Georgia; area, 484 sq. m. Rivers. Chattahochee, and numerous smaller streams. Surface, broken; soil, not fertile. Cap. Abbeville. Pop. (1890) 24,847.

Henry, in Georgia, a N.W. central co.; area, about 322 sq. m. Rivers. Cotton and South rivers, and Indian,

Sandy, Towaliga, and Tassahaw creeks. Surface, generally level; soil, fertile. Mis. Gold, iron, granite, and quarts. Cap. McDonough. Pop. (1890) 18,220.

Henry, in Illisois, a N.W. co.; area, about 830 sq. m. Ricers. Green and Rock rivers, and Edwards creek. Surface, diversified; soil, fertile. Mis. Coal in abundance. Cap. Cambridge. Pop. (1890) 33,338.

—A city and township of Marshall co., on the Illinois river and C., R. L. & P. R. R., 33 m. N.N.E. of Peoris. Has a fine trade in farm products. Pop. (1897) about 1,850.

Has a fine trade in farm products. Pop. (1897) about 1,850.

Hemfy, in Indiana, an E. central co.; area, about 400 sq. m. Rivers. Blue river and Fall creek. Surface, undulating; soil, fertile. Prod. Wheat, corn, hay, cata, and swine. Cap. Newcastle. Pop. (1890) 23,879.

—A township of Falton co.

—A township of Henry co.

Hemfy, in Iora, a S.E. co.; area, about 432 sq. m. Rivers. Skunk river and Cedar creek. Surface, level; soil, fertile. Mis. Coal and limestone. County-seal, Mt. Pleasant. Pop. (1895) 18,278.

Henry, in Kentucky, a N. co.; area, about 272 sq. m. Rivers. Kentucky river and many of its tributaries. Surface, undulating; soil, very fortile. Cap. New Castle. Pop. (1890) 14,164.

Henry, or Hem'rytown, in Minnesola, a post-village of Fillinore co., about 9 miles S.E. of Preston. Henry, in Missori, a W. co.; area, about 740 sq. m. Rivers. Grand river, and Big, Deepwater, and Tebo or Thibaut creeks. Surface, diversified; soil, fertile. Cap. Clinton. Pop. (1890) 28,235.

Hemfy, in Ohio, a N.W. co.; area, about 420 sq. m. Rivers. Maumee river, Beaver and Turkey creeks. Surface, level; soil, fertile. Cap. Napoleon. Pop. (1890) 25,080.

Henry, in Tensessee, a N.W. co., adjoining Kentucky; creeks about 560 son. Rivers. Tannessee and Rive Sandy. Grand and Rivers. Randers and Rive Sandy.

Henry, in Tennessee, a N.W. oo, adjoining Kentucky; area, about 580 sq. m. Rivers. Tennessee and Big Sandy rivers. Surface, diversified. Cap. Paris. Pop. (1890) 21.070.

ZI,070.
 Hem'ry, in Virginia, a S. co., adjoining North Carolina, area, about 410 sq. m. Ricers. Smith river and some smaller streams. Surface, hilly; soil, fertile. Cap. Martinaburg. Pop. (1890) 18,208.
 A post-office of Sussex co.

Henry Clay, in Pennsylvania, a township of Fayette

CO.

Henry Clay Fac'tory, in Delaware, a post-town of New Castle co. Pop. 329.

Henry el'Iem, in Alabana, a post-town of Jefferson co. Pop. (1897) about 500.

Henry sburg, a village of Quebec, about 32 m. S.E. of Montreal.

Henry's Cross Roads, in Tennessee, a post-office of

sevier co.

Hem'ry wille, in Pennsylvania, a village of Monroe co., about 8 miles N. of Stroudsburg.

Hemry wille, a village of Quebec, about 37 m. 8.E. of Monroel.

Montreal.

Henryville, in Indiana, a post-village of Clarke co.

Henryville, in Louisiana, a post-office of Natchitoches county.

Henryville, in Mississippi, a post-village of Clay co.

Henryville, in Tennessee, a post-village of Lawrence co, about 70 miles S.S.W. of Nashville.

Hen's'-feet, m. The hedge-fumitory, genus Fumaria.

Hen's'ingersville, in Pennsylvania, a village of Lehigh co.

Hens'ley, in Indiana, a township of Johnson coun

Hensievia'cese, n. pl. (Bot.) An order of plants, alliance Saxifragales. It contains but one genus, consisting of three or four species, which resemble in most respects the hydrangeas, the chief differences being in their tree-like habit, in the union of their styles into a cylinder, and in the total absence of albumen. Their roperties and uses are unknown.

properties and uses are unknown.

Hep, n. (Bot.) See Hir.

He'pate, n. [Gr. hepar, liver.] A name given to some varieties of sulphate of baryta or heavy spar (q. v.) from their having a liver color.

Hepat'ic, Hepat'ical, a. [Lat. hepaticus; Gr. hêpaticus, from hepar, the liver.] Pertaining to the liver; as, the hepatic gall.—Resembling the liver in color; as, hepatic sinushar. ztic cinnabar.

as, the hepatic gall.—Resembling the liver in color; as, hepatic cinnabar.

(Anal.) Hepatic artery, is that which nourishes the substance of the liver. It arises from the collac, where it almost touches the point of the lobulus Spipelit. Its root is covered by the pancreas; it then turns a little forwards, and passes under the pylorus to the porta of the liver, and runs betwixt the biliary ducts and the vens portse, where it divides into two large branches, one of which enters the right, and the other the left close of the liver. In this place it is inclosed along with all the other vessels in the capsule of Glisson.—Hepatic duct, is about three fingers' breadth in length, and of the size of a quill. It is formed by the union of the biliary ducts, and joins the cystic duct at a very acute angle, to form the ductus choelochus. Its function is to convey the bile from the liver towards the duodenum. Hepaticas, n. [From Gr. hēpar, liver.] (Bot.) A genus of plants, order Ransanculaces. The Liverwort, H. triloba, is found in woods from Canada to California. This little plant is one of the earliest harbingers of spring, often

has seed a quili. It formed by the dimb of the angle, to form the ductus choledochus. Its function is to convey the bile from the liver towards the duodenum to convey the bile from the liver towards the duodenum. Heptan'drous, a. [Fr. heptand'drium, Heptan'drium, and Eng. angular, q. v.] plants, order Ransneulacez. The Liverwort, H. triloba, list found in woods from Canada to Californis. This little plant is one of the earliest harbingers of spring, often putting forth its neat and elegant flowers in the neighborhood of some lingering snow-bank. The root consists of numerous and strong fibres. Leaves all radical, on long, hairy petioles, smooth, evergreen, coriaceous, divided into 3 lobes. Flowers on scapes 3-4' long, solitary, numerous, generally blue, but frequently in varieties of white and flesh-color. In cultivation they become double.

(Med.) A name given to medicines believed to be capable of affecting the liver.

Hep'atite, n. (Min.) A brown, fetid sulphate of baryta.

Hepatitis, s. [Gr. Acpatitis, belonging to the liver, from Acpar, the liver.] (Med.) Inflammation of the liver. The history and symptoms of this disease have been particularly dwelt upon in all medical works from the earliest periods. Until very recent times, when the attention of physicians was more especially called to diseases of the gastro-intestinal nucous membrane,—heretofore a field comparatively unexplored,—this affection, and its subsidiary diseases, were more studied than any other lesion of the digestive apparatus. In temperate latitudes H. is a rare disease; but in tropical climates it is often so acute, sudden, and fatal, as to defy temperate iatitudes H is a rare disease; but in tropical climates it is often so acute, sudden, and fatal, as to defy medical treatment. The principal indications of the disease are, pain in the right side and shoulder, tenderness in the right hypochondrium when pressed, together with enlargement of the liver, often vomiting, always fever, with loss of appetite, and a foul tongue. It is frequently accompanied by jaundice. H. sometimes terminates in abscesses, which, on some occasions, require to be opened externally. Professional assistance is necessary with regard to them, as the treatment is complicated. After the disease has been subdued, vegetable of the control of the cont

complicated. After the disease has seen succeed, vegetable tonics are useful in restoring the digestive powers. When the disease has supervened in a warm climate, a removal to a more temperate region is always advisable. Hepatisa'tien, n. (Med.) Conversion into a liverlike substance;—applied to the lungs when gorged with effused matter, so that they are no longer pervious to these. to the air.

to the air.

Hep'atize, v. a. [Gr. kēpatizein.] To impregnate
with aulphuretted hydrogen gas. — To gorge with effused matter, as the lungs.

Hepsat'occie, n. [Gr. kēpatos, and kēle, a tumor.]
(Med.) A hernia, in which a portion of the liver protrudes through the abdominal parietes.

Hepsatocyw'tie, a. [Gr. kēpatos, and kustis, a bladder.]
(Med.) Pertaining alike to the liver and the gall-bladder.

der.

Hepatogras'tie, a. [Gr. hépatos, and gaster, the belly.]

(Med.) Relating to the stomach and liver.

Hepatography, n. [Gr. hépatos, the liver, and graphein, to describe.] (Med.) A treatise on, or description of the liver.

Hepatolithi'asis, n. [Gr. hēpatos, and lithiasis, the disease of the stone.] (Med.) The formation of concretions in the liver.

Hepatol'ogy, s. [Gr. hēpatos, and logos, discourse.] (Med.) Substantially identical with Heratography, q.v. Hep'burn, in Pennsylvania, a village and township of Lycoming co.

Hephase'tion, the favorite of Alexander the Great, and the companion of his campaigns and festivities, married one of the daughters of Darius. D. at Echandrical Control of the Control of Control of

married one of the daughters of Darius. D. at Echetana, 324 s. c.

Hep'ler, in Pennsylvania, a post-office of Schuylkill co.

Hep'pen, a. [A.S. häp, fit.] Fit; appropriate; becoming. (a.)

Hep'tacherd, (-kôrd,) s. [Gr. heptachordes.] (Asc. Mus.) A lyre having seven chords.—The interval of a seventh.—A poetical composition played or sung in seven different notes or tones.

Hep'tade, n. [Gr. heptados.] The number or sum of

Hep'taglet, n. [Gr. heptaglöttes.] A book written in

Hep'taglet, n. [Gr. heptaglöttos.] A book written in seven languages.

Hep'tagom, n. [Gr. hepta, seven, and gönia, angle.] (Geometry.) A plane figure of seven sides. The area of a regular H. is equal to the square of one of its sides multiplied into the constant number 3:6339124.

Heptagonal Numbers. (Arith.) Figurate numbers of the 2d order and 5th class; they are formed by the successive addition of the terms of the arithmetical series 1, 6, 11, 16, &c., whose common difference is 5. Thus the first four H. N. are 1. 7. 18, 34 and the nth is 2. the first four H. N. are, 1, 7, 18, 34, and the n<sup>th</sup> is  $\frac{n}{2}$ (5 n - 3).

(5 n - 3).

Heptagyn'ia, n. [Gr. hepta, seven, and gyne, woman.]

(Bot.) In the classification of Linneus, an order of plants possessing seven pistils.

Heptagyniam, Heptagynous, (heptajin'yan, heptajenus, a. [Fr. heptagynique.] (Bot.) Possessing seven pistils or styles.

Heptahe'dron, n. [Gr. hepta, and hedra, base; Fr. heptadre.] (Goom.) A solid figure having seven sides.

Heptahexahe'dral, a. [Gr. hepta, and hezahedral, q. v.] Having seven series of faces one above another, each series presenting six faces.

q.v.] Having seven series of mices one above another, each series presenting six faces.

Heptamm'erede, n. (Gr. hepta, and meridos, part.)

That which divides into seven parts.

Heptamm'ereous, a. (Gr. hepta, and meros, part.)

(Bot.) Comprising seven parts.

Heptam'dria, n. (Gr. hepta, and ondros, male.) (Bot.)

In the classification of Linnsons, a class of plants which have even stamens.

government.] A government by seven persons; also, the country so ruled. The English H. consisted of the seven Baxon states, Kent, Sussex, Wessex, Essex, North-umbria, East Anglia, and Mercia, united under the same rule, in 828, by Egbert, who assumed the title of king of

Heptateuch, (hep'tu-lūk,) n. [Gr. hepla, and teuchein, to prepare.] (Script.) The first seven books of the Old

to prepare.] (Ser Hir.) The Dog-rose, Rosa canina. Her, pron. and a. (objective case of she, pers. pron. of the 3d pers. fem.) [A. S. hez, she, hire, of, to, or for her, hi, hig, her. See SHE.] Belonging to a female, or to a noun feminine; — being the possessive case of the personal pronoun she; as, her body, her love, &c.

He'ra, Hê'rê, n. [Gr.] (Myth.) See Juno.

Herac'lea, (Anc. Gen.), the name of several Greek cities, the most important of which were: 1. A city of Magna Gracia, in Lucania, near the Tarentine Guif, (now Policoro.) It was the birthplace of Zeuxis, and near it the Romans were defeated by Pyrrhus, s. c. 230.

— 2. A city of Bithynia, surnamed Pontica (now Eregli), on the S. shore of the Euxine.

Herac'leaum, n. B.d. (Eccl. Hist.) An early sect of hereice belonging to the Gnostics; — so called from Heracleon, whose tenets they embraced.

Herac'leaum, n. (Bod.) A genus of plants, order Apiacez, distinguished by a calyx limb of 5 small, acute teeth; petals obcordate; fruit compressed, flat, with a broad, flat margin; seeds flat. They are stout herbs, with large umbels. The only noticeable species is H. sphondylium, the Cow-parsnip.

Herac'lides, n. pl. (Anc. Hist.) The descendants of Hercules, who, after his death, B. c. 1209, were expelled from the Peloponnesus, and took refuge in Attica. The return of the Heraclides, or the Dorian Migration, B. c. 1016, forus a celebrated epoch in ancient chronology, as marking the transition from the heroic or fabulous ages to the period of authentic history.

Herac'litus, a celebrated Greek philosopher of Ephesus, lived in the 69th Olympiad, about 500 B. c. The principle of his theory is the recognition of the fire of life, and the ethercal element of wisdom, as the ground of all visible existences. Only fragments of his works have been preserved, which are written in the symbolic of transerved.

of all visible existences. Only fragments of his works have been preserved, which are written in the symbolic or transcendental manner of the Pythagoreans.

Herac'lius, Emperor of the East, from 610 to 641.—
His son, Herachus Constantine, survived him only three months, being poisoned, it is said, by his mother-in-

unree montas, being poisoned, it is said, by his mother-inlaw, Martina.

Her'ald, n. [O. Fr. herald, and harauld; Fr. héraut;
Ger. herold.] Among the Greeks and Romans, heralds
were employed to carry messages to friendly and hostile
nations, to conclude treaties of peace and amity, or to
declare war. (See Fezlales.) In mediseval times, their
duties were very similar, and they had the direction and
management of tournaments and jousts, and the regulation of ceremonies of state; it also fell to their part to
make lists of the knights and soldiers who were slain inbattle. The supervision of pedigrees of descent, and
the armorial bearings of families, also came within the
especial province of the H., who, with the kings-at-arms,
held visitations in different counties at certain times for
this purpose. H. are first mentioned under this title
about the middle of the 12th century. The English H.
were formed into a body corporate by Richard III.—See
Heralds? College.

—A proclaimer; a publisher.

A proclaimer; a publisher.

"After my death I wish no other herald...but... Griffith." — Shaks.

-A precursor; a forerunner; a harbinger.

" It was the lark, the herald of the morn." a. To introduce, as by a herald; to proclaim.

We are sent from our royal master to herald thee."

Heral'dic, a. [Fr. heraldique.] Relating to blazonry; pertaining to heralds or heraldry; as, an heraldic cog-

pertaining to heraids or heraidry; as, an heraidic cog-nizance.

Heraidically, adv. In an heraidic manner.

Heraidry, n. The science which teaches how to represent in certain colors, or by figures, or to express in technical terms, whatever belongs to coat-armor, and to the manner of conducting public ceremonies, as coro-nations, &c. The origin of armorial bearings is un-doubtedly the same as that of names of families: a mode of distinguishing by sight, as the other is by sound, a noted individual in society, or a leader in the field. We read of banners and standards in the Bible, (Fig. xx. 5; noted individual in society, or a leader in the field. We read of banners and standards in the Bible, (Psa. xx. 5; Numb. ii. 3), and of seals bearing particular devices, (1 Kings xxi. 5; Rev. v. 1, 5.) The sculptures on the shields of Achilles and Hercules, in Homer and Hesiod, are rather ornamental than heraldic, but in the Streat Chieft against Thebes, of Eschylus, the cognizances of these renowned leaders are as distinctly blazoned on their shields, and in the same manner, as on those of knights in the Middle Ages. The Romans had no armorial devices for individuals, except their distinctive crowns for particular services. In the first crusade for the conquest of Palestine, a. p. 1098, the French shields were of polished metal without any ornament or sign, and in this, and the second crusade, A. p. 1142—7, no cognizances were borne, unless the white cross on a red ground which served to designate the French knights, and the red cross on a white ground worn by the English, can be considered as such. But in the third crusade, A. p. 1189, armorial devices were used, and in the 13th century they were regularly transmitted from father to son, and were embroidered on the succost, though afterwards we find them on both the jupon and tabard until the reign of Henry VIII. Wace mentions them as being in use by the Normans, and the Bayeux tapestry confirms the,

assertion. In 1216 (temp. Hen. III.) the vocabulary of H. was nearly as full and definite as at the present day, and armorial bearings were displayed on the mantle or surcoat, on pennon or banner, and on sword-hits as early as A. D. 1250. The science of H. has been found a vaias A. p. 1250. The science of H. has been found a valuable aid to historical investigations, and is entitled to respect, not merely on this account, but also for the refinement and curious variety of the learning itself. Arms are often useful in showing from what person or country their bearers originated: thus the Maxwells and Ramsays bear the eagle to show their descent from Germany; the Rutheess, the arms of Portugal, to show their descent from its royal house; the Marjoribanks (pronounced Marchanks) bear the cushion to show that they were Johnstones originally; and by the same token Wemsus and Fyle are known to be cadets of Macduff. Indeed, arms are often surer signs of consanguinity than the surmame, as the Shaws of the north of England are proved to be McIntoshee by their arms. They show the memory of many an ancient and noble and thus the memory of many an ancient and noble line is preserved, by the quartering of their arms by their descendants. They also denote the rank or condi-tion in life of the heaver. their descendants. They also denote the rank or condi-tion in life of the bearer. Appended to grants and doc-uments they inform us of the true surnames of the grantors which may bave become illegible. Thus by the seals alone it is known that certain charters were granted by the Menzies, and other notables, though their names cannot now be deciphered. They often show the right originations and writings of surnames: thus we know the name of Tarbat to be incorrect, and that it should be written Turbat, by seeing they have three turbots fretted in their arms. They have proved who were the founders of towns, castles, and churches: thus we know the name of Tarbat to be incorrect, and that it should be written Turbot, by seeing they have three turbots fretted in their arms. They have proved who were the founders of towns, castles, and churches: thus the church of Durham is known to have been built by the king of Scotland, and the town of Erfurt by the French king, because they bear their arms. By these signs even ships of enemies are known at see, captured and conflected, for what are the flags of nations but a species of heraldic arms? As a general rule, the people of our own country care little or molling for the science of H., there being as yet no acknowledged "upper class" or aristocracy. To the American the sole interest in these things consists in their historical character, or, as in the case of lodividuals, in the remembrance of an honorable ancestry. "He who does not look back upon his ancestors, will never look forward to posterity, is a true saying, and no man can afford to insult the memory of his real progenitor by a false claim to the arms of others. The feudal system, chivairy, and the crusades made necessary certain signs and figures to distinguish persons and perpetuate great actions, and the process of reducing these marks and signs to order was only a natural consequence of the first invention. Hence the necessity for Heralds, and a College of Arms. It is ridiculous, however, to suppose that there must be any analogy between heraldic signs or figures, and the actions represented. An escaliop shell, a mullet, or a hawk have no more connection with great actions than the sound of a letter of the alphabet has with its form. When we read "the first, caure, a sun in its glory" for the name of Kerr, we can see no connection the name of Kerr, we can see no connection the name hawk. have no more connection with great actions than the sound of a letter of the alphabet has with its form. When we read "the first, arure, a sun is its glory" for the name of Kerr, we can see no connection the name of Kerr has more than any other with that glorious luminary. Heraldic signs must then be taken for the meaning known to be intended, though there is no doubt that caprice or accident were often causes for adopting them. In early times kings and the great fendatories granted their arms or part of them to their knightly followers, or the latter adopted them; hence the arms of many families resemble one another, except in tincture. Many of the most ancient coats-armorial were borne long before Heralds College was founded. A. D. 1483. Since then, grants have been made by the sovereigns and the kings-at-arms, and no one in England can bear arms without their lawful authority, and the latter have considerable power for the purpose of preventing parties (by heavy fines, &c.) from bearing arms to which they are not entitled. In order to make this subject more easily understood, it is necessary to give a short account of the emblems of heraldry.—A coat of arms (so called from being formerly embroidered or otherwise exhibited on a surcoat, or coat of mail) is a mark of honor, denoting by different figures and colors variously arranged and displayed, the descent, alliance, or service of the beare. Arms are of eight kinds, viz.: of dominion, adopted by countries or States, as the fleur-de-lis of France, eagle of Austria, and of the United States, &c.; of precession, those of a kingdom upon which a sovereign has a claim, as the arms of Scotland and Ireland are quartered with the lions of England; of concession, or augmentation, conferred by a ruler for extraordinary service, as a heart to the coat of Douglas for carrying the hoart of Robert Bruce to Playerine; of community, belonging to bishoprica, cities, corporations, companies, &c.; of patronage, to governors of provinces, &c., to mark their power or juris

cutcheon, or shield, the favorite shape of which, for the purpose of heraldry, is the Norman shield, somewhat tri-angular in form, called by the French Fancies &cs. It

angular in form, called by the French Fancies & Ca. It is the field or ground upon which arms are blazoned, and may be of any form. The shield of a widow or maiden is loseuge-shaped, that of a banneret is square. The escutcheon is supposed to be divided into nine parts: A, dexter chief; B, middle chief; C, sinister chief; D, honor point; E, fess point; F, nombril point; G, dex ter base; H, middle base; I, sinister base. The rules of heraldry require that metal shall not be placed upon metal, nor color on



require that metal shall not be placed upon metal, nor color on color, though it is sometimes done (chiefly in Italian heraldry), and when a charge lies over a field partly of color, or where an animal is attired, seguied, or chained, with a tincture different from the body. Marks of cadency, chiefs, cantons, and borders are also exempt. The tinctures, or colors, are known by their names; but these change according to rank; thus, the colors of the arms of a sovereign are expressed by the names of knights, bannerets, esquires, and gentlemen, by metals. The colors usually used are nine in number, vis.:—

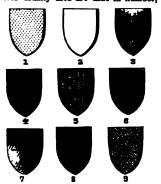


Fig. 1274. - COLORS, OF TINCTURES.

		Gentlemen.	Noblemen.	Princes.
1	Yellow	Or	. Topas	. Bol.
ī	W hite	Argent	. Pearl	Lung
			Ruby	
			Sapphire	
			Diamond	
			Emerald	
			Amethyst	
Ř	Orange	Tenney	Hyscinth	Dragon's bend.
ă	Marman	Genenine	Bandoner	Deserve a tall

These are expressed in engraving by lines (Fig. 1274). Furz (q. v.) are also used for the fields. According to the quaint old herald, Gerard Leigh, A. D. 1597, Or "signifieth power or sovereignty; Argent, chastitic, clear conscience, and charity, — compounded with Sable, it means the yielding up of pleasure; Gules, betokeneth strength, boldness, with hardiness; Asser, of Godly disposition; Sable, the ancientest among colors, signifieth constancie, divine doctrine, heaviness for loss of friends,—compounded with Argent, it means famous; Vert, mirth, love, and gladness; Purpure, jurisdiction; Trency (not a good color) to the bearer thereof, signifieth glorie of himself; Murrey, or Senguine, not to be hastie in battel, and yet a victor." Gold and Black (Or and Sable) is said to be the richest shield; Argent and Sable, the forrest and yet a victor." Gold and Black (Or and Sable) is said to be the richest shield; Argent and Sable, the fairest shield; and Or and Vert, the most gittering shield. The Helmet is placed immediately over the shield, and is the true distinctive mark of gentility. The helmet of a overeign is placed affronts, and has six bars, three on each side; of dukes and marquises, also affronts, but with five bars; of all peers under a marquis, in profile, with four bars. The helmets of baronets and knights, also placed in profile, is open-faced, without bars (beaver slightly raised); but the close helmet is used for all esquires and gentlemen, placed side, standing with bearer closed. The Bantling, or Lambrequin, was









King and Prince.

Baronet as Knight. Fig. 1275.

the ancient covering for the helmet; now it is a mere ornament for the escutcheon, or helmet, and is usually represented by acroll-work, leaves, flowers, furs, mantles, &c., according to the fancy of the painter. When mantles are used, that of a sovereign is represented Or, doubled with ermine; of peers, crimson velvet folded and lined with ermine; of knights, esquires, and gentlemen, crimson velvet doubled with white satin. — The wreath, or force, is made of two skeins of silk twisted together, represented of the principal metal and color of the arms. Formerly しょしし

mo one below a kulght bore the crest set on a wreath, now all wear it.—The chapeaux, or caps of dignity, anciently worn by dukes, are now sometimes used to support the crest, instead of a wreath; but these, as well as ducal coronets, are frequently used for this purpose by families not above the degree of sequire.—The crest, or cognizance, is the highest figure of the ornaments of an escutcheon, though it is not an essential part of coatarmor. Comparatively few crests are hereditary; they are subject to change, and may be assumed or altered at the option of the bearer. (See Carst, and Figs. 591, 1194.) The scroll is the ornament placed above the crest or below the shield, containing the motto alluding to the bearings, or bearer's name, or commemorative of some great action.—Supporters are figures represented standing on the scroll at side of the shield supporting it. They are used only by the nobility, though there are no one below a knight bore the crest set on a wreath, now some great action.— Supporters are figures represented standing on the scroll at side of the shield supporting it. They are used only by the nobility, though there are some exceptions to this rule, especially in Scottish heraldry.—The motto, like the crost, may be taken, changed, varied, or relinquished, when, and as often as the bearer thinks fit; and may even be the same as used by other samilies of similar or dissimilar name. When the motto alludes to the creat, it should be borne over it. Sometimes a creat- and a shield-motto are used in the same arms. By the strict rules of heraldry, women are not allowed to wear a helinet, nor use a creat, nor motto.—The badge, or device, is a figure intended to represent something to be kept in mind by the individual who hears it. The Mowbrays, duke of Norfolk, bore lions and mulberry-leaves, in allusion to their name. The earls of Abergavenry, the portculits and rose, the ancient device of the family. (See Badez.)—Charges are those figures or things which occupy the field, and are emblematic of individual history or character. Anciently, arms were simple and plain, the heralds of those times being of opinion that the less that appeared on a cost, the more honorable it was, and therefore the arms of Waldegrave are only per pale, argent, and gules; of Cleborne, argent, three cherromets, and a chief sable; of Stanbope, quarterly ermine and gules; but nowadays, forty to a hundred guiness will purchase, even from Heralds' College, a field, as Leigh hath it—"full of charge, but empty of honor." When three charges of one kind are used in a shield, two are placed above, and one below, unless they are borne upon a fess or pale. When a chevron or chevronel is borne surmounted by another ordinary, the difference, or mark of cadency, must be placed upon the highest ordinary. If a file, or another ordinary, the difference, or mark of cadency, must be placed upon the highest ordinary. If a file, or label, be used, it should extend from side to side of label, be used, it should extend from side to side of shield, over whole coat, be it one or many; but in a single coat quarterly, it must be placed in the middle of the quarters, over the fess-point of the shield. On a field or ordinary, when one of the latter is placed over a charge, it is said to be debruised by the ordinary. Most charges are taken from the animal or vegetable kingdom. From the former we have lions, wolves, bears, &c.: from the latter, trefolis, garbs (sheaves of corn), trees, &c. A griffin or any other beast is said to be armed or langued of any color, when the teeth, claws, or

Fig. 1276. - COMMON CHARGES.

1. Stag et gare. 2. Stag's head caboshed. 3. Lion, statent guerdent. 4. Lion passent. 5. Lion passent guerdent. 6. Lion resupent. 7. Lion respent guerdent. 6. Lion rempant reguer-dent. 9. Lion sejent. 10. Lion conchent. 11. Tiger passent. 12. Dragon. 13. Dragon's head crosed. 14. Double-headed eagle displayed. 15. Boar's head couped. 16. Serpent bosed debruised. 17. Water-budgets. 18. Fieur-de-lie. 19. Clarion or rest. 20.

tongue is of that tincture. Animals that possess horns and hoofs are said to be armed or unguled in respect of them. A stag or antelope walking is said to be trip-

ping; when attired, the horns are of that color; when at gaze, it is represented looking at the spectator. Bulls, boars, foxes, bears, &c., are favorite emblems, and the heads and limbs of these beasts are borne as charges couped (i.e., cut off), or erased (torn off or jagged). When fishes are borne perpendicularly, they are said to be hauriant; when placed horizontally, niant. The dolphin is usually represented emboused or bent. A pelican is said to be in her picty when she is represented feeding her young. When her wings are placed back to back, they are said to be indorsed. This bird is commonly depicted pecking her breast. A peacock borne affront, with tail expanded, is said to be in his pride. Birds of prey are said to be armed of the color or tincture of which their beaks and talons are represented, and such as have no talons are beaked and membered. The eagle and vulture are usually borne displayed or preyand such as have no talons are bealed and membered. The eagle and vulture are usually borne displayed or prejug. The cock is said to be armed, created, and jelloped, i. e. referring to comb and gills. Birds are represented close, rising, or volant. Trees are said to be eradicated or fructuated of some other color. Leaves, fruits, &c., are usually represented proper, i. e., of their natural color. The escallop shell, the emblem of the Crusader, is of common occurrence. Celestial bodies are frequently met with, as the sun, moon, crescent, mullets or stars, &c. The ancient heralds were fond of imaginary animals, as the wyvern, unicorn, dragon, &c. Saraceus' heads, and other purts of the human body, are not uncommon, and are borne either whole or in part, as in the arms of the Isle the wyvern, uncorn, dragon, ac. Saracens neam, and other parts of the human body, are not uncommon, and are borne either whole or in part, as in the arms of the Isle of Man. Helmets, buckles, horse-shoes, wool-sacks, horns, water-budgets, &c., are also used—in fact, almost all things fanciful, and found in nature, contribute to the heralds' stock of charges.—In marshalling arms, or arranging the various coats in one escutcheon—which is termed a genealogical pennon—great care and an intimate knowledge of the rules of heraldry are required. The husband may impale the arms of his wife, unloss she be an helress, in which case he is to bear her arms on in escutcheon of pretence, and her descendants quarter her arms with the patternal coat. For further information, see the articles on Ordinary, Charge, Ling, &c., under their respective heads. The best work on Heraldry is that of Gwillim. See also Edmondson, Burke, Dugdale, D'Hoxier, Planché, Dallaway's Inquiries, 1783, and Whitimore's Manual, published in Boston in 1868.

Her'alds' College, (Her.) This English institution was founded in 143 by Richard II. of England. It was first situated in the parish of All-Hallows-the-Less, Lon-

Whitmore's manual, published in Soston in 100s. Her'alds' College. (Her.) This English institution was founded in 1433 by Richard II. of England. It was first situated in the parish of All-Hallow-the-Less, London; but was re-incorporated in the reign of Mary, who gave a site on Benet's Hill, Doctor's Commons, on which the present college was built by Sir Christopher Wren. Edward III. was the first English sovereign who created two heraldic kings-a-arms—Surroy and Norroy—whose offices were exercised S. and N. of the Trent, respectively. Richard II. gave the Earl-Marshal power to preside over a Court of thivairy, assisted by the heralds, but the first heraldic collegiate chapter was held at the siege of Rouen, 1420. The kings-at-arms were fixed at three, their present number, by Henry VIII., and in 1528 a regular commission was granted for the whole kingdom, for heraldic visitation, after which period the county visitations were conducted with more system and regularity. The officers of Heralds' College are the Duke of Norfolk, hereditary Earl Marshal. Three kings-at-arms—Garter, Clarencieux, and Norroy, of whom the first holds the highest rank. His duties are chiefly to grant supporters, arrange funerals, coronations, &c., and to present the Order of the Garter to foreign princes. The heralds are six in number, viz. —Windsor, Chester, Lancaster, Somerset, York, and Richmond; they, with the kings-at-arms, form the Collegiate Chapter. The four pursuivants, Portcullia, Rouge-Dragon, Blue Mantle, and Porte-Croix, are merely probationers, who afterwards succeed to the higher offices. It is the duty of the officers of the college to keep the records of the arms, creets, and cogni-

the college to keep the records of the arms, creets, and cogni-zances of all persons entitled to coat-armor. They have con-

zances of all persons entitled to coat-armor. They have considerable authority for the purpose of preventing parties (by fines and other penalties) from bearing arms to which they have no right, and are authorized to assign armorial bearings to persons applying for permission to bear them. To obtain an assignment of arms, it is necessary to memorialise the Earl Marshal, and the applicant is required to produce evidence that he can sustain the rank of gentry. Persons having an hereditary claim to arms which have been disused for one or more generations, are empowered by the college to resme them on proof and registration of pedigree. The fee for a general search is £2 2s.; for an ordinary search, bs.; for copying and registration gedigrees, 6s. and 8d. for the first, and 5s. for every other generation. In Ireland Ulster king-at-arms, and in Scotland Lyon king-at-arms, perform the same duties as Garter in England. In Ireland, the fee for a grant of arms is thirty guineas (£31 10s.), and for a confirmation, ten guineas (£10 10s.)

Her'addship, n. Office or vocation of a herald.

Her'rad, a city of Afghanistan, and the capital of an independent state, situated in a plain near the Herirood River, 380 m. W. by N. of Cabul; Lat. 34° 50' N. Lon. 62° 30' E. It is well fortified, and surrounded by a wet ditch, mound, and bastioned wall. It contains a number of caravanseras, public baths, reservoirs, and numerous

mosques, besides a strong citadel. H. is the emporium of the commerce carried on between Cabul and Bokhara, Hindostan, and Persia, and is a grand central mart for the products of India, China, Tartary, Afghanistan, and Persia. Manuf. Carpets, leather, caps, cloaks, shoes, &c. Pop. about 40,000, of various nationalities. This place has often been ravaged by various conquerors, disputing the empire of Asia. The position of H. is one of the greatest possible importance, and has been well described as the "Gate of India;" for within the limits of the Heratee country all the great roads leading to India converge. By the H. route alone could a formidable and well-equipped army march upon the Indian frontier from the north-west regions. In 1855 the Persians made a renewed attempt to get possession of H.; but, after a short war with England, desisted.— See Afghanistan.

Herault, (hai'rōll.) [Lat. Aruuria.] A river of France, rising in the Cevennes, dept. Gard, which in its S.W. course of 78 m. waters Ganges, St. Guilhem, Pézénas, and Bessan, after which it falls into the Mediterranean at the harbor of Agde.

harbor of Agde.

A maritime dept. in the S. of France, formerly com-

A maritime dept. in the S. of France, formerly comprised in Languedoc. It is bounded along its S.E. side by the Mediterranean. Area, 2,444 sq. m. Its surface is mountainous in the N. and W., fine valleys, however, intervening; the coasts are low, and exhibit extensive lagoons and sait marshes. Climate. Mild and genial, and generally healthy, with the exception of the swampy localities. Rivers. Les, Hérault, and Orbe. Prod. Wine, olives, mulberries, fruits, drugs, and dyes. Minerals. Coal, copper, iron, and various others. Manuf. Cloths, cottons, silks, and woollens, paper, steel, brandy. Chief towns. Montpellier (the cap.), Cette, Agde, and Lodève. Pop. 448,375.

Pop. 448,375.

Herb, n. [Fr. herbe; It. erba; Lat. herba; akin to Gr. pherbō, to feed, to nourish.] (Bot.) A plant with a soft or succulent stalk or stem, which bears its flower and fruit once only, and then with its root wholly perishes. There are two kinds: annuals, which perish the same year; and biennials, which have their leaves the first year, and their flowers and fruit the second, and then die away.—
The term is also extended to plants which live ard blossom during an unlimited number of years, but which die every year in the ground, or near it. They are called Perennial herbs.

Herbacous, (her-bd'shus.) a. [Lat. herbaceus.] Pertaining or relating to, or possessing the nature of herbs; as, an herbacous plant.—Herbivorous; feeding on herbs. (2.)

as, an heri herbs. (R.)

Herbage, (herb'āj,) n. [Fr. and Sp.] Herbs collectively; grass; pasture; green fodder for beasts.

"Thin herbage on the plains, and fruitless fields." - Dryd-

(Eng. Law.) An easement which consists in the right to pasture cattle on another's ground.

Herbaged, (herb'ajd.) n. Covered with grass or pas-

Herb'al, a. Pertaining to, or consisting of herbs; as, an herbal ointment.

n. A collection of specimens of plants, dried and preserved; an herbarium; a hortus siccus.— A book that contains the names and descriptions of herbs or plants;

Herb'alism, n. The study or knowledge of herbs.
Herb'alism, n. One who is skilled in herbs or plants;
a collector of herbs or plants. (Sometimes written herbsorist.)

a collector of herbo or plants. (Sometimes written herborist.)

Herba'riam, n.; (Eng. pl. Herbariums; Lat. pl. Herba'riam, n.; (Eng. pl. Herbariums; Lat. pl. Herbariam, n.; (Eng. pl. Herbariums; Lat. pl. Herbariam; Erom Lat. herba.] A collection of specimens of plants carefully dried and preserved. Such collections are very valuable, — for a well-preserved plant displays its botanical structure in all its minutia, better than the most accurate engraving. In order to compose an H., plants are usually collected in a tin box, called a vasculum, which preserves them from withering for at least a short time. They should be gathered on a dry day, and those which have collected moisture in their leaves should be placed in a vessel of water and be allowed to dry there. It is necessary to kill plants with succulent stems or leaves, by immersing them for a short time in hot water. In order to complete the drying of the specimens, they are placed between layers of bibulous paper, so as not to distort their parts. Pressure is then applied, which varies according to the nature of the plants. Great care is necessary in order to avoid using too much pressure at first. The paper is changed every day, or every second day, and dry paper supplied for a short time. Those specimens which are quickly dried have the best appearance; and some plants which lose their natural color and turn black in the ordinary mode of drying, can be beautifully preserved by a quick process. Thus, in the case of the orchids, and other similar plants, when placed between layers of paper, inclosed in a wire net-work frame, and hung before a fire, where the package is made to turn like meat roasting, they can be exquisitely dried in a layers of paper, inclosed in a wire network frame, and hung before a fire, where the package is made to turn like meat roasting, they can be exquisitely dried in a few hours. By the ordinary process they would require eight or ten days. When properly dried, the specimens are placed in sheets of writing-paper, and may be slightly fastened by making the top and bottom of the stalk pass through slits in the paper for the purpose. The name of the genus and species, the locality where it was found, together with any other interesting information, are then marked beside each. The method of preserving cryptogamous plants is more difficult, on account of the greater quantity of moisture which they contain, and the great delicacy of their texture. Herbaria are generally ranged on a botanical system; and great care is required in order to preserve their contents from the ravages of moths and beetles. Camphor and



a little corrosive sublimate are good preservatives. There are some herbaria in existence which have lasted for centuries, and which are still consulted for the iden-

for centuries, and which are still consulted for the identification of species.

Herb'arise, v. a. Same as Herborise, q. v.

Her'bart, Johann Fridance, a German philosopher, a. at Oldenburg, 1776, was professor of philosophy at the universities of Königaberg and Göttingen. H. developed peculiar opinions in opposition to most of the existing systems of philosophy, rejecting the method of psychology, aiming at a science of mind based on mathematics, and maintaining that philosophy is not a science or explanation of any one subject, but a certain method of treating any subject,—a development and elaboration planation of any one subject, but a certain method of treating any subject,—a development and elaboration of notions or conceptions. But his views are sometimes left in obscurity from the brevity with which he states them. He wrote several works on education in the earlier part of his career, and expounded his philosophical views in the following, among other publications:—Psychologic als Wissenschaft, ness gegründet auf Erfahrung; Metaphysik und Kathematik; Einleitung in die Philosophie; Allgemeine Metaphysik; and Kurze Encyclophidie der Philosophie. D. at Göttingen, 1841.

Herb'ary, n. An herb-garden: a cottage-garden.

Herb'-bemmet, Herb'-bemmett, n. (Bot.) See Grun.

chris'topher, s. (Bot.) The Bane-berry. See ACTAA.

1496

See ACT.#A.

Her'berts, the patronymic of a noble family, eminent in the historical annals of England, represented at the present day by the earls of Carnarvon, Pembroke, and Powis, and by Mr. Herbert of Muckross Abbey, Ireland. Of the more distinguished members of this house we mention:

mention:

Herner of Cherbury, Roward, (Lord.) B. 1581, celebrated for his spirit of knight-errantry and deistical character. In 1610 he served under Prince Maurice of

character. In 1610 he served under Prince Maurice of Orange-Nassau, and was afterwards appointed English ambassador at Paris. During the civil war he sided alternately both with the Parliament and the king. Lord H. is considered the first of English deists; and was author of De Religione Gentilism, and other works.—Bee Hallam's Literary History.

Herbert, George, an English poet, and younger brother of the above, s. 1693, and educated at Westminster and Cambridge. After taking holy orders, he became rector of Bemerton, Wiltz., where he died in 1632. H. is esteemed the best of the older English devotional poets, and his chief production, The Temple, or Sacred Pheme and Private Ejaculations, contains passages of the most exquisite verse. His life was written by Izsak Walton. A new edition of H.'s works was published in London, in 1853.

exquisite verse. His life was written by Isaak Walton. A new edition of H.'s works was published in London, in 1853.

Herry J. Lea, Sidney, (Lord), an English statesman, son of the 11th earl of Pembroke, s. 1810, and educated at Harrow, and Oxford University. Destined for public life Mr. H. entered the House of Commons in 1832 as member for Bouth Wilts, which he represented till 1861. At his entrance upon a political career, he belonged to the Conservative Party, and took office under Sir Robert Peel's administration (1841-5) as Secretary-at-War. As a member of the government, H. had the task of opposing Mr. Cobden's motion for an inquiry into the operation of the corn-laws as affecting agriculture, and, afterwards, on the conversion of Sir R. Peel and his party to free-trade principles, to argue in support of the latter. Quitting office in 1845, Mr. H. became again war secretary in Lord Palmerston's second administration in 1839. During this, his last tenure of ministerial position, he effected radical improvements in the education and sanitary condition of the British army, brought about the amalgamation of the Indian with the royal army, and organized the volunteer force. He, besides, originated many and striking reforms in the working-system of the war-office, and esteemed as his proudest title that which was popularly conferred upon him, the "Soldiers' Friend." In 1861, Mr. H. was raised to the peerage, and his death, occasioned by overwork, occurred within the same year. Lord H. had superior business qualifications, most genial and thorough-bred manners, fluent oratorical powers, and an exhaustees spirit of philanthropy. In him the arts found another Mecsenss; and the fine church built by him in the Byzantine style, near his seat, Wiltion Abbey, near Salisbury, will remain as an enduring monument of his refined taste and noble munificence. By his wife, a lady of the A'Court family, he left two sons, the elder of whom succeeded his uncle in 1864, as 13th earl of Pembroke and Montgomery.

Herring R. Millian

D. 1630

Her'bert, in Mississippi, a post-village of Kemper co. about 90 m. E.N.E. of Jackson.

about wo m. E.N.E. of Jackson.

Herbery, n. A lodging-place; an arbor.

Herbescent, (herbersent,) a. [Lat. herbescens — herbesco, to grow into herbs, stalks, or blades, from herba.]

Growing into herbs.

Herb-carmivorous, a. Feeding upon both vegetable and animal food, as certain animals.

therbiferous, a. [From Lat. herba, herb, and ferre, to bear.] Bearing or producing herbs.

Herb'ist, n. A herbalist.

Herb'ivore, n. Au animal that feeds upon herbs or

Herbiv'orous, a. [Lat. herba, and voro, to devour, to eat up.] Eating herbs; feeding on herbaceous plants.

Herbiv'ereus Whales, s. pl. (Zoll.) A name applied to certain pachyderms, which are whale-like in general appearance, as the manatee and the dugong. Curier has grouped them with the cetaceans incor-Curier has grouped them with the cetaceans incorrectly, since their teeth have flat crowns. They frequently leave the water, crawl upon the shore, and feed upon the vegetation.

Herb'less, a. Without herbs or vegetation.

Herb'oriss, n. Same as HERBALIST, q. v.

Herboriss, tion, n. Act of seeking plants or herbs; botanical study.

The fluor of plants in mineral substances.

The figure of plants in mineral substances.

-The figure of plants in mineral substances.

Her'borize, Her'borize, e. a. To seek plants, or new species of plants, with a view to determine their character and class.

Herbore', Herb'ous, a. [Lat. herborus -- herba.]

Abounding with herbs; resembling herbs.

Herborob'ert, n. (Bot.) See Geranium.

Herborob'ert, n. (Bot.) See Geranium.

Herborob ert, n. (Bot.) See Geranium.

Herb-wommam, n. pl. Herb-women. A woman who sells herbs.

Herby, a. Resembling, having the nature of, or covered with herbs; as, "herby valleys." — Chapman.

Hereulk'meums, or Herbula'num, an ancient and now buried city of Italy, in the Campagna, close to the Bay of Naples, and 8 m. S.E. of that city. The date of its foundation is unknown. Veiletus Paterculus tells us that its inhabitants took an active part in the social and civil wars, and that the city suffered considerably in consequence. Little more is known about it except its destruction, with Pompeil and Stabis, by the great eruption of Mount Vessuvia, A. D. 79. The city appears to have been completely buried under showers of ashes, over which a stream of lavs flowed, and afterwards hardened. The configuration of the coast itself was hardened by the burning torrent; and thus, when the local features were so wholly changed, all knowledge of the city, beyond its name, was soon lost. After a concealment of 16 centuries, accident led to the discovery of its ruins, in 1713, when the Prince d'Elbouf, a French nobleman, who was building a palace at Portici, having need of materials for stucco, sunk a well on his estate to procure them, in course of which operation, traces of the lost city were brought to light. Twenty-five years afterwards, a systematic course of excavation was begun, which successively revealed a theatre, chalcidium, two temples, and a villa. Owing to the clumsy manner in which this work was performed, a small portion of the theatre is all that is now accessible, and the further progress of investigation has long been discontinued. The precious relics of antiquity, so far as they were capable of removal, were taken to Naples, and are now deposited, along with other relics from Pompeii, in a large museum attached to the royal palace. The col-



Fig. 1279. — GATE AT HERCULANEUM.

lection is most extensive, and comprises not only free coes, statues, and works of art, but also articles of house coes, statues, and works of art, but also articles of household furniture, such as tripods, chandellers, lamps, basins, paterre, mirrors, appliances for the tollet, musical and surgical instruments, and even cooking-utensils. The paintings which have been cut from the walls on which they were originally executed have, since their restoration to the light, lost somewhat of their brightness; but the colors are still wonderfully fresh. The statues and busts (of bronze as well as marble) are very numerous, and of exquisite beauty. On the whole, the remains of H, so varied and perfect, throw a strong light on the arts and domestic customs of the Romans. Of late years excavations have been resumed, with important results. The art relies of H. far exceed, in

light on the arts and domestic customs of the Romans. Of late years excavations have been resumed, with important results. The art relics of H. far exceed, in value and interest, those of Pompeii.

Hercula/meuum, in Missouri, a post-village of Jefferson co., on the Mississippi river, 30 m. below St. Louis. It was almost entirely destroyed by a flood in 1844.

Herculeam, (her-ki/li-an,) a. [From Hercules.] Of, or belonging to Hercules; resembling Hercules; very great, difficult, or dangerous; as, herculean labor.—Possessing extraordinary strength, size, force, or power; as, herculean limbs.

Hercules, (her/cu-lis,) s. [Gr. Heracles.] (Myth.) A renowned hero, who in fabulous history was after death placed among the gods. Though the ancients enumerate many persons as having borne this name, the most celebrated of all was the Theban Hercules, who is reputed to have been the son of Jupiter by Alcmene. wife of the king of Argos, whom the god seduced by assuming the likeness of her husband. The jealousy of Juno induced her to send two serpents to destroy the infant

in his cradle, but the child strangled both: he was reared in all the accomplishments of the age, and was endowed with prodigious strength. At eighteen, single-handed and unarmed, he killed a flerce lion; for this and many other public services he was rewarded by Creon. king of Thebes, with the hand of his daughter. The cracle having told him that he must serve Creon's son for twelve years as servant, he fell into a melancholy, which ended in furious madness; during which he divorced his wife, and murdered all his children. To expiste this crime, the king imposed the celebrated twelve labors, each of w bich was supposed to surpass all mortal power to in his cradle, but the child strangled both ; he was rear-

all mortal power to accomplish unaided. To enable him to effect these, the gods bestowed a horse, ar-mor, sword, bow and arrows, a shield, and a club of brass. His first feat was to free a wood in Achaia of the Nemean lion, whose hide was proof whose hide was proof against any weapon, so that he was obliged to seize him by the throat and strangle him. The second labor was to destroy the bor was to destroy the Lern sean Hydra, which had fifty, some say a hundred heads; this he finally de-stroyed with his club. The third was the the third was the capturing, unburt, a stag with golden horns, and swift as the wind; this cost him a year to hunt. The fourth, to bring



the wind; this cose him a year to hunt. The fourth, to bring alive a wild boar of terrific power and flerceness. His fifth was to cleanse the Augean stable where 3,000 oxen had been confined for years; this he effected by turning a river into the stable. The sixth and seventh were the killing of a voracious kite, and the capture of a ferocious buil. The eighth was to possess the mares of the king of Thrace, which fed on human flesh. The ninth was to obtain the girdle of the Amazonian queen. The monster Geryon was the tonth; this was in Spain, when he erected the "Pillars" as a proof that he had been to the limits of the known world. The carrying away of the golden applies from the Garden of the Hesperides was the 11th task; and the 12th and last, the bringing up to earth the three-headed dog of Tartarus, Cerberus. He, moreover, delivered Hesione from a marine monster; separated the mountains of Calpe and Abyla, which formerly were a single mountain, and thus formed the "Pillars of Hercules;" killed the centaur Nessus; delivered Prometheus from his chains on Mount Caucasus; took Troy, to punish King Laomedon for his perjury; and performed a host of other brilliant exploits. Having carried off Iole, dangther of Eurytus, king of Æchalia, he was about to wed that princess, when Dejanira, his wife, fluding herself about to be forsaken, sent him a tunic dyed with the poisoned blood of the centaur Nessus, thinking to regain his affections by that means. H. had no sooner put on the garment, than it adhered to his skin, and caused him the most cruel torments. To end these he kindled an immense fire on Mount Œta, and burnt himself alive. The burning pile was suddenly surrounded by a dark cloud, in which, amid thunder and lightning, H. was carried up to heaven, where Jupiter gave him Hebe for his wife. H. had several wives, the principal of whom were Megara, whom he killed in a fit of passion: and Dejanira, who was the mother of Hyllus. (See Hillus). He lowed Omphale, and spun at her feet to obtain her favors. He had been

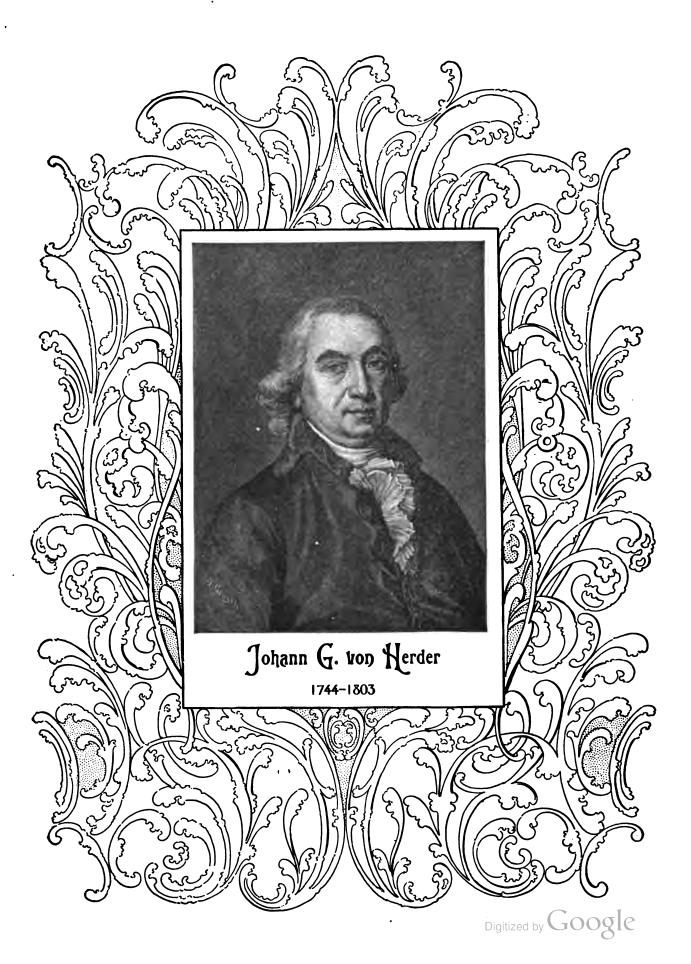
gory of the sun, his twelve labors representing, according to their version, the twelve months, or the twelve signs of the zodiac.

H. (Pillars of.) the name given by the ancients to two rocks forming the entrance to the Mediterranean, generally identified with Calpe (now Gibraltar), and Abits (now Ceuta). See ABILA.

(Astron.) A constellation in the northern hemisphere, formed by the old astronomer Aratus, but considered to have received its present name from some later astronomer. It is surrounded by the constellations Boötes. Draco, Lyra, and Ophiuchus. It contains no stars of the first and second magnitude.

Her'cultes-beedle, n. (2007.) A Brazilian insect of the family Scarabzidz, remarkable for its great size—it being 5 inches long—and for the singular appearance of the male;—an immense horn projecting from the head, and being opposed by a similar but smaller projection of the thorax, the whole resembling a pair of great but somewhat unequal pincers, of which the body of the insect is the handle.

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Hereym'iam Forest. [Lat. Hercynia Sylva.] The ancient name of a forest of Germany, covering a mountain-range generally identified with the Hartz Mountain-range

"Survey the world, and where one Cate shines, Count a degenerate hard of Catilines,"—Drud

Herd, s. [A. S. hird, hierde, hyrde.] One who herds cattle or domestic animals;—much used in composition; as, a shepherd, goatherd, swineherd, &c.—c. s. To run in herds or collected masses, as beasts.

en should, in danger, herd like deer."—Dryden. "Weak won

-To associate; to unite in a company or companies. "Run to towns to Aerd with knaves and fools."-

—r. a. To form or put into a herd. Herd'er, м. Same as Невовили, q. v. Her'der, Јонаин Gottpried von, a German philosopher, theologian, poet, and miscellaneous writer, born in 1744, of poor parents, at Mohrungen, in Prussia, was educated for the church, and became court-preacher, educated for the church, and became court-preacher, ecclesiastical counsellor, and vice-president of the consistory to the duke of Saxe-Weimar; and b. in 1803. At the moment when he died he was writing a hymu to the Deity, and the pen was found on the unfinished line. His works form 45 vols. 8vo., and embrace the most various branches of science, philosophy, philology, natural and civil history, and politics. Among those best known are the Grist der Hebrülischen Poesie; Gedichte; and Ideen zur Philosophie-Geschichte der Menschheit, translated into English under the title of "Outlines of a Philosophy of the History of Man" (London, 8vo.), which is one of the principal and standard treatises on the subject. the subject.

the subject.

Herderite, n. (Min.) A rare mineral from the tin mines of Ehrenfriedersdorf, Saxony. It is of a whitish color, tinged with yellow or green. Sp. gr. 298. Comp. Phosphate of alumina and lime with fluorine.

Herd/man, Herds/man, n.; pl. Herdwick, Herds-

MEN. A keeper of herds; a person employed in tending herds of cattle or other beasts. (Sometimes written

herder.)
Herds woman, n.; pl. Herdswonen. A woman who

Herds'woman, n.; pr. name. tends cattle.

Here, adv. [A. S., Dan., and Goth. her; Icel. her; Ger. and D. hier; Sansk. hi, or ithra, here.] In this place; in the place where the speaker is present; — in contradistinction to there.

"To-day is ours, we have it here."—Cooley.

"Thus shall you be bappy here, and more happy hereafter." Bacon. Here sometimes precedes a verb without a subject, or the latter being employed as an indefinite subject, or the latter being omitted; as, here goes, for here it goes;— especially used in making an offer or attempt, and in drinking healths. "Here's for earnest." (Dryden.)—"Here's to the king." (Prior.)
Here and there, in one place or another; in a scattered manner or condition; at intervals of space.—It is wither here nor there, netther in one place nor in another; hence, irrelevant; unimportant; indefinite.

Here'about, Here'abouts, adv. About this place.
Hereafter, adv. After this time; in time to come; in some future time; in an after state.

—3. The time after this; a future state.

"The Heaven itself that points out a hereafter."—Addison. 'Thus shall you be happy here, and more happy hereafter." Baco

"Tis Heaven itself that points out an Aerester."—Addison.

Hereat', adv. At this; as, "the tribune was offended hereat."—Hooker.

Hereby', adv. By this; by means of this; as, hereby

Hereditabil'ity, s. State or position of being he

reditary.

Hered'itable, a. [L. Lat. hereditablis.] That may be inherited: as, an hereditable monarchy.

Hered'itably, ads. By inheritance; in an heredita-

ble manner.

Heredit'amnent, n. [L. Lat. hereditamentum, from
Lat. heres, heredit, an heir. See Hara.] (Law.) Every
kind of property that can be inherited; i. e. not only
property which a person has by descent from his ancestors, but also what he has by purchase, because his heir
can inherit it from him.

Hered'itarily, adv. By inheritance; by descent from

an ancestor.

Hered'itary, a. [Fr. héréditaire, from Lat. hereditas, inheritance.] Relating to an inheritance; that has descended from an ancestor to an heir; as, an hereditary title or estate. — Descendible from an ancestor; that scend to an heir at law.

"He shall ascend the throne hereditary." -That is or may be transmitted from a parent to a child;

—That is or may be transmitted from a parent to a child; as, hereditary pride, hereditary gont.

Hereford, or Here'fordahire, (her'e-ford,) a county of England, on the borders of Wales, bounded N. by Shropshire, S. by Gloucester and Monmouth, E. by Worcester, and W. by Brecknock and Radnor; area, 836 sq. miles. Prod. Wheat, barley, apples, pears, and hops. Min. Red and yellow ochre, pipe-clay, fuller, searth, and iron-ore on the borders of Gloucestershire. Pris. Towns. Hereford (the cap.), Leominster, Leibury, and Rose. The chief rivers are the Wye, Frome, Lugg, Arrow. and Munnow.

Heret'ically, adv. In an heretical manner; with hereey, and Rose. The chief rivers are the Wye, Frome, Lugg.

Heret'co', adv. To this; hereunto; as, hereto I affix my seal.

HERE

mercon, aar. On this; hereupon.

Heresiarch, (here'st-ark,) n. [Gr. hairesis, heresy, and archos, chief.] A leader in heresy; the chief of a sect of heretics.

Here'siarchy, n. Chief heresy.

Heresiog'rapher, n. [Gr. hairesis, heresy, and graphein, to write.] A writer on heresy.

Heresiog'raphy, n. A treatise or discourse on heresy.

hercey. n. [Fr. hérésie; Lat. hærèsis; Gr. hairesis, from haireō, to take.] The act of holding opinions upon religious matters contrary to the authority and teaching of any religious community to which a person may be presumed to owe obedience. Primitively, however, it was used to designate any opinion that a man or a sect presumed to owe obedience. Primitively, however, it was used to designate any opinion that a man or a sect might choose to adopt; and in this way it was applied to the philosophic sects of the Greeks and Romans. In the New Testament, even, the term is frequently used to designate a religious sect, without any reproach being implied. In this sense it B used in Acts v. 17; xv. 5; implied. In this sense it is used in Acts V. I; XV.5. Xxviii. 22; and Josephus terms the three great Jewish sects, hereries, without wishing to imply any censure. On the other hand, it was used in a reproachful sense by the Apostles towards those who denied their doctrines, and by the Jews towards Christianity. In the writings of the Christian fathers we find the term emoyed towards those opinions which differed from what as deemed to be the doctrine of the Apostles; and later, when Christian teaching came to be regulated by ecclesiastical councils, any one who rejected their deci-sions was proclaimed to be a heretic; while those who sions was proclaimed to be a heretic; while those who gave their adherence to what was settled by these councils were proclaimed to be orthodox, which is still now the destrine of the Roman Catholic Church. It is necessary that hereey should not be confounded with schism, or with apostasy; the latter implying a complete renunciation of Christian doctrine, while schism means only the rejection of some point of discipline, just as hereay denotes any division upon matters of doctrine. The early fathers gave the number of heresies as ranging between 80 and 150, although Dr. Lardner, in his "History of Heretics," demonstrates that these figures aronnewhat exaggerated. Nearly all the heretical opinions current in the first two centuries of the Christian area anuertain to the creation of the world, to the consomewhat exaggerated. Nearly all the heretical optimions current in the first two centuries of the Christian era appertain to the creation of the world, to the connection between Christianity and Judaism, and to the person of our Saviour. The two great sects were the Ebionites and the Gnostics. In the 3d century the Manicharan heresy took birth. At the head of this sect was Minnes, whose object it was to ingraft upon the teachings of the Apostles the rites taught by the Persian magi. Passing over the heretical controversies of Sabellius, of Novation, and of Pull of Samasata, all of which arose during the 3d century, we reach the great Arian heresy, which formed the chief object of the theological discussion during the 3d century, we reach the great Arian heresy, which formed the chief object of the theological discussion during the 4th century. The only new sects which require distinct mention are the Pelagian, which sprang forth in the 5th cent.; the Nestorians, and their adversaries the Eulychians; the Monothelites, the Monosophyles, and the Pullicians. From the very date of the establishment of Christianity in the Roman empire, hereby appears to have been regarded as a crime cognizable by the civil law; and Constantine enacted several severa laws for its repression, which were continued and extended by his successors, and were collected into a struct title. De Herstein: In the Institute of the structure of the continued and extended the continued and extended the continued and continued the continued and extended the continued and continued the continued and extended the continued and continued and continued the continued the continued and continued the continued the continued and continued the continued t nercey appears to have been regarded as a crime cognisable by the civil law; and Constantine enacted several severe laws for its repression, which were continued and extended by his successors, and were collected into a single title, De Hæreticis, in the Justinian code. The penalties of heresy ordained by these enactments are very severe, extending to corporal punishment, and even to death; and they all proceed on the distinct assumption that a crime against religion is a crime against the state. These enactments of the Roman law were embudied in the various codes of the European kingdoms; and in considering the history of the Middle Ages, it is necessary to recollect that the principle above referred to, as to the social bearing of the crime of heresy and of other crimes against religion, pervades the whole system of medieval jurisprudence. It is further to be remembered, that the principles of many of the medieval sects were anti-social and communistical, as well as opposed to the doctrines of the Church; and that their leaders, in many instances, by adopting violent and revolutionary means for the propagation of their doctrines, drew upon themselves the punishment of anarchy and rebellion, as well as heterodoxy in religion. Still, with even these allowances, Catholic historians themselves admit that the medieval procedures against heresy were in many instances excessive, as were, indeed, also the processes and penalties of the criminal code.

Her ette, n. [Fr. heretique; Gr. hairctikos.] One guility of heresy: a person under any religion, but particularly the Christian, who holds and teaches opinions repugnant to the established faith, or to the true faith.

Heret'call, a. Containing heresy; contrary to the established faith, or to the true faith.

Heret'cally, adv. In an heretical manner; with heresy.

receive my compliments; as, nervents please receive my compliments.

Her ford, a town of Prussia, prov. Westphalia, on the Werra, 17 m. S.W. of Minden; pop. 11,000.

Her lot, n. [A.S. hereged:—here, army, and geat, tribute, from geaders, to pour out.] (Eng. Law.) A tribute of fine payable to the lord of the fee on the decease of the

fine payable to the lord of the fee on the decease of the owner, landholder, or vassal.

Her'totable, a. Liable to the payment of a heriot.

Herisam, (her'e-sow.) a town of Switzerland, canton of Appenzel, 5 m. W.N.W. of Appenzel. Manuf. Cottons, silks, linens, and muslins. Pop. 7,865.

Her'issom, a. [Fr.] (Portif.) A beam armed with iron spikes, and used as a barrier to block up a passage.

Heristal. (House or.) (hair-is'tal.) whence sprang the Carlovingian dynasty. It was founded by Pepin "the Young." lord of Heristal, steward of the palace under Thierry III., and afterwards duke of the Franks.

Her'itable, a. [O. Fr.] That may inherit or be inherited; inheritable. — Capable of inheriting.

Her'itably, adv. By way of inheritance.

Her'itage, n. [Fr. héritage, from Lat. hereditas.] Inheritance; an estate that passes from an ancestor to anheir by descent or course of law; that which is inherited.

"Lord of himself - that heritage of woe."

(Script.) The saints or people of God. "O Lord, save thy people, and bless thine heritage." Book Com. Pr. Heritamee, n. Heritage: inheritance. (S.) Heritage. Inheritance. (S.)

Her'ttor, n. In Scotland, a landed proprietor in a purish.

Her'kimer, in New York, a N.E. central co.; area, about 1,459 sq. m. Ricers. Mohawk, Moose, and Black rivers, besides many smaller streams. Surface, hilly; soil, fertile. Mis. Iron, lead, plumbago, gypsum, limestone, and quartz. Cop. Herkimer. Pop. (1890) 45,608.

—A post-town and township, cap. of Herkimer co, on the Mohawk river and N. Y. Cent. R.R., 14 m. E.S.E. of Utica. Pop. of township (1897) about 4,750.

Her'man, n.: pl. Herms. [Lat.] (Greek Antiq.) A small figure or bust of Herm's fixed on quadrangular pedestals on the side and at the crossing of roads.

Her'man, in Wisconsin, a post-township of Dodge co.

CO.

—A township of Sheboygan co.

Herman dad, or Santa Hermandab. [Sp., brotherhood.] (Sp. Hist.) A fraternity founded among different towns and villages to prevent the commission of crimes, and to prevent the abuses and vexations to crimes, and to prevent the abuses and vexations to which they were subjected by men in power. To carry into effect the objects of this association, each village and town elected two alcaldes,—one by the nobility, and the other by the community at large. These had under their order inferior officers, called cuad villeros. Their duty was to arrest delinquents and bring them before the alcaldes, when they were tried substantially in the ordinary form. The abuses occuring in the excrise of the functions of these tribunals caused their abolition, and the Sonias hermandades of Ciudad Rodrigo Talayers, and Toledo, the last remnants of these

abolition, and the Sonias hermandades of Cludad Rodrigo, Talwera, and Toledo, the last remnants of these anomalous jurisdictions, were abolished in 1835.

Hermangarde, (hermangard), the name of several princesses during the Middle Ages.—1. The second wife of Charlemagne, daughter of Desiderius, king of the Lombards, who was drowned in 771, after being married a year.—2. The first wife of Louis le Debonnaire, or queen of Provence.

a year.—2. The first wife of Louis le Debonnaire, or queen of Provence.

Her'smann. See Arminus.

Her'smann, in Missouri river and Mo. Pac. R.R., 81 m. W. of St. Louis. Pop. (1897) about 1,500.

Her'smannite, a. (Mis.) Same as Rhodonnir. (q.v.).

Her'smannite, a. (Mis.) Same as Rhodonnir. (q.v.).

Her'smanos, Los. (Sp., "The Brothers."] A group of islands in the Caribbean Sea, about 50 m. N.W. of the island of Margarita. They belong to Venezuela.

Her'sman's Store, in Ilisois, a village and former post-office of Washington co.

Her'smanstadt [Lat. Obissium; Hung. Nascy-Seebel], a town of the Austrian empire, in Transylvania, on the Cibin, a small branch of the Aluta, 71 m. S.S.E. of Klausenburg, and 70 m. W.N.W. of Kronstadt; Lat. 45° 47' 47 N., Lon. 24° 4' 13° E. Massy. Linens, woollens, hats, leather, and paper. Pop. (1807) about 18,200.

Hermaphrodities—a name derived from the fable of the union into one of the bodies of Hermaphroditos, son of Hermes and Aphrodite, and the nymph Salmacis. See Ovid's Metamorphoses, lib. iv. v. 347.] (Physiol.) An organized body in which there is either a real or apparent combination of the characteristics of the two sexes. True ganized body in which there is either a real or apparent combination of the characteristics of the two sexes. True hormaphrodites are only met with in the lower degrees of the animal scale, among the Zoöphites, Mollusca, and Gasteropoda. The individuals of the human species regarded as H. owe their appearance to a kind of montrosity which renders them unit for generation. H. have, also been described, which, instead of uniting the attributes of both sexes, cannot be considered either as male or female. These have been called neutral H. For further details on this subject generally, the reader is referred to Steenstrup's Untersuchungen über das Vorkommen des Hermaphroditismus in der Natur. (1846.) (Bot.) A flower containing both atamens and pistila.

Hermaphrodism is the rule, and the separating of sexes

Hermaphrodism is the rule, and the separating of sexes the exception, in the structure of flowers.

Hermaphroditie, Hermaphroditical, a. Partaking of both sexes.

Hermaphrodities.

Hermaphroditism, Hermaphrodism, n. The state of an hermaphrodite.

Hermaphriditism, Hermaphrodism, n. The state of an hermaphrodite.

Hermeneutic, Hermeneutical, a. [Gr. hermeneutics: hermeneus, an interpreter, from Hermes, Mercury, the god of eloquence.] Interpreting; explaining; unfolding the signification; as, hermeneutic theology. theology

theology.

Hermeneu'tically, adv. According to the true art of interpreting words.

Hermeneu'tics, s. sing. The science of interpretation; particularly of interpreting the Scriptures. See Expressis.

Hermes, (her'mees.) (Myth.) The Grecian name of

EXECUSION.

EXECUSION.

Hermes, (her'mees.) (Myth.) The Grecian name of Mercurx, q. v., [Gr. Hermes, mercury.] (Min.) A variety of Tetraleprita, q. v., containing mercury. Her'mes Trismegis'tus, a supposed Egyptian priest and philosopher, the friend and counsellor of Osiris, and the first lawgiver and founder of religious ceremonies in Egypt. He taught the Egyptians to cultivate the olive and measure land; the science of hieroglyphics; and to him are also attributed all the mystic pursuits that afterwards made the Alexandrian school so famous. The works extant under the name of Hermes are: Permander, on the Prover and Wisdom of God; Asclepius, a Dialogue on the Deity, Mankind, and the World; and some others supposed to be of less antiquity than these, and all alike regarded as supposititious. Their value, however, will be found very great in any attempt to determine the history of philosophy. In all likelihood the name belongs to two distinct persons, the later of whom was an Egyptian philosopher and legislator, and the Greeks) of all the ancient philosophy and instruction of that mysterious country.

Hermeet'ie, Hermeet'leal, a. [Fr. hermétique, from Gr. Hermes, mercury.] Relating to Hermes; chemical.— Perfectly close, so that no air can escape; secure; incapable of being opened or discovered.

Hermet'e. Art. The imaginary art, or science, of alchemy; so called from Hermex Trismegistus, q.v., looked up to by the alchemists as the founder of their art.— Hermet'leally, edv. According to the hermetic art.— Chemically; closely; accurately; as, a bottle hermetic in the sarly, but more frequently in the later

art.—Unemically; closely; accurately; as, a cortic ner-metically scaled.

Her'mit, Eremite, n. [See Errairs.] A term often applied in the early, but more frequently in the later Church, to a person who, in order to resist the tempta-tions and cares of the world, withdrew himself from society to a cavern, a mountain, a desert, or other soli-tary situation, there to devote himself to prayer, fasting, and mortification of the flesh. — See ANGERITE, ASCET-ICISM.

Hormitage, (her'mi-taij,) n. [Fr. ermitage; O. Fr. hermitage.] The habitation of a hermit; a cell in a se cluded place.

ciuded piace.

Her'maitage, a celebrated French vineyard, on the
banks of the Rhine, 10 m. from Valence, where the famous Hermitage wine is produced. The best red qualities are distinguished by a dark-red color, an exquisite
bouquet, and a taste of strawberries. Their excellence
is only fully developed after having been in bottle for

sveral years.

Hermitage, in California, a P. O. of Mendocino co.

Hermitage, in Georgia, a post-village of Floyd co., 8
m. N. E. of Rome.

Hermitage, in *Illinoia*, a village of Douglas co. 1ts P. O. is Arolla.

Hermitage, in Linicia, a village of Douglas co. Its P. O. is Arcola.

Hermitage, in Louisiana, a post-village of West Baton Rouge parish.

Hermitage, in Missouri, a post-village, cap. of Hickory co., about 80 m. W. S. W. of Jefferson City.

Hermitage, in New York, a village of Suffolk co., about 6 m. W. S. W. of Greenport.

—A post-village of Wyoming co. Pop. (1897) about 300.

Hermitage, in Pransylvania, a post-vill. of Mercer co.

Hermitage, in Virginia, a post-office of Augusta co.

Hermitage, in Virginia, a post-office of Augusta co.

Hermiterah, n. (Lot. See Pacusia.)

Hermiterah, n. (Zoll.) See Pacusia.

Hermitical, a. Pertaining to a hermit, or to a retired life; suited to a hermit.

Hermite Island, an island in the S. Pacific Ceesan, abt. 10 m. of Cape Horn: Lat. 56° 50' S., Lon. 67° 55' W.

Hermodactyle, n. [Gr. Hermes, mercury, and daktylos, finger.] (Mod.) A species of the Colchicum tribe, probably that of the Colchicum illyricum; it is irregularly heart-shaped, and has a furrow upon one side, not unlike the tribe of the Colchicum autumale, now much used in the curve of gout; it is imported from Turkey,

unlike the tribe of the Colchicum autumnale, now much used in the cure of gout; it is imported from Turkey, and was formerly esteemed as a cathartic.

Heremon, a lofty mountain on the N.E. border of Palestine, called also Sirion, Menir, and Sion (Deut. iii. 8; iv. 39). It is a part of the great Anti-Lebanon range, at the point where an eastern and lower arm branches off, a little S. of the latitude of Damascus, and runs in a southerly direction, terminating E. of the head of the Sea of Galilee. (Fig. 1281.) This low range is called Jebel-Heisl. Mount H. is believed to be what is now known as Jabel-sabshith, whose highest aunumit auc. senser-remain. Journe 7. in betteved to be wrat is now known as Jebel-esh-Sheikh, whose highest summit, surpassing every other in Syria, rises into the region of perpetual anow or ice, 10,000 feet above the seu, as it was formerly believed, but 9,000 only according to Lynch, Russegger, and Capt. Warren, who ascertained the height on the 14th of Sept. 1869. Capt. Warren says that the summit is formed by three peaks; that on the southern peak there is a hole scooped out of the apex, the foot being surrounded by an oval of hewn stones; and that at its southern end is a sacellum, or temple, nearly destroyed; the latter appearing to be Roman and of more recent date than the oval.



Fig. 1281.
LAKE MERON, (with Mount Hermon in the distance.)

Ier'mon, in Illinois, a post-office of Knox co.

Her'mon, in Rimois, a post-office of Knox co.
Hermon, in Maine, a post-township of Penobecot co., about 8 m. W. by N. of Bangor.
Hermon, in New York, a post-township of St. Lawrence co., about 10 m. S. W. of Canton.
Her'mon Pomd, in Maine, a post-village of Penobecot co., about 10 m. W. of Bangor.
Her'mon Pomd, in Maine, a post-village of Penobecot co., about 10 m. W. of Bangor.
Her'mon Epomd, in Maine, a post-village of Penobecot co., about 10 m. W. of Bangor.
Her'mon Epomd, in Maine, a post-village of Penobecot the Church during the 1st century, who is said to be the same mentioned by St. Paul in his Epistic to the Romans. He is supposed to have died in Rome, about the year 81. "The Shepherd," the work after which he is named, is still extant, and was translated into English by Archbishop Wake, in 1663.
Hermaneli'las, in Colorado, a village of Pueblo co., about 27 m. S. E. of Pueblo.
Hermaneli'las, in Colorado, a Village of Pueblo co., about 27 m. S. E. of Pueblo.
Hermaneli'las, m., pl. (Bot.) In some classifications, an order of plants, united by Lindley to the Thymellacles (c. v.).

THYMLACAE (q. v.).

RETHAMLACAE (q. v.).

RETHAMLACAE (q. v.).

RETHAMLACAE (q. v.).

Retham (de, in Florida, a W. co., bordering on the Gulf of Mexico; area, about 520 sq. m. Ricers. With-lacoochee river, and some smaller streams. Surface, level; sod, in general fertile. Cap. Brooksville. Pop. (1890) 2,476.

(1890) 2.470.

\*\*Hernan'do, in Mississippi, a post-village, cap. of De Soto co., about 200 m. N. of Jackson. Pop. (1890) 602.

\*\*Hern'don, in Georgia, a post-village of Burke co., on the Central R. R. of Ga.

the Central R. R. of Gas.

Hern'dem, in Pensayania, a post-village of Northumberland co. Pop. (1897) about 425.

Hern'dem, in Virginia, a post-town of Fairfax co, about 23 m. N. W. of Alexandria. Pop. (1890) 795.

Herne Bay, a watering-place of England, co. Kont, 8 m. N. E. of Canterbury, near the mouth of the Thames. It is a favorite summer resort of the Londoners, and has a pier extending 3,000 feet into the river. Pop. 2,200, and about 10,000 during the bathing-season.

Her'nia, n. [Fr. hernie; Gr. hernos, a branch, from its protruding forward.] (Med.) A general term in morbid anatomy applied to the protrusion of any viscus from its natural cavity. In a more restricted sense, however, the word only signifies a protrusion of the abdominal viscora. H. in the latter form is unfortunately very frequent. Many causes contribute to this frequency. frequent. Many causes contribute to this frequency. There are three natural openings which are weak and unprotected in the walls of the abdomen. These open-These openunprotected in the walls of the abdomen. These openings yield easily, and permit the escape of any viscus that may be pressed towards them with even a moderate degree of force. The nature of the walls, too, which are principally composed of muscles, and the condition of the viscera within—loose, liable to change of size and situation, and subject to irregular pressure by the contractions of these muscular walls—all unite to render these weak situations still more weak. The places referred to are called the umbilicus, and the inguinal and femoral canals. There are, however, other situareferred to are called the umonicut, and the inguinal and femoral canals. There are, however, other situations where hernia may occur, though such cases are unfrequent. It is also evident that if the muscles or tendons of the diaphragm are wounded, some portion of the contents of the abdomen may escape; thus constituting the varieties of ventral and phrenic hernia. The tuting the varieties of ventral and phrenic hernia. The forms of this disease have consequently been arranged and named according to the places where they occur. Besides this division as to situation, there is another of great importance, derived from the nature of the viscus displaced. Men are much more liable to H. than women, displaced. Men are much more liable to H than women, the proportion being about four to one, and the liability to the disease increases with years. A hernia is always composed of a "sac" and its contents. The former is a portion of the peritoneum pushed forward by the protriding viscera, and ferming a pouch. The contents of the sac vary greatly: but generally consist of a portion of the small intestines, especially the ilium. A certain quantity of fluid is always found secreted in the sac, together with the viscera. The principal divisions of the ordinary disease are: reducible (when it is returnable into the abdomen); irreducible, and strangulated hernia. Reducible hernia is treated either with a truss,

so as to retain the protrusion within the cavity of the abdomen, or the treatment may be radical, the contrivances for which are purely surgical. In the former case, each particular kind of hernia requires its special form of trues, and before applying it, the H. must be reduced by placing the patient on his back, relaxing the muscles by bending back the thigh, and pressing the tumor back in the proper direction. The protruded viscus cannot be returned into the abdomen in irreducible hernia. Cases of this kind are treated either by means of a truss having a hollow pad, so as to embrace the tumor, or radically, in some cases by keeping the patient recumbent, on low diet, for two or three months, during which time the bowels are kept open by laxatives and injections, the tumor being equally pressed during the time. When a portion of the intestine protruded is so tightly constricted that it not only cannot be returned into the abdomen, but has its circulation arrested also, the disease is called \*trangulated\* kerxaic. If relief is not speedily obtained when the disease occurr in this form, it is highly dangerous; for the strangulated part become gangrenous. If the intestines cannot be returned by pressure, chloroform is administered internally see as to relax the muscles or a hother that her here. so as to retain the protrusion within the cavity of the

in this form, it is highly dangerous; for the strangulated part becomes gangrenous. If the intestines cannot be returned by pressure, chloroform is administered internally so as to relax the muscles, or a hot-bath, or bleeding to the verge of faintness. If none of these methods are of any avail, the operator is obliged to divide the constriction by means of the knife.

Her'mial, a. Pertaining to, or connected with, hernia. Hermia'rias, a. (Bot.) A genus of plants, order likectraces. The species H. glabra, the Burst-wort, which was formerly considered efficacious in the case of hernia, seems destitute of all virtue.

Her'meanand, (Wester-Norrland.) a province of Sweden, bounded N. by Lapmark, E. by the Gulf of Bothnia, S. by Angermannland and Dalecarlia, and W. by Norway. It lies between Lat. 62° and 64° N., and Lon. 15° and 19° E.; area, 9,500 sq. m. Prod. Grain, flax, timber, tar, and pitch. Ppp. 94,000.— Its capital, liernosand, on the W.coast of the island of Hernos, is joined to the mainland by a bridge 230 m. N. of Stockholm. Massaf. Flax, salt, linseed-oil, brandy, and ship-building.

Herm'shaw, s. Same as Hernonshaw, q. e. He're, s. [Lat. heros: Gr. heros: probably akin to Ger. herr, lord, master, and to O. Ger. her, heri, high, sacred: Sax. hear, high, proud.] A chief: a man of distinguished valor, intreplidity, or enterprise in danger; a prominent personage in any great action or event.

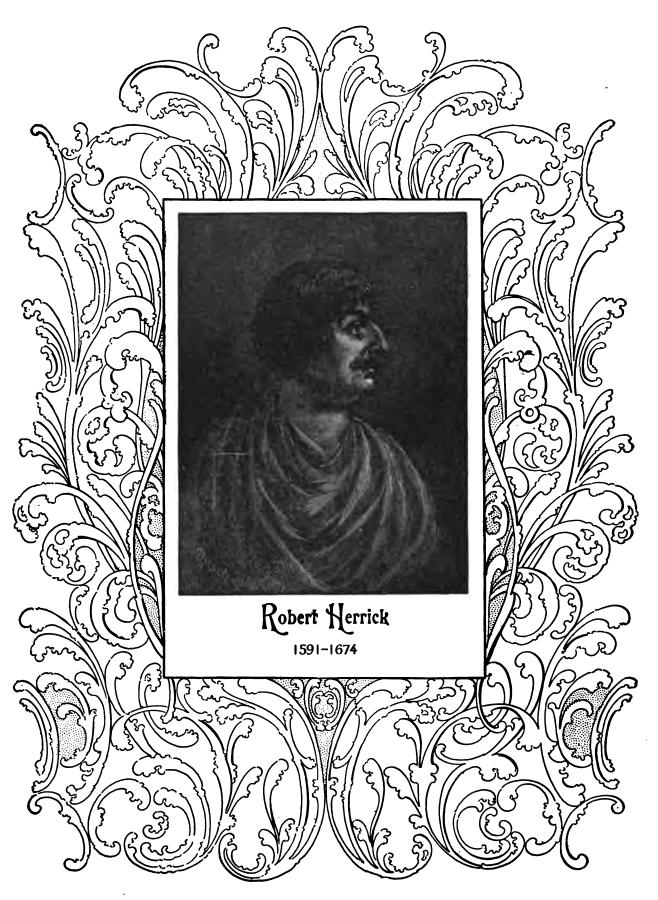
(Lié.) The principal personage of, or the person who

valor, intrepldity, or enterprise in danger; a prominent personage in any great action or event.

(L44.) The principal personage of, or the person who has the principal share in the transactions related in, a poem or romance. —(Myth.) In the Homeric poems, H. is a title of honor, not only for those who were employed as leaders or fighting men in war (the Dannans and Acheans being collectively called Aeroer, but even for heralds and ministrels, and for the unwarithe Phascians. (Od. vii. 44.) In the Hesiodic Theogony, the Heroes are represented as a race of men interposed between the Brazen and the Iron Age, who fought at the sieges of Troy and Thebes. The exaltation of this race, which even in the Riad (xii. 23) is styled a race of demigods, was completed before the time of Findar, who which even in the 10.05 (211.23) is styled a race of demigods, was completed before the time of Pindar, who makes them a race between gods and men. As so used, the term denoted especially those who were sprang from the union of a divine with a mortal being: as Perseus from that of Zeus with Danaë, and Achilles from that of Thetis with Peleus. But in the later historical writers, the heroes are commonly inferior local deities, as for instance the eponymous heroes of the Attic tribes. Their chapels, termed 'Hooa, although supported by the state, were always distinct from the temples of the

state, were always distinct from the temples of the national gods.

Her'od, the name of several princes, Idumscans by descent, who governed either the whole or a part of Judea, under the Romans. The two principal are: Heron year Great, the son of Antipater, who appointed him governor of Gaillee. Antony appointed him tetrarch, and Augustus made him king of the Jews. He governed with savage crueity, and sacrificed his wife Mariamne, her grand-ther Hyrcanus, and brother Aristobulus. At the birth of Christ he caused all the infants of Bethlehem to be massacred in hones that he would fall among the nurs. father Hyrcanus, and brother Aristobulus. At the birth of Christ he caused all the infants of Bethlehem to be massacred, in hopes that he would fall among the number. He also put to death his sons Alexander and Aristobulus, so that Augustus said, "It was better to be Herod's hog than his son." He rebuilt the temple of Jerusalem, and, in a time of famine, sold his curiosities to relieve the sufferers. D. at the age of 70, after a reign of 37 years.—Herood Antipas, the son of the above, succeeded his father as tetrarch of Galilee. He divorced his wife, the daughter of Aretas, king of Arabia, and espoused Herodias, the wife of his brother Philip, on which Aretas declared war against him. Herod sacrificed John the Baptist to the cruelty of Herodias, and his conduct occasioned the Jews to revolt. Being called to Rome to justify his conduct, he died on the road. This is the Herod to whom Christ was sent by Pilata. Hero'dlams, n.pl. (Script.) A sect existing among the Jews at the period of our Saviour's praching. (Mathew xvi.: Mark viil. 15.) Much doubt exists as to their history and tenets; some commentators, both ancient and modern, imagine that they were fanation, who regarded Herod the Great as the Messiah; othera, that they were a mere political party, attached to the family of Herod; while a third opinion (Bergier, Dictionative de Théologie) is, that they supported some inovations attempted by Herod in the religious observances of the country by the partial introduction of Pagan usages.



Great and Mariamne, daughter of Aristobulua, and sister of Herod Agrippa I. She was first married to her uncle Herod Philip, but afterwards abandoned him and connected herself with his brother Herod Antipas. It was by her artifice that Herod was persuaded to cause to be put to death John the Baptist, who had boldly denunciated the incestious connection which subsisted between her and Herod

put to death John the Baptist, who had boldly denunciated the incestuous connection which subsisted between her and Herod.

Herod'otms, the "Father of History," a native of Hall-carnassus, a Dorian city in Asia Minor, was born B c. 434, and was perhaps alive in the beginning of the following century. According to Suidas, his father was called Lyxas, and his mother Dryo, both descended from noble Halicarnassian families. Disgusted with the government of Lygidamis, the grandson of Artemisia, who was tyrant of his native city, he retired for a time to the island of Samos, whence he acquired the Ionic dialect, in which he afterwards composed his history. To collect the necessary materials for his great work, he entered, in early manhood, upon that course of putient and observant travel which was destined to render his name illustrious in all future ages. During his wanderings, he visited almost every part of Grecce and its dependencies, and many other countries, the affairs of which are treated in his work, investigating minutely the history, manners, and customs of the people. The shores of the liellespont, Scythia, and the Euxine Sea. Syria, Palestine, Colchis, the northern parts of Africa, Ecbatana, and even Babylon, were the objects of list unwearied search. On his return from his travels, he took a prominent part in delivering his country from the tyranny of Lygdamis. But the expulsion of the tyrant did not bring tranquillity to Halicarnassus, and H., having himself become an object of dislike, again quitted his native city, and settled, along with a colony from Athens, at Thurii, in the south of Italy, B. C. 443. Here he spent the remainder of his life, and here he wrote the work which has immortalized his name. The time and place of his death are matters of dispute. According to some he died at Thurii, and was buried in the market-place, while others assert that he died at Pella, in Macedonia. His history consists of 9 books, which bear the names of the 9 Muses. "Next to the 'Iliad' and 'Odyssey." says Col. and neterogeneous nature of its materials, and in the harmony of their combination, in the grandeur of its historical masses, and the minuteness, often triviality, of its illustrative details, it remains not only without equal, but without rival or parallel in the literature of Greece or Europe."

Hero'te, a. [Lat. heroicus; Fr. héroique.] Pertaining to, or resembling a hero or heroes; sa, heroc valor.—Becoming a hero; bold; illustrious; valorous; gallant; brave; intrepid; deserving or obtaining distinction by courage or magnanimity; as, heroic enterprise, heroic endurance.

H. A. S. H. B.

endurance.

H. Age. See Hero.

H. Poetry. (Lit.) That poetry which recites the achievements of heroes; epic poetry.—H. Verse. (Pros.) The verse appropriated to epic or heroic poetry;—in Greek and Latin, the hexameter; in English, Italian, and German, the iambic of ten syllables, either with or without the additional short syllable; in French, the iambic of in French, the iambic of

receive systance.

Hero'cally, adv. In the manner of a hero; with valor; bravely; courageously; intrepidly; as, the troops fought heroically.

Heroi-com'ic, Heroi-com'ical, a. Consisting of the heroic and the ludicrous; denoting the high burderic and the ludicrous.

or the neroic and the luncrous; denoting the nigh our-leaque; as, an heroi-comic poem.

He'roime, n. [Fr. héroine.] A female hero; a woman of brave spirit.

—The principal female character in a poem, novel, or drama, or one who figures prominently in any remarkable action.

drama, or one who figures prominently in any remarkable action.

He'roism, n. [Fr. héroisme.] The qualities of a hero; bravery; gallantry; intrepidity; daring; courage; boldness; magnanimity.

Her'on, n. [Fr.; Lat. ardea.] (Lost.) The common name of the sub-family of birds Ardeine, a division of the family Ardeide, of which the common Heron (Ardea cinerae) is the general type. The characteristics of the Ardeine are as follows:—Beak long, strong, straight, compressed in a lengthened cone, upper mandible elightly cnannelled, ridge rounded, nostrils lateral, basal, pierced longitudinally in the groove, and half closed by a membrane; legs long, slender, naked above the tarsal joint, 8 toes in front, the 2 outer united by a membrane, 1 toe behind directed inwards, claws long compressed, sharp, the middle claw denticulated on the inside; wings of moderate length, the first quill-feather a little aborter than the second or third, both of which are the longest in the wing. The common H. is one of the most numerous, as well as the best known of wading-birds, and formerly the bird was considered royal game, and statutes were passed for its preservation in most of the European states. The H. is said to be very long-lived, and was formerly held in considerable estimation as an article of food. It visits Scandinavia in summer, going occasionally as far north as the Farce Islands, Iceland, and the southern coast of Greenland; but it is most abundant in Holland. The plumage is

HERP



habits of the H. are well known; for, except during the breeding-season, when they congregate in large flocks, they are generally seen alone. Their food is nearly entirely composed of fish, and they will be seen for hours standing by the side of ponds and streamlets, watching for their prey, which they catch by a single dart of their powerful beak. Like the rooks, they build their nests on trees with sticks, lined with dried grass, wool, and other warm naterials, (Fig. 1282.) The female lays from 4 to 6 eggs, of a pale greenish-blue color. The H. is largely represented in America; and one of the largest



Fig. 1283.—THE GREAT BLUE HERON, (Ardea Herodias.)

species, the Great Blue H., or Crane, Ardea Herodias, (Linn.,) (Fig. 1283,) is common in the United States. It measures upwards of 5 feet in length; the beak is 8 inches long, and of a brown color, inclining to yellow on the sides; on the back of the head is a long-feathered crest; the space between the beak and eye is naked, and of a pale-yellow; all the upper parts of the body, with the belly, tail, and legs, are brown; the quille black; the neck, breast, and thighs rufous. Like the other species, it frequents the borders of the lakes and rivers, and feeds on reptiles and small fishes. When wounded, it at once prepares for defence; and the dog or man who comes within reach is sure to receive a severe wound; and the danger is greater as these birds generally aim at the eye.

generally aim at the eye.

Her'en Isles, a group of islands in the Gulf of Mexico,
S. of the mouth of Mobile Bay; Lat. 30° 12' N., Lon.

88° W.

S. of the mouth of Mobile Bay; Lat. 30 12 N., Lon. 880 W.

Her'onry, R. A breeding-place for herons.

Her'onry-bill, n. (Bot.) See Erddium.

Heronshaw, Hern'shaw, R. A Heron, Q. v.

Herosh'logist, n. [Gr. heros, and logos, discourse.]

One who treats of, or discourses upon, heroes.

He'ro's Fountain. See Fountain of Hero.

He'ro'ship, n. The character of a hero.

He'ro'ship, n. The worship of heroes, practised by the nations of antiquity; hence, extravagant admiration of heroes, or heroic qualities.

Herpes, (herpess.) n. [Lat. and Gr.] (Med.) A discase of the skin, consisting in the eruption of small aggregated vesicles. Several varieties of H. are mentioned by systematic writers on skin-diseases. A common form is familiarly known as shingles. In this, which, though sot a dangerous is a very troublesome disease, patches of herpetic vesicles extend either quite around, or half around the body near the waist. The treatment of H. in its several forms consists merely in correcting the state of the secretions by alteratives and aperients.

around its fixed centre.

Hefre'ra, Francesco, el Vicjo, (the elder,) an eminent Spanish painter, B. at Seville, 1576. He was employed to paint in the palace and churches of his native town, and he also painted many genre subjects. A Lat Judgment, and a Descent from the Cross, are among his principal works. D. about 1650.—Herrera, Francesoo, el Mozo, (the younger,) son of the preceding, and also a painter, B. at Seville, about 1622. He studied at Rome, and after his return became second president of the Academy of Painting, Murillo being then president. He afterwards went to Madrid, and became first painter to Philip IV. D. about 1670.—There were several other artists of the name of Herrera contemporary with the artists of the name of Herrera contemporary with the

afterwards went to Mindrid, and became first painter to Philip IV. D. about 1670.—There were several other artists of the name of Herrera contemporary with the above.

Herre'ra-Tordesil'las, Anvonio D., a Spanish historian, B. 1559, who wrote a General History of the Spanish Conquests in America between 1492 and 1554, a very elaborate and valuable work, in 4 vols. folio. He also wrote a General History of Spain during the reign of Philip II., in 3 vols. folio, and other important historical works. D. 1625.

Herrefie, Robert, an English poet, B. in London, 1591, and educated at Cambridge. He is the author of some of the most charming pastoral and anacreontic verse in the language, partaking largely of the quadut imagery and melodious expression of the Elizabethan school. The Hesperides may be esteemed his principal work. Many of his songs, as Cherry Ripe, &c., are popular even at the present day. A selection of H.'s poetical works, edited by Prof. Child, was published at Boston, in 2 vols., 12mo., 1856, and a new edition was also brought out in London, in 1859.

Herrelek, in Pennsylvania, a post-township of Eradford co. Pop. (1897) about 220.

Herrelek, in Pennsylvania, a post-township of Bradford co. Pop. (1897) about 220.

Herrelek, in Pennsylvania, a post-township of Bradford co. Pop. (1897) about 290.

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Herrelek, The Hength of the fact of the H., compared to the length of the body alone, without the head or caudal rays, is as 1 to 4; the depth of the body compared to the whole length of the fash, as 1 to 5; the commencement of the dorsal fin is half-way between the point of the popular point of the popular point of the size of the other fins. The ventral fin arises considerably behind the line of commencement of the dorsal fin, and is small, with elongated axillary scales, its origin half-way between the origin of the ventral and the end of the f

ing the appearance of extravasation when the fish has been dead some twenty-four hours. The dorsal and caudal fins are of a dusky hue, and those on the lower parts of the body almost white. The opinion, once entertained, that the proper home of the H is within the Arctic Circle, and that its vast shoels issue thence at tertained, that the proper home of the H. 1s within the Arctic Circle, and that its vast shoals issue thence at certain seasons, migrating southward, and spreading themselves along the shores of Europe, Asia, and America, is sow discarded as utterly without foundation; and the H is believed to be an inhabitant of deep water, from which, at certain seasons, it approaches the shores, probably never migrating to any great distance. The young are abundant in the shallow water near the shores at seasons when the parent fish are absent. The H seems always to deposit its spawn in comparatively shallow water, and is said to be very indifferent whether the spawning-ground be sandy, rocky, or covered with submarine vegetation. Certain localities, however, have the reputation of being favorite spawning-grounds. When the great annual sheals of herrings appear on the coasts, they generally swim near the surface of the water, and are followed by multitudes of larger fishes, as hakes, dog-fishes, &c., which prey on them; great numbers also fail a ready prey to gulls and other sea-birds, which congregate for the occasion. The food of the H. is believed to coasts thelefy of minute crustaceans and acalepha; but it feeds also on small fishes, not scrupling to devour even the vonce of its own swells. is believed to consist chiefly of minute crustaceans and caclepha; but it feeds also on small fishes, not scrupling to devour even the young of its own species. The immense multitudes of herrings annually taken by the net cause no apparent diminution of their abundance, the destruction being compensated for by prodigious fecundity; more than 68,000 eggs have been counted in the roe of a single female. But  $H_{-}$  without any apparent cause, often desert parts of the coast where for a time they have been remarkably abundant, not returning in similar plenty till after the lapse of a number of years. The

years. The common American herring has been classed as a distinct species C. elon-gala, but is now considered to be a variety of C.



Mg. 1284.—HERRING. (Clupes elongats.)

a variety of C.

Aars agas, the
European species. The fish locally known as the H. in
the States S. of Maine, is the alewife (Alosa tyransus),
belonging to the same genus as the shad, which is
nearly allied to the H. It is very abundant, and is much
esteemed. C. mirabilis, the Pacific coast species, closely
resembles the common H. Its abundance resembles
that of the Atlantic H., and the fishery is of growing
importance. H. are full of roe in the end of June, and
continue in season till the beginning of winter, when
they deposit their spawn. The young H. begin to
approach the shores in July and August, and are then
from half an inch to two inches long. The H. was
unknown to the ancients, being rarely, if ever, found
within the Mediterranean. The Dutch are said to have
engaged in the fishery in 1164. The invention of pickling or salting H. is ascribed to one Benkels, or Benkelson, of Biervliet, near Sluys, who died in 1397. The
emperor Charles V. visited his grave, and ordered a magnificent tomb to be erected to his memory. Since this
early period the Dutch have uniformly maintained their
ascendency in the H. fishery. The mode of fishing for harengus, the early period the Duton have uniformly maintained their ascendency in the H. fishery. The mode of fishing for H. is by drift-nets, very similar to those employed in the pilchard fisheries; the fishing is carried on only in the night, the most favorable time being when it is quite dark, and the surface of the water is ruffled by a breeze. The seine is largely employed in the alewife fisheries along the Atlantic coast.

Her'ring, in Ohio, a post-office of Allen co.

Her'ring, io Ohio, a post-office of Allen co.

Her'ring-bone, n. Pertaining to or resembling the spinal bone of a herring; as, herring-bone stitch, a kind of cross-atich in seams.

Herring-bone work. (Building.) Masonry in which the stones are laid aslant instead of being bedded flat.

Her'rington's Corners, in New York, a village and former post-office of Chemung co.

Herrin's Prairie, in Illinois, a village of Williamson co. Its post-office is Herrin.

Her'riottsville, in Pensujoussia, a village and former post-office of Washington co.

Herrin'huter, n. [From Herrahut, in Upper Lusatia, Germany, the first established abode of the sect.] (Eccl. Hist.) See Morayland.

Hers, pron. Jen. possessive. (Gram.) Of her; belong-

Hers, pron. fem. possessive. (Gram.) Of her; belonging to her; as, this house is hers—i.e., this is her house.

Hers, pron. Jem. possessive. (Gram.) Of her; belonging to her; as, this house is hers—i.e., this is her house.

"My eyes are of her washed than hers."—Shaks.

Herschel, (hêr'shel,) n. [From the discoverer, Sir W. Herschel.] (Astron.) Same as Ukanus, q. v.

Herschel, (hêr'shel,) Sir William, F. R. S., a distinguished astronomer, B. at Hanover, 1738. He was educated as a musician, and early in life entered one of the bands belonging to the Hanoverian army. Finding no chance of promotion in his own country, H., in 1757, repaired to England, where he met with success as a teacher and director of music. Imbued with a taste for, and having acquired a considerable knowledge of astronomy, he resolved to construct for himself a telescope wherewith to view the celestial phenomena he had hitherto read of only. He accordingly completed, in 1774, a 5-feet Newtonian reflector, with which he could see the satellites of Jupiter and the ring of Saturn. Not contented with this, H. made in succession no fewer than 200 sever-feet, 150 ten-feet, and about 80 teenty-feet telescopes. His first regular observations with the telescope were made in 1776 and following years, and were published in the Philosophical Transactions for

1780. In 1781 he discovered what he at first thought a comet, but which turned out to be a new planet, which he called the Georgium Kidus, but which has since received the name of Uramus, from its being next to Saturn. After this discovery, which spread his reputation over Europe, King George III. munificently enabled him, by the grant of a salary, to devote the whole of his time to astronomy. He therefore took up his residence at Datchet, near Windsor, where he made many discoveries in double and triple stars, on the proper motion of the sun and solar system, the spots at the pole of Mara, and the nebulæ and cluster of stars observed by Messier and Mechain. In 1787, H. discovered a 2d and 4th satellite of the Georgium Sidua, and in 1790 and 1799, five other 1780. In 1781 he discovered what he at first thought a the nebuls and cluster of stars observed by Messler and Mechain. In 1787, H discovered a 2d and 4th satellite of the Georgium Sidus, and in 1790 and 1799, five other satellites, viz., the 1st, 3d, 5th, and 6th, all of which move in a retrograde direction, in orbits almost perpendicular to the plane of the ecliptic. In 1781, George III. defrayed the expense of a 40-feet telescope with a mirror 4 feet in diameter, 3½ inches thick, and weighing 2,118 lbs. With this magnificent instrument H discovered the 6th and 7th satellites, and also the spots, belts, and flattening on the 4 new planets between Mars and Jupiter. Till 1820, Sir William communicated almost every year important papers to the Royal Society on nebules, clusters of stars, the construction of the heavens, the motion of the solar system, on double stars, and on the 4 new planets between Mars and Jupiter. We owe to him also the discovery of invisible heating rays beyond the red extremity of the spectrum. Sir William H was a member of the principal scientific societies of Europe and America; was created LL. D. in

neating rays beyond the red extremity of the spectrum. Sir William H. was a member of the principal scientific societies of Europe and America; was created LL.D. in 1786, and in 1816 received the Cross of the Royal Guelphic Order. In 1820 he was elected the first president of the Royal Astronomical Society, and published in the first vol. of its Transactions a paper on 145 new double stars. D. Aug. 25, 1822.

BERSCHEL, SIR JOHN FERDERICK WILLIAM, BART, F. E. S., D. C. L., only son of the preceding, B. 1792. He was educated at Cambridge, where he became senior wrangler in 1813, and following in his father's footsteps, devoted his future career to astronomical pursuits. In 1816 he received the gold medal of the Royal Astronomical Society for observations on 10,000 multiple stars, and in 1823 presented to the Royal Society a catalogue of 380 double and triple stars, whose positions and apparent distances had never until then been fixed. In 1830, he published measurements of 1,236 stars, which he had discovered with his 20-feet reflecting telescope. At the same time he also devoted his attention to physics, the results of which appeared in his Treatize on Sound; Treatize on the Theory of Light; Treatize on Astronomy, the same time he also devoted his attention to physica, the results of which appeared in his Treatise on Sossad; Treatise on the Theory of Light; Treatise on Astronomy, &c., besides a great number of scientific memoirs pub-lished in the Royal Society's "Transactions," &c. He spent four years (1834-8) at the Cape of Good Hope, where he examined the whole Southern celestial hemiswhere he examined the whole Southern celestial hemisphere, and derived important meteorological and astronomical observations therefrom. In 1838 he was elected president of the Royal Society, and created a baronot; in 1839, an honorary D. C. L. of Oxford; and in 1842 was elected Lord Rector of Aberdeen University. In 1848 he filled the office of President of the Royal Astronomical Society; in 1850, published his valuable Outlines of Astronomy, and in the same year was appointed Master of the Mint, which post he resigned in 1855. D. 1871. Her'schelite, n. (Min.) A white or coloriess mineral, found in hexagonal tubular crystals. Sp. gr. 206. Comp. Silica 47:39, alumina 20-90, lime 0:38, soda 8:33, potash 4:39, water 17:84.

4·39, water 17·84.

Herse, n. [Fr., a portcullis, from Lat. hirper, gen. hirpicis, harrow.] Originally, a frame whereon lighted candles were placed at the obsequies of distinguished

persons.

(Fortif.) (Also written Hersillon.) A lattice or portcullis armed with spikes, used to close a gateway; also,
a harrow used in lieu of a cheval-de-frise to impede the advance of an enemy.

-A heurse. See HEARSE.

-v. a. To put on or into a hearse.

"Would she were hereed at my foot."—Shake.

"Would she were kersed at my foot."—Shaks.
—To carry to the grave.

Herself, pron. [Her and self.] (Gram.) The emphasized and reciprocal form of she and her, denoting a female; as, she herself is to blame for this; — used, also, in the predicate, both in the nominative and objective cases; as, it is herself, she deceived herself.—In her proper, true, and real character; hence, mistress of her own thoughts and actions; self-governing; sane; in her right mind; as, she is now herself again, she has come to herself.

own thoughts and actions; self-governing; sane; in her right mind; as, she is now herself again, she has come to herself, alone; unaccompanied; solitary; apart; as, she chooses to walk by herself.

Her'sey, in Michigan, a post-village, cap. of Oscoola co., on F. & P. M. R.R., 66 m. N. of Grand Rapids.

Her'seyville, in Wis., a post-village of St. Croix co.

Hers'feld, or Hissch'feld, a town of Prissia, prov. Hesse-Nassau, on the Fulda. Masuf. Woollen cloth, and serge. Pop. (1897) about 6,950.

Hers'ifon, n. (Fortif.) See Herse.

Hers'man's, in Illinois, a post-village of Brown co.

Hers'tal, Her'istal, a town of Belgium, prov. of Liege, on the Meuse, 3 m. N.E. of Liege. Manuf. Iron and steel goods. It was in ancient times a fortress, and from it Pepin d'Héristal, progenitor of Charlemagne, took his title. Pop. 6,600.

Hertford, or Herts. (hart'ford.) a county of England, bounded N. by Cambridge and Bedford, E. by Essex, S. by Middlesex, and W. by Buckingham and Bedford; area, 511 sq. m. Manuf. Straw-plaiting and paper-making. Prod. Wheat, barley, oats, turnips, hay for the London market, and the county carries on a large trade in mait. The chief rivers are the Ouse, Lea,

Maran, Beane, Rib, Stort, Colne, Ver, and New River. By diligent manuring, for which the proximity of Lon-don affords abundant facilities, the soil of H., though not

oon anorus anomant racinities, ine son of M., though not naturally fertile, has been brought to a considerable degree of productiveness. Pop. (1881) 202,990.
LERFFORD, a town of England, cap. of above co., on the Lea, 21 m. N. of London. Manuf. Flour and malt. The castle served as a place of imprisonment for David, king of Scotland, and John the Good, king of France. Page 7 2005.

1,200.

Hertford, in North Carolina, a N.E. co., adjoining Virginia; area, about 820 sq. m. Rivers. Blackwater and Moherrin rivers, which unite in this co. to form the Chowan River. Surface, generally level; soil, fertile. Cap. Winton.

-A post-village, cap. of Perquimans co., on the Perquimans River, abt. 12 m. from its mouth, and abt. 154 m.

—A post-village, cap. of Perquimans co., on the Perquimans River, abt. 12 m. from its mouth, and abt. 154 m. R. of Raleigh.

Her'thm, Arm'ha, Aon'ha, Eon'ha. (Myth) A chief divinity of the ancient German and Scandinavian nations. She was worshipped under a variety of names, of which the chief were analogous to those of Terra, Rhea, Cybele, and Ops among the Greeks and Romans. Her'all, n. pl. (Hist.) This Teutonic tribe, from the coast of the Baltic, descended the Danube to the Black Sea, sailed through the Hellespont in 262, when with other Gothic tribes, they assalled the cities of Greec, burning, among others, the famous temple of the goddess Diana at Ephesus. They were met near Athens by Dexippus, who routed them in 267. They again wandered northward, invaded Italy, and overthrew the W. empire in 476. The Longobardi almost destroyed them in 512, and their name is mentioned for the last time in history at the defeat and death of Teias by Narses, in 553.

Hers, Hisra, a German composer and pianist, a. In Vienna, 1806. His numerous productions are remarkable for elegance; as a pianist he enjoyed great popularity. In 1846-7 he made a professional visit to the U. S.

Hersegovima, (Asirti-s-po-ce/na), or Harsky, (Asiri-seck.) a former province of the Ottoman Empire, nominally forming (with the exception of Castel-nuova, and some adjoining districts) a part of the eyalet or pashalic of Bosnia. H. was bounded N. by Croatis. S. by Montenegro, E. by Bosnia, and on the W. by Dalmatia. The principal cities are Frebigne (former cap.), and Mostar. Its political and ethnographical character coincide with those of Bosnia (g. v.), though it differs in physical character. H. was occupied in 1878 under the Berlin treaty, and the government has since been administered by the Austro-Hungarian monarchy. Asarate.

those of Bosnia (q. v.), though it differs in physical character. H. was occupied in 1878 under the Berlin treaty, and the government has since been administered by the Austro-Hungarian monarchy. Area, 3,616 eq m. Pop. (1887) about 200,000. See Austria.

Hesdim, (hes'doing.) a fortified town of France, dept. Pas-de-Calaia, 16 m. St. of Montreuil; pop. 4,000.

Hesh'bom. (Script.) A celebrated city of the Amorites, 20 m. E. of the mouth of the Jordan, (Josh. iii. 10; xiii. 11.) It was given to Reuben; but was afterwards transferred to Gud, and then to the Levites. It had been conquered from the Moabites by Sihon, and became his capital; and was taken by the Israelites a little before the ten tribes were transplanted into the country beyond the Euphrates, the Moabites recovered it, (Isaiah xv. 4.) Its ruins are now called Hesban, and cover the sides of a hill 7 m. N. of Medeba.

Hesh'bom, in Prunsylvania, a P. O. of Indiana co.

He'shod, one of the earliest Greek poets, who is usually supposed to have lived in the 8th cent., s. c. He was a native of Ascra, in Bosotia, but almost nothing is known of his life. A family dispute drove him from Ascra, and he settled at Orchomenos. The works attributed to him are the poems entitled, Works and Days, Theogony, Shield of Hercules, and the lost Calalogue of Women. The poetry of the Works and Days is of a homely and didactic character, dealing with the practical interests of common life. It is "a faithful transcript," says Gottfried Müller, "of the whole condition of Besotian life." The Theogony, however, is of a different character, being an attempt to present a systematic view of the origin and powers of the gods, and of the order of nature. It is of great importance for the history of the religion of the Greeks.

Hesle'ne. (Myth.) A daughter of Laomedon, king of Troy, and sister of Friam. Neptune, in his anger against

Greeks.

Heslo'ne. (Myth.) A daughter of Laomedon, king of Troy, and sister of Priam. Neptune, in his anger against her father for having failed in a promise towards him, sent a monster to ravage his country. The oracle consigned her, as an explatory victim, to it; Hercules delivered her as she was about to be devoured by the monster; but not obtaining the reward promised by her father, he carried her off, and gave her in marriage to his friend Telamon. The abduction of H. became the Trojan pretext for the carrying off of Helen by Paris.

Hes'ttaney, n. [Lat. hexitantia.] A hesitating; a doubting; a pansing to consider; dubiousness; suepress.

Some of them reasoned without doubt or hesitancy." Alsorbery.

"Some of them reasoned without doubt or hesitance Vacillation of manner; indecision of thought or action;

"Just hint a fault, and Accidente diality."
Digitized by

Mce'itating, p. a. Doubting; pausing; stammering.

Mce'itatingly, adv. With hesistation or doubt.

Mceitation, n. [Fr. Adviation, from L. Lat. hesitatio.]

Act of hesitating; a pausing or delay in forming an opinion or commencing action; doubt. — A stopping in speech; intermission between words; stammering.

"Many clergymen are unable to go on without perpetual heeltd sts." — Swift.

Hes'per, Hes'perus, n. [Lat. hesperus; Gr. hesperus.] The evening star.
Hes'pere, in lovac, a post-village and township of Winneshiek co., abt. 14 m. N.E. of Decorah; pop. of township k. co., abt. 14 m. N.E. of Decorah; ship 1.010.

abip 1,010.
Mesperan'tha, n. (Bot.) A genus of herbaceous plants, order Iridacez, the species of which are commonly called Evening-Rowers, in reference to the time

Hes'se-Darm stadt, or the Grand-Duchy of Hesse, a state of S. Germany forming part of the German Empire, consisting of the provs. of Starkenburg and Rhenish Hesse, separated from each other by the Rhine, and bounded N. by the Prussian prov. Hesses-Nassau, E. Bevaria, S. Baden, and W. Rhenish Bavaria and Prussia. Area, 2,695 sq. m. Gen. Decc. The surface of H.-D. is very diversified, consisting, for the most part, of a level and very fertile plain; the E. part of Starkenburg, however, is occupied by the hilly and richly-wooded tract of the Odenwald. Kivers. The Khine, Main, Setz, Nahe, &c. Clim. Healthy. Soil. Highly productive, and especially adapted to agriculture. Prod. Cereals, wines, fruits, rape, hemp, flax, tobacco, timber, &c. Cattle-breeding is conducted on an extensive scale. Min. The working of salt, copper, and iron mines is an important feature of industrial economy; building-stone, elates, marble, gypsum, and potter's clay form, also, important mineral products. Manuf. Damask, linens, silks, tobacco, earthenware, and chemicals. Gott. A limited monarchy, hereditary in the male line, whose head bears the title of grand-duke. This state may, however, be considered as possessing a mere nominal independence, it being, in all essential respects, entirely under Prussian control.



tablished in the 15th century, in some of the Greek monasteries of Mount Athos. These Quietists pretended to have attained a perfect interior life of devotional repose by intense contemplation. One of their maxims, apparently derived from some of the strange practices of the Indian ascetics, directs the disciple to "raise his spirit above all vain and transient things, repose his head on his breast, and turn his eyes with his whole power of meditation upon his navel." Hence, these visionaries derived the nickname of Omphalopschoi (Cantacuzenus, ii. 38), or Umbilicarii; they were also termed Thaborites, from their notion respecting a divine light inhabiting the heart of the devotee. light inhabiting the heart of the devotee.

(Cantacusents, ii. 38), or Uniolitearis; they were also termed Thaborites, from their notion respecting a divine light inhabiting the heart of the devotee.

Hetse'ria, n. [Gr. hetaireia, companionship.] (Hist.) A word frequently used by classical writers to signify an association of any kind; thus the fraternities of the early Christians are called Hetserise. In modern times two celebrated associations among the Greeks have assumed the name. The first was the Hetseria of the Philomusoi, or Friends of the Muses—a society formed for the purposes of education, founded (it is said) by Capo d'Istrias, about 1814; it established schools at Athens and elsewhere, and numbered at one time 80,000 associates. It was dissolved in 1821; but renewed in 1824, when Athens was in the hands of the Greeks. The more famons political Hetseria owes its foundation to the celebrated Rigas, who died in 1798. It was renewed abt. 1816, extended its ramifications through all Greece, and produced the Greek revolution, begun by Ypsilanti in 1821. Hetch'el. v. a. See Hatchell.
Heteros. [Gr. heteros, the other, one of two.] As a Greek prefix, or in composition, this term usually indicates difference;—used antagonistically to the prefix homo, denoting resemblance.
Heteroceph'slouns, a. [Gr. heteros, and kephale, a lead.] [dot.] Having male and femnels flower-leads in the same individual.

Heterocepratic, (hetero-ser'kal) a. [Gr. heteros, and kerkos, the tail.] (lehth.) An epithet applied to fishes which have the upper fork of the tail longer than the lower, as in the shark and sturgeon.

Heterocepratice, n. [Fr. helderoclite; Gr. heterokitas—heteros, and chroma, color.] [Gst.) Applied to a flower-head, when the florets of the centre or disc are different in color from those of the circumference.

Het'eroclite, n. [Fr. helderoclite; Gr. heterokitas—heteros, and chroma, color.] [Gst.) Applied to a flower-head, when the florets of the centre or disc are different in color from those of the circumference.

Heteroclite, n. [Fr. helderoclite; Gr. he

orms.

(Gram.) A word which is irregular or anomalous.

Het'eroclitie. Heteroclit'ic. Heteroclit'iceal.

a. Irregular; anomalous; deviating from ordinary forms or rules; abnormal; as, "heteroclitical sins." Browne

Het'ercelin, n. (Min.) A brownish-black mineral, consisting mainly of binoxide of manganese, a variety

consisting mainty of binosine of manganese, a reacty of Bauvirt, q. v.

Heterodae'tyle, a. (Zoöl.) Having the toes irregular, either as to number of formation.

Het'erodae, a. [Fr. hdérodae; Gr. heteros, and doza, a notion, an opinion, from dokeō, to think.] Holding opinions different from those which are established, or an accurate. are prevalent.
(Eccl.) Said

are prevalent.
(£cd.) Said of persons holding opinions repugnant to the doctrines of the Scripture, or contrary to those of an established Church; heretical; contrary to the faith and doctrines of the Scriptures; autagonistic to the doctrines or tenets of any established Church; — opposed to orthodox.

Het'erodoxiy, adv. In a heterodox manner. Het'erodoxness, n. State or condition of being heterodox.

Het'erodoxy, n. [Fr. htterodoxie.] Au opinion or doctrine different from or contrary to the doctrines of the Scriptures, or opposed to those of an established

the Scriptures, or opposite the Scriptures, or opposite the series, a. (Gr. heteros, other, and games, marriage.) (Bot.) Applied to grasses, when the arrangement of the sexes is different in different spikelets from the same root, as in Andropagon; in Composite plants, where the florets are of different sexes in the same down head.

Heterogan'gliate, a. [Gr. heteros, and gagglion, gauglion.] (Physiol.) Having the gauglionic nervous system, and the gauglions, often unsymmetrically scat-

Heterogene'ity, n. [Fr. hétérogénéité.] Hetero-

Heterogene asy, geneousness.

Heteroge'neous, Heteroge'neal, a. [Gr. htterog, and genos, race, descent, sort, kind. See GRUS.] Of a different kind or nature; unlike or dissimilar in kind; — used in opposition to homogeneous; as, heterogeneous

Heterogeneous attraction. (Chem.) See APPINITY.
Heterogeneous quantities. (Math.) Quantities incapable
of being compared together in respect of magnitude,
as lines and surfaces, surfaces and solida, &c.
Heteroge'neously, adv. In an heterogeneous man-

ner.

Heteroge'neousness, n. State or quality of being heterogeneous; difference of nature and quality; dissimilitude or contrariety in kind.

Heterogen'esis, n. [Gr. heteros, and genesis, birth.] (Prasiol.) A term defined by Pouchet as noting the production of a new animal without the intervention of parents, all its primordial elements being drawn from surrounding nature. It is analogous to spontaneous generation. generation. Digitized by GOGIC

Heterog'eny, s. [Gr. heteros, other, and gence, race.]
The production of young in different kinds.
Heterograph'ic, a. Representing different sounds
in different words with the same letters.

In dinerent words with the same letters.

Heterog'raphy, n. [Gr. heteros, other, and graphê, writing.] That method of spelling in which the same letters represent different sounds in different words, as in the ordinary English orthography.

Heterol'ogous, a. [Gr. heteros, and logos, proportion.] Having different constituent elements or parts:

having unequal proportions;—in contradistinction to

H. series. (Chem.) Those series whose numbers man fest a similarity of origin from homologues, but which differ considerably in their properties. See Homolo-GOUS SERIES.

Heterom'erous, n. pl. [Gr. heteros, and meros, a leg.] (Zoil.) A name given to Coleopterous insects which have five joints in the tarsus of the first and second pair of legs, and only four joints in the tarsus of

Heteromor'phite, n. ( Min.) Same as JAMESONITE, q. v Heteromor'phite, n. (Min.) Same as JAMESONTE, q. v. Heteromor'phous, a. (Gr. heterot, and morphe, form.) (200.) Of an irregular or singular form; having two or more shapes.

Heterotiu'siam, Heterotiu'sious, a. (Gr. heterotiu'sious, a.) (Gr. heterotiu'siam, Heterotiu'sious, a.) (Gr. heterotiu'sious) or essential qualities.

Heteropath'ic, a. (Gr. heteropathës.) Same as Allopathic q. n.

Heteropath'le, a. [Gr. heteropath's.] Same as Allo-PATHIC, q. v.

Heteroph'yHous, a. [Gr. heteros, and phyllon, leaf.] (Bol.) Applied to plants which have two different kinds of leaves on the same stem.

Het'eropod, n. One of the Heteropoda, q. v.

Heterop'oda, n. pl. [Gr. heteros, and pous, foot.] (Zoil.) An order of molluscous animals comprehending those which have the foot compressed, and in the form of a thin vertical fin, as in the Carinaria.

Heterop'odous, a. Of, relating or pertaining to, the heteropods.

the heteropois.

Heteropois.

Heteropois.

A section of Hemipterans comprehending all the Bugs, distinguished by having the hemelytra terminating abruptly by a membranous appendage.

Heteropoises, n. sing. [Gr. heteros, and Eng. optics.]

Faise optics.

Heteroseciam, (heter-dayyan,) a. (Geog.) Of, relating or pertaining to, a portion of the earth's surface, considered relatively to a certain other portion, so situated that the shadows of two objects, one being in the former, and the other in the latter, fall in opposite discrete. rections.

rections.

\*\*n. [Gr. heteroskies — heteros, and okia, shadow.] (Geog.)

An epithet applied by the ancient geographers to the inhabitants of the two temperate zones, because their shadows at mid-day are always projected in opposite directions in respect to each other; in one case to the north, and in the other to the south.

north, and in the other to the south.

Het'erosite, s. (Min.) A phosphate of the oxides of iron and manganese; a variety of Triphtlitz, q. v. Heteros'trophe, a. [See below.] (Conch.) Reversed; a term applied to shells whose spires turn in a contrary direction to the usual way.

Heterot'ropal, Heterot'ropous, a. [Or. hoteros, and trepō, I turn.] (Bot.) A term applied to the embryo of a seed when the former lies across the latter, that is to say, neither pointing to its base nor apex.

Heth, in Indicasa, a township of Harrison co. Pop. (1897) about 1,810.

Het'man, n; pl. Hetmans. [Pol.; Russ. ateman, from Ger. hasphrauss, headman, capitalu.] The title siven to

(1607) about 1,610. HETMAN, n; pl. HETMANS. [Pol.; Russ. Ger. Asuptmans, headman, captain.] The the commander-in-chief of the Cossacks. The title given to "The Ukraine's Hetman, calm and bold. '—Byr

Het'ricks, in Posssylcosia, a village of York co.
Heu'chelheim, a town of Prussia, formerly in prov.
Obor-Hessen, Hesse-Dannstadt. Pop. (1897) about 1.420.
Heuche'ra, a. [After J. H. Hesseker, a German botanist.] (Bot.) A genus of herbaceous plants, order Szerbragacce. H. Americana, the Alum-root, is a neat plant, nist.] (1801.) A genus of herbaceous plants, order Sazi-fragaces. H. Americana, the Alum-root, is a neat plant, 2-4 feet high, found in all the States; leaves roundish, panicle elongated, calyx campanulated and more conspicuous than the purplish-white petals. Its root is astringent, hence its common name.

Hue-landite, a. (Mis.) A mineral occuring in right rhomboldal prisms or their modifications. Color, white, sometimes red. gray or however, transparent. There's the same times are desired to the same times and the same times and the same times are same times.

rhomboidal prisms or their modifications. Color, white, sometimes red, gray or brown; transparent. Found in Chester, Mass., Bergen Hill, N. J., &c. Sp. gr. 22. Comp. Silica 59:1, alumina 16:9, lime 92, water 14:8.

Hens'ler, in Indiana, a post-office of Perry co.

Hen'veltom, in New Fork, a post-office of St. Lawrence co., on the Oswegatchie River, abt. 5 m. 8.E. of Ogdensburg.

Ogdensourg.

He'veene, n. (Chem.) A heavy oil obtained by the distillation of gutta-percha.

He'ves, a town of Hungary, 60 m. E.N.E. of Perth; pop.

6.100.

Hew, (hū,) v. a. (imp. Hewed or Hewn.) [A. S. heavan, geheavan; D. houwen; Ger. hauen; Sansk. cho, to cut, to cut down.] To cut, as with an axe, or other edged instrument; — frequently preceding down, or off. "Yet shall the axe of justice hew him down." (Sidney.) — To shape by cutting with a sharp tool or instrument; — often before out; as, "Thou hast hew out a sepulchre here" (Isaiah xxii.); — hence, to form laboriously.

"The gate New'd by Mars himself, from Indian quarries of

—To chop; to hack; to cut to pieces.

Hewed,  $(h\bar{u}d_i)$  p. a. Cut and made smooth or even chopped; hacked; shaped by cutting, or by a chisel.

Hewer, n. One who hews wood or stone.

Hewn, p. a. The same as HEWED, q. v.

Hewn Stone. (Masonry.) That kind of stone which is employed after the whole face has been worked; it differs from block stone in the superior quality of the work upon the surface.

Hexacapysular, a. (Bot.) Possessing six capsules.

Hexacysular, a. (Bot.) Possessing six capsules.

Hexacapysular, a. (Bot.) Possessing six capsules.

Hexacapysular, a. (Bot.) Posses work upon the surface. Met. Possessing six capsules. Hexacap'sullar, a. (Bot.) Possessing six capsules. Hexacab'sullar, a. [Gr. hex. and chordė.] (Mus.) A progression of six notes, to which Guido attached the syllables ut, re, wi, fa, sol, la. The H. is called a sixth; and is twofold, greater and less. The former is composed of two greater, two less tones, and one greater semitone, making five intervals; the latter, of two greater tones, one lesser, and two greater semitones. Hexadac'tylous, a. [Gr. hexaduktylos.) (Zoòl.) Having six fingers or toes.
Hex'ade, n. [Gr. hexados; Lat. hexadis.] A series or succession of six numbers.
Hex'agon, n. [Gr. hex, six, and gonia, an angle; Fr.

Hex'ade, n. [Gr. hexados; Lat. hexadus.] A series or succession of six numbers.

Hex'agon, n. [Gr. hex, six, and gonia, an angle; Fr. hexagone.] (Geom.) A plane figure bounded by six straight lines. When these are equal, the H is regular. The side of a regular H. is equal to the radius of its circumscribing circle, a property which has numerous useful applications. The area is equal to the square of its sides multiplied into the constant number 2\*58076; that is, into three times half the tangent of 60°.

Hexagonal Numbers. (Arith.) Figurate numbers of the second order and fourth class; they represent the successive sums of an arithmetical series whose first term is 1, and common difference 4. The number, therefore, is n (2 m—1).

Hexagonally, adv. In the form of an hexagon.

Hexagonally, adv. In the form of an hexagon.

Hexagonally, a. Having the figure of an hexahedron; cubic.

cubic

cubic.

Hexahe'drom, n. (Or. hez, and hedra, base; Fr. hezadre.] (Geom.) A solid bounded by six planes. A parallelopiped is an H. whose opposite faces are parallel. The cube or regular hesahedrom is one of the five regular solids, having six equal square faces, twelve equal edges, and eight solid angles, each formed by the meeting of three plane right angles.

Hexahemi'erom, n. [Fr.; Gr. hez, and hemera, day.] A term or duration of six days.—The history of the six days' labor of creation, as described in the first chapter of Genesia.

of Genesia.

Hexame erous, a. [Gr. hex, and meros, part.] (Bot.)

In sixths, or sixth paris.

Hexame eter, n. [Fr. hexametre; Gr. hex, and metron,
a measure, a verse, a metrical line.] (Fros.) The commonest and most important form of dactylic verse used
among the ancient Greeks and Romans. It was
termed hexameter in consequence of its consisting of six
feet, either dactyls or spondees, which could be used indifferently throughout the verse, with two exceptions:
that the last foot must be invariably a spondee, and the
last but one a dactyl. In a few rare cases, either to last but one a dactyl. In a few rare cases, either to vary the rhythm, or to produce some special effect, a spondee is introduced in the fifth foot, when the line is denominated a sponduse line.

Hexamet'ric, Hexamet'rical, a. Consisting of

six metrical fe-

Hexam'etrist, n. A writer in hexameters.

Hexam'dria, n. [Gr. hex, and andros, male; Fr. hexandrie.] (Bot.) A Linnean class of plants having six stamens.

Hexan'drian, Hexan'drous, a. (Bot.) Po ing six stamens

ing six stamens.

Hexan'gular, a. [Gr. hex, and Eng. angular.] Presenting six angles or corners.

Hex'aped, a. Having six feet.

Hexapet'alous, a. [Gr. hex, and petalon, leaf.] (Bot.)

Having six petals.

Hexaph'yllous, a. [Gr. hex, and phyllon.] (Bot.)

Six-icaved.

\*\*Hex'apla, n. [Gr.] (Bibliog.) The combination of six versions of the Old Testament by Origen is so called, viz., the Septuagint, those of Aquila, Theodotion, Symmachus; one found at Jericho, and another at Nicopolis. Hex'aplar, a. Sextuple. Hex'apod, a. [Gr. hex, and pous, podos, a foot.] Six

Hex'spod, a. [Gr. hez, and pous, podos, a foot.] Sixfooted.

—n. (Zotl.) An animal with six legs, such as a true insect.

Hexap'terous, a. [Gr. hez, and pteron, wing.] Possessing six wing-like processes.

Hexastich, Hexastichom, (-stik, hez-as'ti-kon, n. [Gr. hezastichos.] (Lti.) A poem comprising six verses.

Hex'sastyle, n. [Gr. hezastylos.] (Arch.) A triangle, or building, having six columns in front.

Hex'ham, a town of England, in Northumberland co., on the Tyne, 19 m. W. of Newcastle; pop. 6,500.

Hexoctahe'drom, n. [Gr. hez, and Eng. octahedron.] (Grom.) A solid presenting 48 equal triangular faces.

Hexyl, (heks'il.) n. [Gr. hez, six.] (Chom.) A liquid of agreeable aromatic odor, boiling at 395°, obtained from cenanthytate of potash by voltaic decomposition. It is the sixth of the series of the hydrocarbon radicate of the alcohols, and is also called caproyl.

Hey, (hdi.) interj. [Probably from high.] An exclanation of joy or mutual exhortation; — contrary to the Lat. hei.

Lat. hei.

m key for praise and panegyric! "-P

Hey'-day, interj. [For high-day.] An expression of frolic or exultation, and, sometimes, of wonder. "Thou spend'st such hey-day wit in praising him."-Shake

A frolic; wildness; exuberance of life.

"At your age the hey-day in the blood is tame." -Shake.

Heyst-op-dem-berg, (histerp-den-bairg,) a town of Holland, on the Great Nethe, 17 m. S.E. of Antwerp; pop. 7,800.

a chasm.—(Bibliography.) A chasm or blank space: le in a manuscript, as from a pussage erased, &c.

(Gram. and Fros.) The occurrence of a final wows followed immediately by the initial wowel of another word without the suppression of either by even an approphe. In the French language, the H is most c.r. fully avoided, but in the English not so much attention paid to it, although it is considered a blemish by the most cereful writers.

fully avoided, but in the English not so much attention paid to it, although it is considered a blemish by the more careful writers.

Hiawas'see, in Georgia, a post-vill., cap. of Towns con the Hiawassee, in Georgia, N. Sim. N. by W. of Athem Hiawassee, in Georgia, N. Carolina, and Tennesse, small river rising in Union co. of the former state, as flowing N.W. into N. Carolina, traverses Cherokee con thence into Polk co. of Tennessee, it continues its tortuous N.W. course between Bradley and McMinn coalentering the Tennessee River in Maigs co.

Hiawa'tha, in Kassea, a fine city, cap. of Brown co. on the Mo. Pac. and St. J. & G. I. R. Ra, 32 m. N. W. of Atchison. Pop. (1885) 3,802.

Hibbard, in Micliana, a post-office of Marshall co.

Hibbard, in Tennessee, a post-office of Carroll co.

Hibbard, in Josea, a post-office of Appaneouse co.

Hibbaryille, in Josea, a post-office of Appaneouse co.

Hibbaryille, in Josea, a post-village of Appaneouse co.

Hi

wintry.

Hi'bernate, Hy'bernate, v. a. To winter; to pass the winter season in a domiciled state, as beasts. page the birds, &c.

pass the winter season in a domiciled state, as beasta, birds, &c.

Hi'bermation, Hy'bermation, a. The act of hibernating, or of passing the winter in a domicile or place of seclusion.

(2001.) That peculiar condition of sleep which certain animals, chiefly cheiroptera and rodentia, pass the winter season. The tata, the hedgehog and the dormouse are the most striking examples of this phenomenon.

Hibermia, the Roman name for Irakany (q. r.).

Hibermia, in Missouri, a village of Callaway co., on the Missouri river, opposite Jefferson City.

Hibermia, in Missouri, a village of Callaway co., on Oentral B. R. of N. J. Pop. (1837) about 1,420.

Hibermian, in New Jersey, a post-village of Morris co., on Central B. R. of N. J. Pop. (1837) about 1,420.

Hibermian, from Lat. Hibermia.] (Gong.) Pertaining or relating to Hibermia, or the modern Ireland; as, the Hibermian brogue.

—n. A native or inhabitant of Ireland.

Hibermo-Cel'tie, n. The branch of the Celtic language spoken by the people of Ireland.

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Hibermo-Cel'tie, n. The branch of the Celtic language spoken by the people of Ireland. binus yields the fibre known as suspace, or brown Indian hemp, which is used in India as a substitute for true hemp. It is sometimes confounded with sunn hemp, which is the produce of a leguminous plant, (see Capatarana, H. arborneus, a native of the W. Indies, is also remarkable for the tenacity of its inner bark, and some authors declare that the whips formerly used by the slave-drivers were manufactured from its fibres. The petals of a Chinese species, H. rosaniersis, the Chinamer astringent, and are used by the "Calestial." to stave-drivers were manufactured from its fibres. The petals of a Chinese species, H. rosasinersis, the Chinese rose are astringent, and are used by the "Celestials" to blacken their eyebrows and the leather of their shoes. Various other species of H. yield valuable fibres useful for textile fabrics, or for paper.

Hiceius Doccius, (hik-shi-us ddi/shi-us.) [A corruption from the Lat. hie est doctus, this is a learned man.] A cant phrase for a juggler, or one who plays tricks of legerdemain.

" And hiccia

"And Meceius deccius played in all."—Huddhrus.

Hicacough, (htt/kup.), n. (Sometimes written Hiccur.)
[Hic and cough; Dan. hithe; formed from the sound.]
(Mod.) A spasmodic affection of the diaphragm. in which the muscles of respiration and of the larynx are more or less involved. H. may occur from eating too hastily after a lengthened fast, from drinking cold water, or from any causes affecting the stomach. As a symptom towards the end of fever, or in gangree, it is always regarded as the near harbinger of death. The treatment of H., when a sudden ejaculation or a direction of the patient's mind fails to check it, is to give 30 drops of sal-volatile and 15 drops of ether in a wineglass of camphor-water, or, in severe cases, 30 drops of laudanum. ss played in all."udanum.

Inudanum.

Hiek'mam, in Kessucky, a S.W. county, adoining Misissippi and Tennessee; crea, about 240 aq. m. Risers.

Mississippi and several of its tributaries. Surface, level;
soil, fertile. Cap. Clinton. Pop. (1890) 11,657.

—A post-town, cap. of Fulton co., on the Mississippi river.

A post-town, cap. of Fulton co., on the Mississippi rive and the Nash., Chat. & St. Louis R. R., 36 m. belot Cairo, Ill. Pop. (1897) about 1,700.

 $\mathbf{U}\mathbf{U}$ 

1507

Hick'man, in Tennessee, a W. central co.; area, about 648 sq. m. Ricers. Duck river, and numerous smaller streams. Surface, hilly; soil, fertile. Min. Iron ore (Ap. Centerville. Pop. (1890) 14,499.

Hick'man Creek, in Kentucky, enters the Kentucky river through Lessensing or the contract of the contra

river through Jessamine co.

Hick'man's Bend, in Arkansas, a village of Missis-

sippi county.

Hick'ory, n. (Bot.) The common name of the genus of trees Carya, order Juginndacez. The hickories are exclusively North American. They are large and beautiful trees, attaining a height of 70 or 80 feet, with pinexclusively North American.

iful trees, attaining a height of 70 or 80 feet, with pinnate leaves. The timber of all of them is very heavy,
strong, and tenacious, but decays speedily when exposed
to heat and moisture, and is said to be peculiarly liable
to injury from worms. Great quantities of H. are used
to make hoops for casks. It is also much used for handspikes. Musket-stocks, shafts of carriages, handles of
whips, large screws, &c., are made of it. It is greatly spikes. Musket-stocks, shalls of carriages, nancies of white, large screws, &c., are made of it. It is greatly esteemed for fuel. The nuts of some of the species are excellent for eating, with sweet and agreeable flavor.—C. alba, the shellbork or shagbark H. (Fig. 1286), so called from the shaggy outer bark peeling off in long, narrow plates, yields the common hickory said of the northern parts of the U.S. It abounds on Lake Erie, and in



Fig. 1286. THE SHELLBARK HICKORY. (Carve alba.)

some parts of New Jersey and Pennsylvania. The trunk is slender. The leaves are often 20 inches long. some parts of New Jersey and Pennsylvania. The trunk is slender. The leaves are often 20 inches long. The nuts are in considerable request, and are sometimes exported. The shell is thin but hard, the kernel sweet. An oil, which is used by the Indians as an article of food, is obtained from it by pounding and boiling.—C. succas, the thick shelbark H., a very similar tree, abounding in the fertile valleys of the Allegheny Mountains, has a nut with a thick, yellowish shell, which is often brought to market in America under the names of "Springfield nut" and "Gloucester nut."—C. sienglornist yields the Fecan sud, the most esteemed for its flavor. It differs from the others in the nut having no partitions within the shell—Other species yield the mocker sud, pig sud, and bitter sud.

Hickoffy, in Arkansas, a township of Carroll co.

Hickoffy, in Missoir, a post-village of Lake co., about 50 m. N. N. W. of Chicago.

—A township of Schuyler co.

Hickoffy, in Missoir, a S. W. central co.; area, about 416 sq. miles. Rivers. Little Niangua and Pomme de Terre rivers, and Lindley's and Warblow creeks. Swrface, uneven; soil, fertile. Cap. Hermitage. Pop. (1890) 9,463.

Hickoffy, in Ohio, a village of Carroll co., about 120 m. E. N. E. of Columbus.

m. E. N. E. of Columbus.

A pust-office of Mahoning co.

-A post-office of Mahoning co.

Hickory, in Pensa, a township of Lawrence co.

-A township of Mercer co.

-A township of Forest co.

-A post-village of Washington co.

Hickory Barren, in Missouri, a post-village of Greene co, about 120 m. W. of Jefferson City.

Hickory Branch, in Indiana, a post-village of Pensa co.

Hickory Corners, in Michigan, a post-village of

Hickory Corners, in New York, a post-office of

Hickory Corners, in New York, a post-office of Nisgara co.

Hickory Corners, in Pennsylvania, a post-village of Northumberland co.

Hickory Creek, in Illinoia, a village of Fayette co., about 80 m. 8.3.E. of Springfield.

Hickory Creek, in Missouri, a village of Audrain co., about 60 m. N.E. of Jefferson City.

Hickory Creek, in Taxas, enters the Rio Llano in Gilleppie co.

—A village of Hunt co.

Hickory Flat, in Alebama, a post-village of Cham-

Hickory Flat, in Alabama, a post-village of Cham-

bers co.

Rickory Flat, in Georgia, a post-village of Cherokee

on, about 125 m. N.W. of Milledgeville.

Hickory Flat, in Kentucky, a post-village of Benlickory Flat, in Missiosppi, a post-village of Ben-

Hickory Fork, in Virginia, a P. O. of Gloucester co. Hickory Grove, in Georgia, a post-village of Craw-ford co., about 37 m. W. of Macon. Hickory Grove, in Indiana, a township of Benton

county.

Hickory Greve, in Ioua, a village of Delaware co.

A township of Jasper co.

A township of Scott co.

HIDE

Hickory Grove, in Messuri, a twp. of Warren co. Hickory Grove, in Messuri, a twp. of Warren co. Hickory Grove, in Messuri, a village of York co. The post-office is Hickory.

Hickory Hill, in Hissoir, a post-office of Marion co. about 44 m. 8.E. by 8. of Vandalia.

— A township of Wayne co.

Hickory Hill, in Messuri, a post-village of Cole co., about 17 m. 8.W. of Jefferson City.

Hickory Hill, in Posso, a post-village of Chester co. Hickory Hill, in South Carolina, a village of Hampton co.

ton co.

Hickory Hill, in Texas, a village of Case co.

Hickory Level, in Georgia, a post-village of Carroll co, about 150 m. W.N.W. of Milledgeville.

Hickory Plains, in Arkaneas, a post-village of

Hickory Planes, in Missis, a village of Woodford co. Hickory Point, in Illisois, a village of Woodford co. Hickory Point, in Isdiana, a village of Porter co. Hickory Port, in Missouri, a village of Grundy co. Hickory Ridge, in Arkansas, a twp. of Phillips co. Hickory Ridge, in Illisois, a P. O. of Hancock co. Hickory Ridge, in Tennesses, a P. O. of Jefferson co. Hickory Station, in Arkansas, a post-office of Montagery Co.

gomery co.

Hickory Valley, in Arkaneas, a post-village of Inde-

pendence co.

Hickory Valley, in Tennessee, a post-town of Hardeman co., on the Illinois Central R. R.

Hickory Withe, in Sumessee, a post-village of

Hickory Withe, in Somessee, a post-village of Fayette co.

Hicks, Elias, an eminent minister of the religious Society of Friends, born on Long Island, in 1748. The preaching of H., and the manner of his treatment by a portion of Friends, were among the principal causes of the division of that society. Died in 1830.

Hicks, in New York, a post-village of Chemung co. Pop. (1897) about 500.

Hicks Coprimers, a village of Grenville co., prov. of Ontario, about 8 m. S. of Kemptville.

Hicks Ford, in Virginia, a village of Greenville co., on the Meherrin river, about 62 m. S. of Richmond.

Hicks Mill, in Maryland, a post-village of Prince George co.

HIEEE MIII., in Maryland, a post-village of Prince George co.

Hicks Store, in Virginia, a post-village of Case co.

Hicks Store, in Virginia, a post-village of Queens co.,

66 m. E. of Brooklyn. Pop. (1897) about 2,100.

Hicksville, in Ohio, a post-village and township of

Defiance co., on B. & O. E. R., 20 m. W. of Defiance.

Pop. (1897) about 2,250.

Hicks Wharf, in Virginia, a post-village of Mathews

county.

county.

wall, Hick'way, a. [Old Eng.] (Ornith.) A small wood-pecker, Picus minor.

Hid, Hidden (hid'n), pp. of HIDE (q.v.). Concealed;

"The several parts lay hidden in the piece."-Dryden Secret: mysterious: not known.

"What I have hidden, hope thou not to know."

Hid'age, s. [From hide, an Old Eng. land measure.]
A tax formerly levied by the English monarch on every
hide of land.

hide of land.

Hidal'go, n. [Sp., corrupted from hijo de algo, son of somebody; Pg. fidalgo.] A Spanish nobleman of the lower class. The title, although frequently applied during the last century and Middle Ages, is now extinct.

Hidalgo, in Tezza, a S. county, adjoining Mexico; area, about 2,970 sq. m. Risers. Rio Grande and Olmos creek. Surface, mostly level; sod, fertile. Cop. Hidalgo.

v. (1890) 6,534.

Hid'dekel, one of the rivers of the Garden of Eden, believed to be the Tigris.

Hid'den, pp, and p. a. from kide. See Hids and Hid.

Hid'denly, adv. In a hidden, secret, or mysterious

manner.

Hide, v. a. (imp. HID; pp. HIDDEN, HID.) [A.S. Aydan D. hoeden, to guard, to watch; Goth. huotan; W. cuddiau, to cover, to conceal; allied to Gr. keutho, to cover closely; Sansk. chad, to cover.] To cover; to conceal to secrete; to withhold or withdraw from sight.

le stars! *kide* your diminished rays." -To withhold from knowledge; to keep secret; to screen
"Teach me... to Mide the fault I see."—Pops.

-To shelter; to protect; to keep in safety; as, to hide in

a place of security.

To hide the face, to discountenance; to withdraw grace

or favor.
"Thou dides hide the face, and I was trouble to overlook; To hide the face from, to overlook; to pass without censure.—To be displeased with; to exhibit severity to.

To hide one's self, to secure one's safety; to prevent

e. n. To be or to lie concealed or secreted; to withdraw

Bred to disguise, in public 'tis you hide."—P

Hide-ond-seek, a play among children, in which some hide that the others may find them.

Hide, v. a. To flog; to best; to whip; to flagellate; as, to hide a rowdy. (Used both in England and the U. States.)

Bilde, n. [A.S. hyde, from hydan; Du. huid; Ger. haut; Dan. and Icel. hud. See verb above.] That which covers and protects the flesh or the body of an animal; the skin

of an animal, either raw or dressed.

(Com.) The skin of some of the larger animals, which are specially adapted for the manufacture of leather, and

which are also a source of glue. The term is applied chiefly to those of cattle, the horse and the hippopotamus, and of the buffalo when intended for tanning. The skins of young cattle are distinguished as kips, and those of the deer, sheep, goat, seal, &c., even though in tended for leather, are called skins.

The human skin;—used in a contemptuous sense.

"Oh, tiger's heart, wrapt in a woman's hide."-Shake.

Hide, Hyde, n. [A.S. hyd.] An old English measure of land. Its contents are not quite certain, but are stated to have been 100 Norman, or 120 English acres. Hide-bound, a. Having the hide close;—applied to a horse or a cow when the skin sticks so closely to the ribs and back as not to be easily loosened or raised.

(Arboriculture.) A term applied to trees in which the bark does not swell freely in proportion to the growth the tree.

of the tree.

\*\*Mid'eouss, a. [Fr. hideux.] Frightful; terrible: horrible: ghastly; shocking to the eye.—Distressing or repugnant to the ear; discordant; provoking terror, dismay, or confusion; as, a hideous yell.— Hateful; detectable; locathoone.

\*\*Hid'eoussly, adv. In a manner to frighten; dreadfully; shockingly.

\*\*Hid'eoussless, n. Frightfulness to the eye; dreadfulness; horribleness.

Hid'er, n. One who hides, secretes, or conceals.

Hid'ing, n. Concealment; withdrawment; a with-

Hid ing-place, n. A secret place; a spot adapted

Hiding-place, n. A secret place; a spot adapted to concealment.

Hidrot'le, n. [Gr. hidrötos, sweat.] (Med.) A medicine to promote perspiration.

Hie, v. n. [A.S. higan, higian; Icel. hagga, to move.]

To hasten; to move or run with haste; to go in haste;

(Used principally in poetical composition.) to speed. "Hang up thy lute, and his thee to the sea."- Waller.

Hielmar, (hee'mar.) a lake of central Sweden, surrounded by the districts of Nykioping, Oorebro, and Westeraas; area, 40 m. in length, by an average of 8 m. in width. It communicates with Lake Malar by the Or, or Ratka

or Batea.

\*\*Hiel'mite, s. (Mis.) A black mineral from the Karafvet mine near Fahlun, Sweden. It is a stanno-tantatale of iron, uranum, and yttria, of complicated com-

tatale of iron, uranium, and yttria, of complicated com-position; gp. gr. 582.

Hiera cium, n. [Gr. hierakos, a hawk, — supposed to strengthen the vision of birds of prey.] (Bot.) The Hawk, weeds, a gen. of plants, ord. Asteracre. They are peren-nial herbs, with leaves alternate, entire or toothed; involucre more or less imbricated, ovoid, many-flowered; scales very unequal. H. Canadense, H. renosum, and H. paniculatum, are American species. H. murorum, the Golden-lungwort, or Wall-Hawk-weed, is a native of Europe.

Europe.

Hie'ra-ple'ra, n. [Gr. hieros, sacred, and pikros, bltter.] (&d.) The Holy Bitter, vulgarly called hickerypickery,—a very excellent old-fashioned tonic bitter,
made by mixing one part of powdered aloes with two
parts of canella albs.

Hierap'olis. [Gr., sacred city.] (Anc. Geog.) A city
of Phrygia, near the junction of the rivers Lycus and
Meander, celebrated for its warm springs, and its cave
Plutonium, from which arose a mephitic vapor which
was poisonous to all but the priests of Cybele. A Christian church was early established here, and St. Paul
mentions it, (Od. iv. 12, 13.) The city is now desolate, but
its ruins still exhibit many traces of its ancient splendor.—2. A city of Syris, called Bambyce by the early
natives, one of the chief seats of the worship of Astarte
or Ashtoreth.

Hierarchs, (Al'erdrk.) n. [Gr. hierarchès; Fr. hif-

or Asmoretti.

Hierarch, (hi'erärk.) n. [Gr. hierarchès; Fr. h.
rarque.] A ruler, or one who governs sacred things. "Angels, under their hierarche in orders bright."-Mil

"Angela, under their hierarche in orders bright."—Nilson.

Mierar'chail, a. Belonging to a hierarchy.

Mierar'chicail, a. Belonging to a hierarchy, or to sacred or ecclessationly government.

Mierarchys, An'd-rar-ke, a. [Gr. hieros, sacred, and archon, government.] (Eccl. Hist). Literally, H. means a holy government, and is used to signify either the constitution and government of the Christian Church, or ecclessatical polity, comprehending different orders of clergymen, and the government of the Church over the State. Taken in the forner sense, with reference to the State. State. Taken in the for ner sense, with reference to the internal government of the Church, the H. arese with the formation of the Christians on an independent estabishment; for, although presbyters, or elders, were placed at the head of the earliest congregations of Christians, yet their constitution, was essentially democratic,—each and all of the members having a share in the concerns of the whole society, and a vote in the election of elders, the members having a share in the concerns of the whole society, and a vote in the election of elders, of the whole society, and a vote in the election of elders, the exclusion of ranegudes, and the reception of proselytes. Afterwards, the government of the Church became more and more transferred into the hands of the elders; and in the 2d century, the bishops became chiefs, and took all authority in their own hands, although the elders were still possessed of some semblance of power. In the capitals of different provinces, the bishops were termed wetgenditions and were superior in office to the In the capitals of different provinces, the bishops were termed metropolitans, and were superior in office to the provincial bishops, and thus, gradually, an aristocratical M. was formed, and the "metropolitans" of Constantinople, Antioch, Alexandria, and Jorussiem were called "Patriarchs," and looked up to as the heads of the Church, under the sovereignty of the Pops.—According to Dionysius the Areopapite, H. also denotes a division of the angels which were divided into three of these separate constitutions. The first H<sub>s</sub> was composed of the heavily in argabins and hypomes; the according of flows in these cherubim, scraphim, and thrones; the second of dominions virtues, and powers; and the third, of principalities

emgels, and crchangels. Some of the Rabbins reckon 4, and others 10 hierarchies, or orders of angels.

Hierastic, (hierarchies, or priest.) Secondotal; pertaining to priests; priestly; consecrated to sacred uses;—especially applied to the emblematic character used by the Egyptian priests.—See Hisaccirpines.

Hierastic, in France. See Hisaccirpines.

Hierastic, or Hierastic, at tyrant of Syracuse, suoceeded his brother Gelon E. cf. 28. He carried on war for several years with Theron, tyrant of Agrigeutum, and his son and successor Thrasydeus, the latter of whom he defeated and got expelled. In 474 he gained, in conjunction with the Cameans, a great victory over the Etruscaus, whose naval power did not recover the blow. Hiero was a patron of scholars, and his court was made illustrious by the presence of Æschylus, Findar, Simonides, Kenophanes, and other distinguished Greeks. He was also frequently a successful competitor in the games at Olympia and Delphi. His government was very despotic, and was supported by mercenary guards and a spy-system. D. at Catania, s. c. 467.

Hisno II., king of Syracuse, was the son of Hierocles, said to be a descendant of Gelon. After distinguishing himself in the Sicilian war of Pyrrhus, he was chosen, in a. c. 275, general of the Syracusan army. He carried on war with the Mamertines, who had invaded the island and taken Messins, and in 270 was chosen king by the Syracusans. The Mamertines having obtained the alliance of Rome, Hiero in 261 allied himself with the Carthaginians, who had gained a footing in the Island, and thus began the first Punic war. Defeated by Appins Claudius in the following year, Hiero made peace with the Romans retained after their conquest of Sicily; avoided all parade of royalty; fostered commerce, and strengthened and beautifuled Syracuse. The mathematician Archimedes lived in his reign. Hiero D. B. C. 215, aged 92.

is extant, also fragments of the former. Lived in the 5th century.

Hieroe'racy, n. [Gr. hieros, and kratos, power.] Ecclesiastical government; hierarchy.

Hieroglyph, (hi'ero-glif,) n. [Fr. hieroglyphe; Gr. hieros, sacred, and glyphō, to hollow out, to engrave or carve.] Asacred sculptured or carved character or symbol.

Hieroglyph'ic, or Hieroglyph'ical, a. [Fr. hieroglyphainue.] Relating to hieroglyphie; emblematic expressive of some meaning hy characters, pictures, or furnes.

-Enigmatical; occult; obscure; as, hieroglyphical scrawl.

Hieroglyph'ically, adv. Emblematically; in an

-Enigmatical; occult; obscure; as, hieroglyphical scrawl. Hieroglyphicanner. Hieroglyphica, (hiero-gliftiks,) n. pl. A term generally applied to the representations of animals or other forms, used to express language, and more especially to those found sculptured on the monuments of Egypt. The ancient Egyptians appear to have used about 1,000 symbols, by means of which they were enabled to express themselves correctly and clearly. Among the ancient Greeks this mode of writing was called hieroglyphic, or hierographic; and its invention was attributed to Thoth, the Egyptian Hermes. In nearly all cases, hieroglyphics consist of representations of the sun, moon, and stars, the human form, animals, fishes, works of art, &c., which were cither engraved in reliefs sunk below the surface, or traced with a reed pen on slabs of stone, pieces of wood, or leaves of the papyrus. In the Egyptian monuments the hieroglyphics are sometimes plain, and sometimes decorated with colors. Those found on coffins appear to have been traced out and afterwards colored; those inscribed on papyri are merely sketched out, and are called linear hieroglyphs. They are arranged in perpendicular or horizontal columns, separated by lines, and in some cases distributed in a sporadic manner in the area of the picture to which they refer. H. ap-

pear on the walls of the earliest tombs, and are even found scrawled on the blocks of stone which form the great pyramid of King Cheops. They continued in use for upwards of 3,000 years, when they were superseded by a more condensed writing, called the Demotic, and lastly by the modern Coptic, on the introduction of Christianity. All knowledge of the mode of deciphering hieroglyphics was lost from the 10th to the 16th century; and on the revival of learning, the task was undertaken in vain, till the discovery of the Roestia stone in 1799, when a clue to their interpretation was gained. In 1814 Young was the first to discover, from the name of Ptolemy on this stone, and that of Berenice on a doorway in the south corner of Karnac, that certain H. swere used to represent sounds, and not ideas exclusively, as had been believed up to that time. From that period the study of hieroglyphics has been pursued by many learned men. Hieroglyphs are divided into two classes—udcopraphs, or symbols representing ideas, not sounds; and phonetics, which spell the sound of the word the sense of which they are intended to convey. Nearly all the inscriptions are principally composed of phonetics, which are a first, those which are onigmatic, and expressed the object directly; as a wolf to represent that animal, a man having the head of an ible to represent the object directly; as a wolf to represent the object directly; as a wol dertaken in vain, till the discovery of the Rosetta stone in 1799, when a clue to their interpretation was gained. In 1814 Young was the first to discover, from the name of Ptolemy on this stone, and that of Berenice on a doorway in the south corner of Karnac, that certain H. were used to represent sounds, and not ideas exclusively, as had been believed up to that time. From that period the study of hieroglyphics has been pursued by many learned men. Hieroglyphs are divided into two classes—ideographs, or symbols representing ideas, not sounds; and phonetics, which spell the sound of the word the sense of which they are intended to convey. Nearly all the inscriptions are principally composed of phonetics, which are easily distinguished by their constant recurrence. The ideographs are divided into two classes,—first, those which represent the object directly; as a wolf to represent that animal, a man having the head of an ibs to represent the god Thoth, a bundle of fiax to represent the god Thoth, a bundle of fiax to represent the god Thoth, a bundle of fiax to represent the god Thoth, a bundle of fiax to represent gate in the contract of these particular signs, however, was not many, as a certain class of them was used to express more ideas than one. Thus a figure representing a seated man signified man in all his relations, functions, and offices; meaning either father, brother, governor, priest, &c.; the particular meaning being conveyed by the arrangement of phonetics before the sign. In the same manner all acts of locomotion were represented by two legs in the act of walking; all actions where the same manner all acts of locomotion were represented by two legs in the act of walking; and all beasts and objects made of leather by a skin. The H closely resemble in their use the cuneform characters of the Assyrian. (See Custrosas). The Chinese mode of writing is also very similar to the hieroglyphs of ancient Egypt in the use of the phonetics. The discographs are constantly interchanged annong themselves; and t Almanac-makers and astrologers have also applied the term hieroglyphic to the symbolical pictures which are supposed to be prophetic of coming events.

Hierog'lyphist, n. A person conversant with hieroglyphics.

Hi'erogram, n. [Gr. hieros, sacred, and gramma, writings.] A kind of sacred writing.

Hierogrammac'le, a. Pertaining to, or written in hierograms, or sacred writing.

HIER

to hierophants.

Hies'ter's Mill, in Penasylvania, a P.O. of Berks co.

Hig'ganum, in Connecticut, a post-village of Middlesex co., about 23 m. 8.S.E. of Hartford.

eex co., about 23 m. S.S. of Hartford.

Hig'gin's Point, in Alaska, a cape forming the N.W. point of the N. entrance to the channel of Revilla-Gigedo; Lat. 55° 27′ N. Lon. 131° 34′ W.

Hig'ginsport, in Iowa, a post-office of Jackson co.

Hig'ginsport, in Okio, a post-village of Brown county, on the Ohlo River, about 47 miles above Cincinnati

Hig'ginsville, in Illinois, a P. O. of Vermilion co.

Higginsville, in Illinois, a P. O. of Vermilion co.
Higginsville, in New York, a post-village of Oneida
co. about 110 m. W.N.W. of Albany.

Higge, v. n. [See Hacque, Hawk, and Huckster.]
To carry and hawk provisions, vegetables, &c., about
for public sale.— To chaffer; to haggle; to be tedious,
nice, or close-fisted in making a bargain.

Higgeledy-piggeledy, adv. Topsy-turvy; upsidedown; at sixes and sevens: in confusion and disorder;
as, everything is higgledy-piggledy just now. (Used
colloquially.)

Higgeler, n. One who carries provisions, &c., about
for sale.—One who chaffers or haggles in making bargains.

Hig'gler, a. One who carries provisions, &c. about for sale. —One who chaffers or haggles in making bargains.

High, (hi,) a. (comp. Highers or haggles in making bargains.

High, (hi,) a. (comp. Highers is uper. Highers.) [A. 8. heah, heach; D. hoog; Ger. hoch; Goth. hauh; Icel. háa; Swed. & Goth. hòg; probably based upon the Sansk. adhi, over, above.] Elevated; lifted up; far above the earth or its surface; elevated above, or far above the borizon; raised above any object; lofty; sublime; as. a high mountain, a high tower, the sun is high in the heavens.

— Exalted in nature or dignity: elevated in rank, office, or condition; chief; eminent; lofty; as, high renown, a high station. — "The from high life high characters are drawn." (Pope.)—Noble: illustrious; of gentle birth; as, a man of high family. — Magnanimous; dignified; exalted in sentiment; distinguished; pre-eminent; honorable. "The highest faculty of the soul." — Arrogant; proud; boastful; ostentatious; — employed in a bad sense; as, "high and threatening language." (Caresdon.) — Loud; boisterous: blusterous; tempestuous; violent; forcible; as, a high sea, a high wind. — Strong; mighty; powerful; sometimes, majestic; triunphant: victorious; as, high passions. — Severe; oppressive; violent; as, to carry things with a high hand. — Solemn: mighty; hedd in veneration; as, "high histincts." (Wordsworth.) — Full; complete; great: rich; luxurious; strong; vivid; deep; as, high non, high heat, high seasoning, high coloring, high living, high pleasure, &c. — Very abstruse; profound; difficult to comprehend; complex. — They mest to bear and answer such high things. — Shabs. — Dear; costly; of a great price or value; precious; greatly prized; as, a high rate of purchase. — Capital; great; —

"They meet to near and anyer such mys tungs."— Sales.

Dear: costly; of a great price or value; precious; greatly
prized; as, a high rate of purchase. — Capital; great;—
opposed to little; as, high treason, in distinction from
petty treason.

(Chron.) Remote in past time; far advanced into an-

tiquity.

(Grog.) Remote from the equator, north or south;
advancing in Lat. from the line; as, a high temperature.

(Mus.) Acute; sharp;— in contradistinction to grave
or low; as, a high litch, a high note, a high sound.

(Fine Arts.) Wrought so as to stand prominently
from the surface; as, high-relief; also, far advanced in
perfection of style; as, high art.

High admiral. (Nav.) In Great Britain, the chief
admiral; the highest rank of admiral.—High and dry,
raised above the surface of the water; in a dry place;
as, a vessel high and dry.—High constable. (Bag. Law.) tiquity

A chief of police in some cities; a superintendent officer or constabulary. — High day. (Acript.) A saint's day; a festival; as, high days and holidays. — High himmed, a. Arbitrary behavior; assumption of (derived from an old Scottish pastime,) a festive time; fine doings; jollity. — High living, luxurious diet; feeding upon rich or costly food. — High noon, all; feeding upon rich or costly food. — High noon, all; himmed, a. Arbitrary; stringent; oppressive; (Sarg.) Extraction of the stone from the bladder. — High place. (Script.) An elevated place whereon sacrifices were offered. — High school. See Scool. — High sax, the ocean beyond the boundary of jurisdiction of any country; also, the waters of the sea beyond the limits of low-water mark. — High Hill, in Ohio, a post-office of Muskingum co. High himmed, a. Hung aloft; placed on high; elevated range in Monmouth co., extending from Sandy Michell (184). Treason against a state or government. See Dronou Mountle Claur. — High time, proper time for anything to be done; fit occasion. — High treason. (Law.) Treason against a state or government. See Transon. — High heater flood of the tide; also the time thereof. — High-water mark, the margin denoting the customary or periodical flow of the tide; also noting the customary or periodical flow of the tide; also noting the customary or periodical flow of the tide; also noting the customary or periodical flow of the tide; also noting the customary or periodical flow of the tide; also noting the customary or periodical flow of the tide; also noting the customary or periodical flow of the tide; also noting the customary or periodical flow of the tide; also noting the customary or periodical flow of the tide; also noting the customary or periodical flow of the tide; also noting the customary or periodical flow of the tide; also noting the customary or periodical flow of the tide; also noting the customary or periodical flow of the tide; also noting the customary or periodical flow of the tide; also noting the customary or

that line of the sea-beach reached by flood-water.—
High wine, distilled wine; pure alcohol or liquors.
Note. High is extensively employed in the construction of compound words, the majority of which are self-explanatory; as, high-red, high-crowned, high-priced, high-shouldered, &c.

High, adv. To a great altitude; eminently; greatly: with deep thought; profoundly; powerfully. "He reasoned high," — Millon.

— Aloft: a high place; an elevation; superior region: with deep thought; profoundly; powerfully. "He reasoned high."— Milton.

n. Aloft; a high place; an elevation; superior region

-m. Aloft; a high place; an elevation; superior region; as, on high, from high.

High'simed, (dmd.) a. Having lofty aims or aspirations; as, "high-aimed hopes." — Crashave.

High'slitar, n. (Eccl.) The altar at which alone high-mass is celebrated in Roman Catholic churches.

High'sballiff, (ba'it/), m. The chief bailiff; also, in England, the chief municipal officer of certain towns; also, an officer belonging to a county-court. (Eng.)

High'sbank, in Insidana, a town of Pike co., on the White river, about 100 m. S.S.W. of Indianapolis.

High'sbank, in Michigan, a post-office of Barry co.

High'sbleat, a. Supremely happy. "The mind of (and high-bleat, a. Much puffed with wind; self-in-

God high-blest."—Millon.

High'-blown, a. Much puffed with wind; self-infated, as with pride or vanity.

High'-bound, v. s. Being of noble birth or extraction.

High'-bound, v. s. To spring upwards; to bound

High'-bred, a. Well-bred; with aristocratic tastes

High 'Dreed, a. Well-bred; with aristocratic tastes and manners, becoming a gentleman.

High Bridge, New Jersey, a post-town of Hunterdon co. Pop. (1897) about 850.

High 'built', (Allt), a. Of lofty structure or elevation "His look haughty as his pile, Mgh-built and proud."—Milton.

-Covered with a lofty edifice or building.
"The high-built elephant his castle rears."

High'e-hurch, n. (Eccl.) That section of the Episco pal Church which maintains the highest notions re specting Episcopacy, the authority of bishops, &c. Sec PROTESTANT EPISCOPAL CHURCH.

High'-church'man, n. An adherent of High

Church tenets.

High'-climbing, (-klim'ing,) a. Climbing to a high elevation.

elevation.

Presenting difficulties of ascent.

High'-colored, High'-coloured, (-kul'lurd,)

Exhibiting a strong, deep, or glaring color; as, higolored wine. — Vivic: picturesque; forcibly represented; as, a high-colored narrative.

High-Commission, (Court of,) n. (Eng. Hist.
A court established by I Eliz. c. 1, as an ecclesiastica
tribunal, without power to fine.

High'-design'ing, a. Having great or lofty scheme

High'-design'ing, a. Having great or lofty scheme or designs.

High'-enn bewed, (-en-bôd',) a. Loftily arched.

High Falls, in New York, a post-village of Ulster co. about 70 m. S.W. by W. of Albany.

High'-feed, a. Pampered; fed on luxurious diet.

High'-feeding, n. Luxury in diet; high-living.

High-flown, (-flon), a. Elated; pompous; proud as, high-flown hopes.—Turgid; stilted; extravagant bombastic as high-flown hopes. bombastic; as, high-floors language.

High'-flushed, (flusht,) a. Elevated; gratified; ex

High'-flyer, n 'h'-flyer, s. One who carries his notions or prin-les to a pitch of extravagance; as, a political high-

Ayer. High'-flying, a. Extravagant in claims, opinions, or

apprations.

High Ferent, in Minnesota, a post-township of Olmsted co., abt. 6 m. S. of Rochester.

High gate, a village of England, co. Middlesex, forming one of the suburbs of London, 5 m. N.W. of Saint Paul's, and 450 feet higher than the dome of that cathering.

cathedral; pop. 6,000.

High gate, in Vermont, a post-village and township of Franklin co., on Missisque Bay, abt. 50 m. N.W. of

Montpeller.

High gate Resin, n. (Min.) Fossil copal or Copalite, q. v. It is named from Highgate, near London, ite, q. v. It is where it is found.

where it is found.

High'-German, s. The modern German language correctly spoken, — in opposition to Low-German, or Low-Dutch, or that spoken by the people of those German provinces bordering on Holland.

High's o, n. A spree; a joilification; high jinks; a caroual. (Colloq. and vulgar.)
High's oil of the sea.
the waves of the sea.

TAIN.

High Lake, in loses, a post-town of Emmet co.

High Lake, in Pennsylvania, a post-village of Wayne co. Pop. (1897) about 150.

High Eand, n. A mountainous region; an elevated tract of land; as, the highlands of Scotland, highlands of the Hudson, &c.
-a. Pertaining to, or partaking of the characteristics of,

-a. Pertaining to, or partaking of the characteristics of, a mountainous or rugged country; specifically, relating or belonging to the highlands of Scotland; as, a highland glen, a highland clain, a highland welcome.
 Highland, in Illinois, a township of Grundy co.
 -A city and township of Madison co., 34 m. E. by N. of St. Louis, Missouri. Pop. (187) about 2,000.
 Highland, in Indiana, a post-village of Leke co., on the C. & F. R.

the C. & E. R.R.

-A township of Franklin co. -A township of Green co.

-A township of Green co.

-A township of Montgomery co.

-A village of Vermilion co., abt. 70 m. W. of Indianapolis.

Highland, in force, a post-township of Clayton co.,
about 5 m. W. of Elkader.

-A township of Guthrie co.

about 5 m. v. of Eisauer.

—A township of Guthrie co.

—A township of Union co.

—A township of Willou co.

—A township of Willou co.

—A township of Washington co.

—A township of Washington co.

—A township of Washington co.

—A township of Winneshiek co.

Highland, in Kansus, a post-village of Doniphan co., about 25 m. W.N.W. of St. Joseph, Missouri. Pop. 500.

Highland, in Mississa, a post-office of Knox co.

Highland, in Mississa, a post-office of Fillmore co., about 30 m. S.S.W. of Winona.

—A village of St. Louis co., abt. 17 m. W.N.W. of Duluth.

Highland, in Mississippi, a post-village of Tishenning co., about 32 m. S.S.E. of Corinth.

Highland, in Mississa, a township of Gage co.

Highland, in New York, a township of Sullivan co.

—A post-village of Ulster co., on the P., B. & N.E. and West Shore R.Rs.

Highland, in Ohio, a S.S.W. co.; crea, about 527 sq.

West Shore R. R.S.

\*\*Highland, in Ohio, a S.S.W. co.; area, about 527 sq.
m. \*\*Rivers.\*\* Paint river, and Brush, Rattlesnake, and
White Oak creeks. \*\*Surface, elevated; soid, fertile. Cap.
Hillsborough. \*\*Pop. (1890) 29,048.

— A township of Defiance co.

The P.O. paramed New Lawrence a page village of

The P.O. name of New Lexington, a post-village of Highland co.

Highland co.

—A township of Muskingum co. **Highland**, in Pennsylvania, a P. O. of Bradford co.

—A township of Chester co.

—A village of Dauphin co. **Highland**, in South Carolina, a post-village of Green

Highland, in Tennessee, a post-office of Jackson co.

Highland, in Texas, a post-office of Erath co.

Highland, in Texas, a post-office of Erath co.

Highland, in Virginia, a N.W. co., adjoining W. Virginia; area, about 399 sq. m. Ricers. The headwaters of the James and Potomac rivers. Surface, diversified, being bounded N.W. and S.E. respectively by the Alle-

being bounded N.W. and S.E. respectively by the Alleghany and Shenandoah Mountains. Soil, in the valley, fertile. Cap. Monterey. Pop. (1890) 5,362.

Highland, in Wisconsin, a post-village and township of lowa co., 50 m. W. of Madison. Pop. of village (1890) 751.

Highland Creek, in Kentucky, enters the Ohio river, between Union and Henderson cos.

Highlands. They are sometimes called Bisconness, from the national covering of the peasantry, a fabric of thick milled woollen, without seam or lining, and so exceedingly durable that, with reasonable care, a single bonnet serves a man all his life. This cap, so frequently noticed in historical records and in Scotch songs, was thick milled woollen, without seam or lining, and so ex-ceedingly durable that, with reasonable care, a single bonnet serves a man all his life. This cap, so frequently noticed in historical records and in Scotch songs, was of a broad, round, and flat shape, overshadowing the face and neck, and of a dark-blue color. It has been since

somewhat modified, and is now known as the Glengarry bonnet. See Clax, and Scotland. High land Falls, in New York, a P. O. of Orange co. Highland Falls, A dance of the Scots Highlanders. Highland'ish, a. Having the characteristic features

of highlands, or mountainous scenery.

Highland Lake, in Penna., a P. O. of Lycoming co.

Highlandman, s.; pl. Highlandman, s. A Scots

highlander,
"It's ill to tak' the breeks frae a Hielandman."—Scots Pros. Highland Mills, in New York, a post-village of Orange co., about 95 m. S.W. of Albany. High land Nursery, in New York, a village of

Schuvler co. Schuyler Co.

High Hand Park, in Illinois, a city of Lake co., on Lake Michigan and C. & N.W. R.R., about 24 m. N.N.W. of Chicago. Pop. (1890) 2,163.

Highlands, in New York, a mountainous region in Orange, Putnam, and Dutchess cos., on both sides of the Hudson River. The greatest elevation, New Beacon, is 1,685 feet above sea-level.

Highlandvittle, in Jona, a P. O. of Winneshick co.

High-life, n. The fashionable world; aristocratic circles; bon-ton; as, a wedding in high-life.

High-life, n. To lift upward; to raise aloft.

High-lived, a. Belonging to high-life.

High-living, n. Luxurious living; rich diet; fashionable mode of life.

High-low, n. An ankle-boot, or ankle-jack; a Blucher-boot.

'In a velveteen jacket, cordurey pantaloons, and high-lows." Egen Highly, (ht'ly,) adv. In a high manner; with elevation in place; in a great degree; with elevation of mind, opinion, or action; with great estimation; proudly; arrogantly; ambitiously;—opposed to lowly.

High Market, in New York, a post-town of Lewis co., about 130 m. N.W. of Albany. Pop. (1897) about 750.

High-mass, a. (Eccl.) In the Roman Catholic church, the mass which is celebrated before the high-altar on Sundays and festivals.

Sundays and festivals.

Righ'meu, n. pl. A name given to dice loaded in manner to invariably show high numbers when thrown.

High'meutled, a. High-spirited; full of fire and courage; as, a "high-mittled racer."

High-minded, a. Proud; haughty; arrogant; as, a "high-minded strumpet."—Shaks.

—Having honorable pride; magnanimous; characterized by elevated thoughts, feelings, and principles:—in contradistinction to mean; as, a high-minded man.

High'-minded; elevation of character; magnanimity.

High'meas, n. State of being high; elevation above the surface; loftiness; altitude; height.—Dignity; elevation in rank, character, or power; excellence.—Violence.—Great amount.—Acuteness, as of tone.—Intensity, as of heat.

A title first attributed to bishops, and afterwards to

Intensity, as of heat.

A title first attributed to bishops, and afterwards to European monarchs in general (succeeded, however, by majesty in the l6th century), and, thereafter, to sovereign princes (below kingly rank), and their descendants. The title of royal highness was first assumed by Gaston, Duc d'Orieans, brother of Louis XIII., in 1631; and it is now conferred on all royal princes and princesses, whether in the direct line of succession or not. The Elector of Hesse-Cassel had, and the German grand-dukes still have, also the title of royal highness. The children of the latter bear, however, the style of grand-dukes still have, also the title of royal highness. The children of the latter bear, however, the style of grand-dukes still have, also the title of royal highness. The children of the latter bear, however, the style of grand-dukes still have, also the title of royal highness, being an equivalent for the term Durchlaucht, by which they are addressed in Germany.

High Point, in Ilians, a post-township of Decatur co. Pop. (1895) 766.

High Point, in Missouri, a post-township of Nees co. High Point, in Missouri, a post-township of Moniteau county.

High-spriest, the chief priest and head of the Jewish A title first attributed to bishops, and afterwards to

County.

High-priest, the chief priest and head of the Jewish synagogue, instituted by Mosee, acting under the instructions of Jehovah. The importance of this effice was indicated by the most gorgeous apparel, and the

was indicated the high-priest was esteemed the most imposing personage of the nation, (Fig. 1287.) The dress of this dress of this functionary was characterized by his breast-plate, termed the urim and thummim, or "light" and "right," according to Lu-ther's translather's transla-tion, composed of twelve pre-cious stones, on which the names of the twelve tribes of Israel were inscribed. To h i m belonged the exposition of the oracles



Pag. 1287. - BIGH-PRIMER Digitized by **GOO** 

of God, and no other was allowed to enter the sanctu-ary, or holiest of holies, in the tabernacie, which he was only allowed to do once in a year, in order to pray and sacrifice for the sins of the nation, which were be

and sacrifice for the sins of the nation, which were be-lieved to be thus explaited.

\*\*High'-pressure, (prish'ur.) a. (Steam-engineering.)

A term applied by engineers to designate the steam which works engines without being condensed at the end of every stroke; it is usually employed at a high degree of elastic force, the pressure per square inch being at about from 40 to 60 lbs. In American and in some modern English engines steam of 1 a like engineering. being at about from 40 to 60 lbs. In American and in some modern English engines, ateam of 1.0 lbs. pressure per inch superficial is used. Condensing engines are not usually high-pressure engines, though they may employ high-pressure steam.

High-pressure engine. (Mach.) A non-condensing steam-engine, worked by the excess of the pressure of the atmosphere; in this engine, after the steam has acted upon the piston, it passes through the eduction-pipe into the air.

Vialding a vial

High'-priced, a. Yielding a great price; costly; ex-

pensive; dear.

High-priestship, n. Rank or office of a high-priest.

High-principled, a. Possessing principles of a lofty or elevated character; strict in principle; as, high-principled morality.—Extrawagnatin notions of politics.

High-proof, a. Possessing highly rectified alcoholic properties; as, high-proof whiskey.

High-raised, (-rased) a. Elevated; lifted on high; placed aloft.—Uplifted or elated with high notions or expectations.

expectations

expectations.

High'-reaching; a. Reaching to a considerable altitude.—Far-reaching; extending upward.—Aspiring; self-seeking; ambitions; as, a high-reaching politician.

High'-red, a. Deeply-red; possessing a atrong, glaring red color; as, a "high-red tincture."—Boyle.

High'-resolved, a. Very resolute; with superior determination.

ermination.

High'-road, n. A highway; a road much frequented

High'-road, n. A highway; a road much frequented or travelled by the public.

High'-ropes, n. pl. Intense excitement of mind; uncontrollable pussion: cautankerous humor; as, our friend's wife is on her high-ropes.

High'-sea, n. Very strong, high waves; a heavy sea.

High'-sea, n. Very strong, high waves; a heavy sea.

High'-sea, n. Very strong, high waves; a heavy sea.

Grade to condiments; tasty; imparting gasto; as, high-sensoned delicacies.

High Sheals, in Alabama, a post-village of Randolph co. Pop. (1897) 88.

High Sheals, in Georgia, a post-village of Oconee co. Pop. (1897) about 585.

Pop. (1897) about 585.

High'-sighted (sit'ed), a. Always looking upward;
as, "high-sighted tyranny."—Skaks.

High'-sounied, a. Possessing a high spirit; loftyminded; magnanimous; as, a high-souled woman.

High'-sounding, a. Stilled; pompous; inflated
with ostentation; noisy; pretentious; as, high-sounding
language.

language.

High spire, in Penasylvania, a post-borough of Daumight spire, in reasystema, a post-torough of Data-phin co, 6 m. S. & of Harrisburg, on Pennsylvania R. R. High'-spirited, a. Full of natural fire; vehement: easily excited; irascible; spunky; as, a high-spirited youth.

—Bold; daring; insolent; bolsterous; as, a high-spirited

High-steward, n. In England, a great officer of state; as, the Lord High-Steward of the Household; also, the chief governing officer of a university or town; as, the High-steward of Oxford University.

as, the High-sizeard of Oxford University.

High'stomached, (stim'akt), a Possessing a proud, lofty, or independent spirit; obstinate; petulant.

High'strung, a. Strung to a full tone; pitched to a high key-hence, high-spirited, proud, defant, haughty; as, a high-strung horse.

High'swelling, a. Swelling greatly; boastful; bombastic; with inflation; as, high-swelling words.

Hight, (hil.) r. a. and n. (imp. and pp. Hight, ) To be called, named, or styled. (Used only in composition.)

"Callde Harold, was be hight?"—Byron.

High'stamer. n. (Bot.) See Verbascum.

High'-taper, n. (Bot.) See Verbascum. High'-tasted, a. Having a strong relish, or flavor

pluant: as, high-tasted game.

Hightener, (hit'n-r,) n. He who, or that which, heightens. (a.)

High-tide, n. High-water; a tide that rises higher

than an ordinary tide; a strong flood.—A holiday.

High'tower, in Georgia, a post-village of Forsyth coon the Etowah River, about 120 miles N.W. of Milledge-

High'tower, in Georgia, a post-village of Forsyth coon the Rtowah River, about 120 miles N.W. of Milledgeville.—See Etowah.

High'town, in Virginia, a post-office of Highland co.

Hight's town, in New Jersey, a past-borough of Mercer co., on P. & H. and Penna. R. Rs.

High'voiced (vist), a. Excessively wicked; heinous;
as, a "high-viced city."—Shaks.

High'voiced, (-roist), a. Having the voice pitched,
in a high key; possessing a loud tone of ntterance.

High'voiced, (-roist), a. Having the voice pitched,
in a high key; possessing a loud tone of ntterance,
and it is also a term applied to the time of such clevation. The time of H. W. depends on the age of the moon,
and is nearly always the same at any one place at the
full of the moon. H. W. lasts about 15 to 20 minutes.
after which time the tide begins to ebb. The method by
which the time is found is as follows:— Aidi four fifths
of the days of the moon's age, considering them as hours,
to the time of H. W. at the full of the moon; and the
sum thus obtained will be found to be the time of H. W.
answering to the day in question.

"Trades we have lest, and are in the highway to lose."—Child.

High'waymam, n.; pl. Highwaymam. One who robs
pussengers on a public road or highway; a footpad.

Highworth, (hi'seèrth,) a town of England, in Wiltshire, 4 m. from Shrivenham Station, on the Great
Western Railroad; pop. 4,200.

High'swrought, (-raut) a. Wrought with exquisite
art or skill; elaborately finished; accurately done.

—Inflamed to a high degree; worked to a strong pitch;
as, high-wrought passions.

Higuey, (heè ga.) a village of the island of Hayti, W.
Indies, about '8 m. E. of San Domingo.—A bay of the
above island; Lat. 182 20 N., Lon. 680 40 W. It is
protected by the island of Saona.

H. I. H., abbreviation of His, or Her, Imperial High1008.

ness.

Hi'ka, in Wisconsis, the P. O. name of Carterville, a pist-village of Maintowoc co.

Hi'ka, in Nesada, a post-village of Lincoln co., about 300 m. St. of Carvon City.

Hilabee', or Hillabee', in Alabama, a village of Talladega co.

—A small creek, entering the Tallapoosa River from Tallapoosa co.

Builder a, (Red.) Partaining to the billium of a seed.

Hi'lar, a. (Bot.) Pertaining to the hillum of a seed.

Hilarion, (St.,) the principal founder of Monachism in Palestine, was B. near Gaza, about A. D. 232. Sent to study at Alexandria, he was there converted to Christianity, when the fame of St. Anthony attracted him to the desert and made him a monk. He then returned to Palestine, gave away his property, and retired, still very young, into the desert. He founded several monasteries, lived the most austere life, and gained the highest reputation for sanctity and even for miraculous powers. He afterwards visited the regions of Egypt, Sicily, and Daimatia, and D. in the isle of Cyprus, about 372. His Life was written by St. Jerome.

\*\*Rilar rious\*\*, a. Full of hilarity; gay; mirthful; merry; as, hilarious laughter.

\*\*Rilar rious\*\*, a. Full of hilarit; Lat. hilaritas, from Gr. hilaros, cheerful, gay, joyous, from hilaos, propitious, favorable.] Cheerfulness; mirth; merriment; gayety; good humor; exhilaration; jollity; exuberance of anistudy at Alexandria, he was there converted to Chris

good humor; exhilaration; joility; exuberance of animal spirits. al spirits.

good humor; exhilaration; jollity; exuberance of animal spirits.

#il'ary, a pope, elected in 461; p. 467.

#il'ary, (St.,) a father of the Church, bishop of Poitiers, one of the greatest church-teachers of his age, was a native of Politiers, and was raised to the episcopal office about a. p. 350. On the arrival of the Emperor Constantius in the West, and the consequent introduction of the Arian controversy into the Gallic Church, he presented a memorial to the emperor, frankly, yet respectfully, pleading for freedom of worship for the Catholics. It was in vain; and he was soon after banished to Phrygia. He appeared at the Council of Seleucia in 359, and afterwards at Constantinople, but he was cordered to return to his diocese. He countined his exertions in behalf of the orthodox faith, held several councils in Gaul, and also visited Italy. H. wrote several works of divinity and some hymns, and translated many works of Origen into Latin. D. 367.

#ii'ary, (St.,) bishop of Aries; p. 401; p. 449.

#ii'aburgham'sem, a town of Prussia, on the Werra, 16 m. S.E. of Meiningen. Manuf. Papler-mâché, woollen and linen cloths, dolls, and tobacco. It was once the cap of the duchy of Saxo-Hildurghausen. Pop.6,000.

#ii'debramd. See Gascory VII.

#ii'debramd. See

the duke of Friuli.

Hildesheims, (hil'des-hime.) [Lat. Hennepolis.] A city of Prussia, in Hanover, 16 m. 8.B. of Hanover. Manuf. Linen cloths and yarn. Pop. 16,500. H. has a splendid Gothic cathedral, built in the 11th century, with bronse

Gothic cathedral, built in the 11th century, with bronse gates 16 feet high.

Hil'dreth, Richard, an American author and journalist, s. at Deerfield, Mass., in 1807. In 1832, H. became editor of the "Boston Atlas." In 1834, while sojourning in the South, he produced his anti-slavery novel Archy Moore, which was republished in England under the title of the White Stare, and became very popular. In 1840, H. removed to Demerara, British Guinna, where

editor of the "Boston Atlas." In 1834, while sojourning in the South, he produced his anti-slavery novel Archy Moore, which was republished in England under the title of the White Sare, and became very popular. In 1840, H. removed to Demerara, British Guiana, where in an editorial capacity he became a prominent advocate of free labor. H. principal work was the History of the United States (6 vols. 8vo., New York, 1849-36). H. also published Japon as it Was and Is (12mo., 1855). H. also published Japon as it Was and Is (12mo., 1855). H. also published Japon as it Was and Is (12mo., 1855). H. New York Tribune. Died July 11, 1865.

Hile, n. (Bot.) See Hillum.

Hile, n. (Bot.) See Hillum.

Hillaborough, in Georgia, a post-village of Jasper co., about 26 miles W. by N. of Milledgeville.

Hillsborough, in Islands, a post-village, cap. of Montgomery co., about 6 miles 8. of Springfield. Pop. (1891) 564.

—A village of Wayne co., 11 m N. by E. of Richmond. Hillsborough, in Islands, a post-village of Fountain altitude. —Anything hemispherical and prominent, or having the form of a hill. —The earth raised about the root of a plant or cluster of plants. (U. S.) — Mobiser, et al. The earth raised about the form of a hill. —The earth raised about the form of a hill. —The earth raised about the form of a hill. —The earth raised about the form of a hill. —The earth raised about the form of a hill. —The earth raised about the miles Le of Annapolis.

Hillsborough, in Mississippi, a post-village of Caroline co., about 30 miles E. of Annapolis.

Hillsborough, in Mississippi, a post-village of Scotting the earth heaped up about them. (U. S.) — Wobster.

—e. a. To form hills, or small elevations of earth; as, to hill corn.

High-water mark, is the line made on the shore by the tide at its utmost height.—See Tidal Action.

High way, n. A public road; a way open to all passengers; an open thoroughfare;—opposed to by-way.—A process of action, with apparent consequences; and action, with apparent consequences; and action, with apparent consequences; and allowed in a figurative sense.

"Trades we have test, and are in the Migheouy to less."—Child.

High waymam, n.; pl. Highwayner. One who robs passengers on a public road or highway; a footpud.

Migh waymam, n.; pl. Highwayner. One who robs passengers on a public road or highway; a footpud.

Migh waymam, n.; pl. Highwayner. One who robs passengers on a public road or highway; a footpud.

Migh waymam, n.; pl. Highwaymer. One who robs passengers on a public road or highway; a footpud.

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Migh waymam, n.; pl. Highwaymer. Action.

Migh waymam, n.; pl. Highwaymer. One who robs passengers on a public road or highway; a footpud.

Migh waymam, n.; pl. Highwaymer. Action. Will.

Migh waymam, n.; pl. Highwaymer. Action.

1824. D. 1833.

Hill, Sir. Rowland, E.C.R., F.R.S., celebrated as the author of the cheap or penny-postage system. R. in England, 1795. After agitating, for several previous years, his scheme regarding a reform of the old postal and franking systems, he, in 1842, succeeded in getting it carried into effect. It at once produced great results, and in 1846 the British public presented H. with a testimonial valued at \$67,000. In 1854 he was made Chief Secretary of the English Post-Office, and held that position till 1864, when he retired on account of ill-health. In the same year, he was voted a sum of \$100,000 by Parliament, the Albert gold medal of the Society of Arts, and the degree of D.C.L. in recognition of the benefits he had conferred on his country. H. was also the originator of the muncy-order system, and of post-office savings-banks. He was knighted in 1860. D. 1879.

Hill, in New Hampshire, a post-office of Merreiroc.

Hill, in Texas, a N. courtal co.; gree, shout 1,000 eq. m.

Hill, in Pennsylvania, a post-office of Mercer co.

Hill, in Texas, a N. central co.; area, about 1,000 sq. m.

Rivers. Brazos and Noland's rivers, besides numerous
smaller streams. Surface, level; soil, fertile. Cop. Hillsborough. Pop. (1890) 27,583.

Hilliam, Helliam, a town of Asiatic Turkey in the
pashalic of Bagdad, and 60 m. S. of that city, on the W.
bank of the Euphrates, and bordering the great Syrian
desert. In the vicinity are the ruins of Babylon, and it
is the attempt of commerce between Bandel and Ber

is the entrepôt of commerce between Bagdad and Bassora. Pop. 13,000.

Hill Church, in Pennsylvania, a P. O. of Berks co.

Hill Church, in Pennsylvania, a village of Montgomery
co., alt. 20 m. S. of Allentown.

Hillel, the Edder, surnamed Hassaken, was a celebrated co., alit. 20 m. S. of Allentown.

Hillel, the Elder, surnamed Hassaken, was a celebrated Jewish doctor or rabbi, who lived in the century preceding the Christian sera, and was a native of Babylon. At the age of forty he removed to Jerusalem, where he studied the law with such diligence as to become master of the chief school of that city. He formed a new digest of the traditionary law, from which the "Mishna," or earliest part of the Talmud, is derived. Shammai, one of his disciples, dissented from his master, and set up a new college, which produced violent contests among the Jews; but the party of Hillel proved victorious. He lived to the great age of 120 years.

Hillel, the Founger, who obtained the title of NAEL or prince of the captivity, presided over the Jewish church in the 3d and 4th centuries, and distinguished himself by his great astronomical learning, reforming the Jewish calendar, regulating the period of the equinoxes, &c. H. was also one of the doctors to whom is ascribed that portion of the Talmud called "Gemara."

Hillerman, in Ullisoit, a village of Massac co.

Hill Grove, in Ohio, a post-office of Lake co.

Hill Grove, in Ohio, a post-office of Meade co.

Hill Grove, in Ohio, a post-village of Pranklin co., abt. 10 nn. N.W. of Columbus.

Hillards, in Pessac, a post-village of Butler co.

Hilliards, in Pessac, a post-village of Butler co.

Hilliards, in Pessac, a post-village of Nash co.

Elillards, in Ohio, a flourishing township of Knox co.

Hil'lier, in Ohio, a flourishing township of Knox co. Hil'liness, s. State of being hilly, or covered with eminences.

Hill'ing, s. Act or process of raising soil around plants, &c. **Hil'lock,**a.

plants, &c.

Hill'Sock, a. A gentle eminence; a small hill.

Hill River, in British N. America. See HAYES RIVER.

Hills'borough, a town and parish of Ireland in the
co. of Down, Ulster, about 3 miles S.S.W. of Lisbura.

Pop. of town (1897) 2,950.

Hillsborough, a town of the island of Carriacou,
one of the Grenadines, West Indies.

Hillsborough, a town shing Albart co. Naw Bener.

one of the Grenaunes, west Index.

Hillsborough, a township of Albert co., New Brunswick, on the Peticodiac river.

Hillsborough, in Alabama, a post-village of Lawrence co., about 120 m. N. of Tuscalousa.

Hillsborough, in Arkansas, a post-village of Union

Digitized by GOOGLE

Hills'borough, in North Carolina, a post-village, cap. of Orange co., 40 m. N.W. of Raleigh. Pop. (1890) 662.
Hillsborough, in New Hampshire, a S. co., adjoining Massachusetts; area, about 844 aq. m. Ricers. Merrimac, Contoccook, and Souhegan rivers, besides numerous smaller streams. Surface, uneven; soil, mostly fertile. Usp. Manchester and Nashua. Pop. (1890) 35,247.

—A post-township of Hillsborough co., about 20 m. W. by S. of Concord. of Concord.

Hillsborough, in New Jersey, a post-township of

Somerset co.

Hillsborough, in North Dakota, a post-village of

Traille co. Pop. (1897) about 1,000.

Hillsborough, in Ohio, a post-village, cap. of Highland co., 65 m. E. of Cincinnati. Pop. (1897) ab. 3,750.

Hillsborough, in Oregon, a post-village, cap. of Washington co., 40 m. N. of Nalem.

Hillsborough, in Pennsylvania, a post-borough of Semesuria.

Hillsborough, in Tennesse, a post-vill. of Coffee co.
Hillsborough, in Tennesse, a post-vill. of Coffee co.
Hillsborough, in Teras, a city, cap. of Hill co., on
M., K. & T. and St. L. S. W. R.Ra., 66 m. S.S.W. of Dallas. Pop. (1897) about 2,739.
Hillsborough, in Virginia, a post-village of Loudoun
co., about 165 m. N. of Richmond.
Hillsborough in Wisconsin, a post-village and township of Vernon co., about 33 m. W.N.W. of Baraboo.
Hillsborough Bridge, in New Hampshire, a postvillage of Hillsborough co., about 21 m. S.W. of Concord.
Hillsborough Centre, in New Hampshire, a postvillage of Hillsborough co.
Hills'dale, in Michigan, a S. co., adjoining Indiana
and Ohio; area, about 597 sq. m. Ricers. The headwaters of the St. Joseph's of Lake Michigan, St. Joseph's
of the Manmeo, Grand and Kalamazoo rivers. Surface,
diversified; soil, fertile. Cap. Hillsdale. Pop. (1894)
30:271.

is seat of Hillsdale College. Pop. (1899) 2,121.

Hillsdale, in Minnesola, a township of Winona co., about 5 m. W. of Winona.

Hillsdale, in North Carolina, a post-village of Guilford co., about 95 m. N.W. of Raleigh.

Hillsdale, in New York, a post-town and township of of Columbia co., about 45 m. S.S.E. of the city of Albany.

Hillsdale, in Pennsylvania, a post-village of Indiana

Hill's Fork, in Ohio, a post-office of Adams co.
Hills'grove, in Illinois, a village of McDonough co.
about 12 m. S.W. of Macomb.

about 12 m. S.w. of macoino.

Hillsgrowe, in Pennsylvania, a post-village of Sullivan co, about 23 m. W. of Laporte.

Hill'side, in Pennsylvania, a post-village of Westmoreland co, about 19 m. E.N.E. of Greensburg.

Hill'side, n. The side, slope, or declivity of a hill.

Hill's Land'ing, in Maryland, a village of Prince George co.

George co.

Hill's Point, in Maryland, a post-vill of Dorchester co.

Hill Spring, in Kestucky, a post-office of Henry co. Hills'view, in Pennsylvania, a post-office of West-

Hills'ville, in Pennsylvania, a P. O. of Lawrence co. Hills'ville, in Pennsylvania, a P. O. of Lawrence co. Hills ville, in South Carolina, a P. O. of Spartanburg co. Hills ville, in Sirginia, a post-village, cap. of Carroli co., about 260 m. W. by S. of Richmond.
Hill'top, s. The summit or crown of a hill.
Hill'town, in Pennsylvania, a post-township of Bucks co. about 6 m. W. by S. of Doylestown.
Hill Valley, in Pennsylvania, a village of Huntingdon

Hill'y, a. Abounding with hills; characterized by eminences; as, a hilly tract of country.

Hile, in Minnesota, a village of Bigstone co.

Hile, n. [A. S. hill; gehill, from healdom, to hold] That part of anything which is to be held in the hand; the handle or haft, particularly of a salve.

"A sword from hill to point."—Shaks.

Hilton's, in Tennesse, a post-village of Sullivan co, on the Holoto River, about 10 wounded, that of the Hilton's in Tennesse, a post-village of Sullivan co, the Hilton's in Rose of the Asia and captured the Research of th

lays is usually restricted by geographers to that portion

or the range lying between the passages of the Indus and Brahmapootra; the former being in Lat. 35° N., and Lon. 76° E. and the latter in 28° 15′ N., and Lon. 96° E. The direction of the range, as thus defined, is S.E. from the Indus to the Gunduk, and thence E. to its termination. Its entire length is 1,900 m.; its average breadth 90 m., and the surface which it covers is estimated at 160,000 sq. m. The average height of the H. has been estimated at 15,700 ft. The principal peaks are: Mount Everest, 29,002 ft.; Kuncainjinga, in Sikkim, 28,178 ft.; W. peak of the same, 27,825 ft.; Dhawaliagiri, in Nopani, 26,749 ft. The passes over the main ridge amount to about 20, a few of which only are practicable for horses, sheep being principally used as beasts of burden over the steep activities. The limit of perpetual congelation in this chain is about 12,000 fect above sea-level. The only rock sufficiently extensive to characterize the geological formation of this great chain is gneiss, which constitutes the substance of the highest ridges and creets. Granite, schist, clay-slate, and red sandstone are also met with

HIMA



Fig. 1288. — A VILLAGE IN THE HIMALAYAS.

The chief minerals hitherto found are gold-dust, copper iron, antimony, manganese, sulphur, alum, and salt. There are no direct traces of volcances so far lead, fron, antimony, manganese, supplied, rock-salt. There are no direct traces of vulcanoes so far discovered by English explorers, but the numerous thermal springs, and many shocks of earthquake felt by travellers in many parts of the range, indicate it to be the focus of derangements of the earth's crust. The height at which plants and trees flourish on the H- varies on the N- and S. slopes nearly proportionally to the difference in the altitude of the snow-line. On the S. slope grain cultivation is not attempted higher than 10,000 feet; the highest habitation is at 9,000 feet; pines show their best growth at an elevation of 10,300 feet. as stope grain cultivation is not attempted nigher than 10,000 feet: the highest habitation is at 9,000 feet; pines show their best growth at an elevation of 10,300 feet. The rhododendron grows up to 12,000 feet, and birches are found as high as 13,000 feet above the sea. On the N. side, villages are found as high as 13,000 feet, grain is cultivated at 13,500 feet, birch-trees rise to 14,000 feet; and vegetation is met with at 17,500 feet. Wheat, barley, and other grains are found on these heights. Strawberries and currants thrive on the 8, slope, at an altitude of 11,600 feet. The mammalis of the H. are chiefly confined to ruminating animals, a few varieties only of the horse and cat tribes being found in these regions. The brild horse is seen on the N. side of the range; but the principal tenants of the hilly slopes are the yak, much used as a beast of burden by the Tartars, the ghuri (Caper agragus), of which the Cashmere and Thibet goats are varieties, the Nepul stag, the black deer, the chirn, or one-horned antelope, the goral, and the nylghan. Among the birds are the læmmer-geyer (Gypztus barbatu), the common cuckoo, the Impeyan pheasant (Lophotus), the common cuckoo, the Impeyan pheasant (Lo phorus refulgens), the red-legged crow, and the w

pigeon.

Himaisy'an, a. (Geog.) Relating or pertaining to the Himaisya Mountains, Asia.

Himan'topus, n. [Gr.himantopous—himas, a thong,



Fig. 1289. — THE BLACK-NECKED STILE, (From Tenney's Manual of Zoology.)

and poss, foot.] (Zoll.) A genus of Grallatorial birds, family Recursivostride, distinguished by the great length of their leg; from which circumstance they are sometimes called Stilt-birds. One species is found in this country, the Black-necked Stilt, H. nigricollis (Vicili), (Fig. 1289.) This bird, called in Europe the Long-legged Plover, is 14 inches long. As its conformation would lead us to conclude, it is a bird whose most congenial habitat is morasses, and the low, flat shores of lakes, rivers, and seas. Like many of the true grallatores, it possesses the power of swimming with the greatest case and lightness. Few birds exceed it in the powers of flight; its wings far exceed the tail, and it passes through the air with astonishing rapidity. When on firm ground, it appears as if tottering on long and awkward stilts, but firm ground is not its congenial sphere.

Himm'erm. (Anc. Geog.) A Greek city of northern Sicily, at the mouth of the river Himers, between Panorusus and Cephalædium, was founded by a colony from Zancle, B. C. 648. A great battle was fought near the city, between the Carthaginians and the Sicilians, the latter being victorious, B. C. 480. Some new colonists, of Doric extraction, arrived here B. C. 476. It was razed to the ground by the Carthaginians, B. C. 408. Many of the inhabitants returned, and founded a new city near the site of H., B. C. 406. Agathocles was defeated at H., B. C. 310.

site of H<sub>1</sub>, S. 0. 600. Agathocies was defeated at H<sub>2</sub>, B. C. 310.

Himself's pros. [Him and self.] (Gram.) The emphatic and reciprocal form of he and him, used only in phatic and reciprocal form of he and him, used only in the nominative or objective cases; as, he told me so himself, it was himself, &c. — Possessing self-command or government; in his true or natural character, tem-per, or disposition, as distinguished from moral obliquity, derangement, or other factitious influence; as, let him alone, he will come to himself.

e avaunt, Richard's himself again."—Shaks.

"Conscience avanat, Richard's himself again."—Shahs.

By himself, alone; without companionship; secluded; solitary; as, he prefers to be by himself.

Himpyar'ie, Himpyar'i'ie, a. Relating or pertaining to Himpyar'ie, or to his successors, or people; as, the Himpyaritic Inscriptions, (Archard.) Inscriptions found in Arabia, exhibiting the primitive type of the oldest form of the language still spoken in Yemen, and the S. of Arabia. These inscriptions have been investigated, since 1830, by Gesenius, Rödiger, Frenel, and Ewald.

Him, n. [Heb.] A liquid measure among the Hebrews. It was the 6th part of an ephah or bath, equal to about six English quarts.

Himche, (hansh.) a town of the island of Hayti, W. Indies, on the Hinche River, an affinent of the Artibonite, about 46 m. S.E. of Cape Haytien.

Himch'imbrook, a village of Beauharnois co., Lower Canads.

Canada.

Hinch'in brook Haland, lies on the N.W. coast of N. America, in Prince William's Sound. It is barren, desolate, about 30 m. in length from N.E. to S.W., and about 8 m. in mean width. Lat. 60° 24' N., Lon. about 140° 56' W.

Hinck Ley, a town of England, in Leicestershire. 12 m. S.W. of Leicester, and 102 W.N.W. of London. Manuf. Cotton stockings, thread, and worsted. It is noted for its fine ale. Pop. 8,030.

Hinck Ley, in Ohio, a post-township of Medina

CO.

Hime'man, archbishop of Rheims, known as a controversial and learned writer in the 9th century.

Himd, n. [A. 8. and Du. hinds; Ger. hinds, hindinn; Icel. hind; O. Ger. hinds. Etymol. unknown.] [Zöll.]

The female of the red deer or stag:—correlative of hart.

Hind, n. [O. Eng. and Scot. hyne.] A peasant; a rustic; a boor; a country clown; a farm-laborer. (Used in England.)

tic: a boor; a country clown; a farm-laborer. (Used in England.)

Hind, a. (comp. Hinder; super! Hindnor or Hinder.

Most.) (A. B. Ayndan; Ger. Ainden; Goth. Aindar, hindan, behind; probably connected with Finn. Annda; Eathon. Aand, the tail.] Backward; pertaining to the part which follows: placed in the rear;—in opposition to the fore-part; as, the Aind legs of a quadruped, the hind part of a body.

Hind, John Russell, P.B.S., an English astronomer, B. 1822. Mr. H., who is Foreign Sec. of the Royal Astronomical Society, is distinguished as the discoverer of 10 new planets, between the years 1847-1854, for which he received the gold medal of the society. In 1852, the English government conferred on him a pension of \$1,000 per annum "for important astronomical discoveries."

Hind berry, s. [O. Ger. Aindbeere.] An English provincialism for the RASPERERY, q. v.

Hinder, a. [comp. of Hind; Ger. hinder.] Posterior; that is in position contrary to that of the head or fore-part; in the rear; behind; following; as, the hinder part of a ship, the hinder feet of an animal.

Hinder, v. a. [A. S. hindrian; Du. hinderen; Ger. Aindern.] To keep back or behind, or prevent from moving forward by any means; to stop; to interrupt; to obstruct.

"Hinder me not, assing that the Lord hath preserved my way "

to obstruct.

to obstruct. " Hinder me not, seeing that the Lord hath prospered my way." Gen. xxiv. 58.

-To prevent the progress of, or to render slow in motion; to prevent; to check; to retard; to impede; to delay. "My tears must stop, for every drop, hinders needle and thread."

-To debar; to shut out; to thwart; to contravene "Toe much company Minders thought and wit from fixing." Te

e. n. To interpose obstacles or impediments.

Hin'derance, Hin'drance, n. Act of hindering, or of restraining or impeding motion. Impediment of

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obstruction; that which opposes or stops progression,

action, or locomotion.

Min'derer, a. The person who, or thing which, hinders.

Hind'ermost, Hind'most, a. [Superl. of hind;
Goth. hindsmists.] That is behind or in the rear of all others; the last.

Tis not his wont to be the hindmost man." - Shake.

"Tis not his wont to be the Madmost man." — Shaks.

Hindoem, (hand'o-en.) an island of the Loffoden group, on the Norwegian coast; extent, 50 m. by 30 m. It is noted as a famous fishing-station.

Hin'dom, a river of Hindostan, which rises in Maiwab, and after a N.E. course of 160 m., joins the Jumna, in Lat. 289 25' N., Lon. 77° 30' E.

Hin'doe, Hin'du, n.; pl. Hindoso or Hindus. [Hind. Hindusvi, from Hindustan, India.] A native of Hindostan or University of the Shandard of Hindostan or University.

Hin'doe, Hin'du, n.; pl. Hindos or Hindus. Hindus. from Hindusta, not India.

Hin doe Ar'ehitecture. The oldest buildings that remain as examples of the early architecture of India are considered by competent judges not to have been erected earlier than 300 years prior to the Christian era. Indian architecture may be broadly classified as Buddhist, Brahman, and Mohammedan, which three styles derive their names from the religion professed by the dominant power in India during the period in which each prevailed; Buddhism giving place to Brahmanism, and Brahmanism yielding in its turn to the Mohammedan form of worship, introduced by the Saracenic conquerors of India about 1000 a. D. There are many points in which the architecture of Hindostan bears a striking resemblance to that of Egypt, temples being found in both countries that have been hewn out of the solid rock, and ornamented with statues attached to piers or walls, which are remarkable for their size and colossal proportions. The chief, and, indeed, almost the only, remains of Buddhist architecture, with the exception of the topes, or structures built to contain relies of Buddha, are the cave temples found in southern India, the principal of which are the temples of Elephanta and Salsette, near Bombay; Behar, Cuttack, and those of Ellora and Carli, in the province of Aurungabad, (see ELLORA, and Fig. 934.) The temple of Elephanta is much larger than those of Ellora and Carli, and excavated in the side of a mountain. It is filled with rich and varied sculpture, consisting chiefly of colossal figures in alto relievo. The columns are composed of a fluted shaft swelling outwards in the middle, standing on a high square base, and surmounted by a bulb-shaped circular capital, which is one of the chief distinctive features of Indian architecture. The Buddhist rock-monasteries consist of a series of cells ranged round a central hall. They are not so richly ornamented with sculpture as the temples; but many of the chambers are decorated with paintings representing They are not so richly ornamented with sculpture as the temples; but many of the chambers are decorated with paintings representing events in the life of Buddha, and portraits of Buddha himself and Puddhist saints. The topes are generally in the form of circular buildings surmounted by a dome. They vary from 10 or 20 feet in diameter to 180 or 200 feet, and for the most part consist cf a solid cupola erected on a flat terrace reached by steps, with a relio-case called a law, or a square ornament in the shape of a box, intended to represent a relio-case, on the summit. A column called a ldt was placed in front of the Buddhist religious buildings, on which the Buddhist creed was inscribed. Some of the Buddhist temples in Ceylon, Burnah, and Java consist of a series of terraces rising above one another in a pyramidal form, with a relic of Buddha in Java consist of a series of terraces rising above one another in a pyramidal form, with a relic of Buddha in India, a sect known as the Jains, or Jainas, sprang up. The temples erected by the Jains were characterised by great elegance and lightness of structure, combined with richness of ornamentation. They consist of a central dome, surrounded by others more or less in number, supported on sculptured columns. The ceiling of the cupolas, which are hollow, and not solid like the domes of the topes erected by the Buddhista, are panelled and adorned with elaborately designed scroll-work and foliage. The temples of the followers of Brahms consist of an inner temple, or sanctuary, called the bimana. This is in the form of a four-sided pyramid, which rises to a great height, and is formed of a succession of steps or terraces, adorned with figures and sculpture, and crowned by a small dome. In this was flanked by a bigh wall. The entrance to this court warrounded by a bigh wall. The entrance to this court warrounded by a bigh wall. The entrance to this court surrounded by a bigh wall. The entrance to this court warrounded by a bigh wall. The entrance of the sculpton of the cel beyond the circle of the base, as well as the projecting galleries of the minarets and balcouies, supported on cantilevers of great length, are peculiar, and belong en-



Fig. 1290. — GOPURA,

(or gate leading into the inclosure of the temple at Seringham.)

tirely to the Mohammedan architecture of India. The mosques, and some of the tombs erected by the great Mohammedan sultans of India, afford the best examples of this style of architecture. Among these may be named the great mosque at Delhi, and the magnificent mausoleum (Fig. 56) bnilt by Shah Jehan, near Agra, about 1640, to the memory of one of his queens. In Fig. 1291 we give the design of a very interesting monument situated at about 11 m. S. of Delhi, in the middle of a wilderness of ruina, the called Khuttub (or Kutub) Minar. It is a round pillar, of 240 feet in height, the diameter at the base be in g. 35 feet, but gradually diminishing to less than 10 feet at the top. It is divided into five stories, the relative height of which decreases in the same ratio as the dimeter of the here. tirely to the Mohammedan architecture of India. The

same ratio as the di-ameter of the shaft. Each story has a heavy cornice of the richest sculpture, sur-mounted by a low stone balustrade. The mounted by a low stone balustrade. The three lower stories are entirely of red sandstone, fluted, or rather reeded with alternate divisions, and belted at short intervals by bands of Arabic inscriptions, sculptured in relief, and of colosal size. The two highest atories are mostly of white marble, without inscriptions, and deviate slightly from the diminishing slope of the pillar, whence it is generally supposed that they were added at a later period. The at a later period. The summit is reached by a winding staircase of



Fig. 1291. THE RHUTTUB MINAR. (Near Delhi.)

a winding staircase of 378 steps, which become very narrow as the diameter of the shaft diminishes towards the top. The K. is certainly the finestingle tower in the world, and the only one of its kind in India. Nothing positive is known concerning the date or design of its erection. Both the Hindoos and the Moelems claim it, the former alleging that the incriptions were subsequently added by the conquerors. From the singular manner in which the shaft is reeded, and from the absence of arrhee in the openings for at and from the absence of arches in the openings for air and light, Bayard Taylor (India, China, and Japan) thinks that the three lower stories are of Hindoo construction, while the appearance of the arch in the upper stories indicates that they have been added at a later paried.

stories indicates that they have been added at a later period.

Hin'dooisms, Hin'dnisms, a. The system of religious doctrines and social customs peculiar to those inhabitants of Hindostan who profess the worship of Brahma. One of the principal features in Hindosiam is the system of caste, which divides society into four orders. (See Caste.) The manners, customs, and laws of Hindoos are so intimately connected with their religion, that they can scarcely be described separately. The division into castes is a religious institution, which in-

cludes the whole detail and intercourse of life. The Brahmins, or the first of these castes, are the priests of their religion, which is a polytheism, or worship of many gods. The great vagueness of the Brahminical language with respect to the attributes of the gods, the long catalogue of fictions tacked on to their exploits, and the endless ramifications of sects, render any clear definition of the Hindoo religion very difficult. The code of Menu is one of the principal foundations of Hindoo faith, and is, besides, one of the few sacred documents out of which anything approaching to a precise idea of Hindooism can be extracted. Its date is given at about 600 s. c.; yet it yields in high antiquity to the Vodas, or sacred books of the Hindoos, the agres of which are stated at from eight to ten centuries before Christ. The code of Menu, however, has the advantage of being comparatively clearer than the older books, and is thus of more value to a modern student. All the sacred books of the Hindoos, although they inculcate the moral duties of justice, mercy, and benevolence, yet seem, like every system of false religion, to give the first place to the ceremonial law. The devotion of the Hindoos, consequently, consists in mere ontward observances, and is not inconsistent with the most disgraceful crimes. The great triad of the Hindoo divinity is composed of Brahma the Creator, Vishnu the Preserver, and Siva the Destroyer; while beneath this trinity lurks the incomprehensible Brahm. Hindoo adoration, for the present period, is reserved for the "Destroyer" and the "Preserver," Brahma having only one temple subsisting to his honor. The worship of this god ceased about the commencement of the Christians are. According to the Hindoos, the constant interposition of the delty is required to maintain a proper balance in earthly affairs. Vishnu the "Preserver" is represented in the sacred books as having passed through ten incarnations, called Aretare. The first is the avatar of the fish, when the world is described as being ance in earthly affairs. Vishnut the "Preserver" is represented in the sacred books as having passed through tea incarnations, called Aratars. The first is the avatar of the fish, when the world is described as being destroyed by a delugs. In the second avatar, Vishnu, issuing from the side of Brahma in the shape of a boar, grown in an hour as large as an elephant, and remains suspended in the air, while a malignant giant rolls up the earth and flings it down into an abyss. Vishnu, however, descends into the water, and brings up the earth again on his tusk, spreading it out "like a carpet on the face of the water." In the third avatar, Vishnu and Brahma churned the ocean like a "pot of milk." in search of the aspeared as a man with the head of a lion. In the fifth, sixth, and seventh, Vishnu goes through a course of adventures in seeking out impious and cruel king, and punishing them. In the eighth avatar, he appeared as the beautiful Krishna, the shape in which he is most frequently worshipped. The ninth avatar was the incarnation in the person of Buddha; while the tenth avatar is still to come. Vishnu is then expected to appear mounted on a white horse, with a scimitar blazing like a comet, to mow down all incorrigible offenders who shall be living on earth. As the Hindoos began by dividing the divine power among a triad of rival gods, they soon began to split up into sects, each sect holding its own god to be the only true one. The followers of Vishnu and Siva invented new symbols, sacribing each to their respective divinity the attribute of creation. This contention for superiority ended in the total suppression of the worship of Brahma, and the temporary submission of Vishnu to the superior Siva. This, however, did not last long, and crusades were raised by the sects against each other. All the Hindoos, however, believe in one mysterious pre-eminent power, which they contribute the gods. This absorption into the essence Brahm, which put an end to the transmigration of the son, and a favorite dynamics of in

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plate the scene from the surrounding banks, and applied the victim if he retains a steady and resolute countenance to the last. But for obtaining a full display of the Hindoo religion, and of the monstrous practices which it permits and encourages, it is necessary to behold it when crowds are gathered to celebrate its greatest festivals, among which is the Charak Pajah, annually celebrated in honor of Kali, Maha Kali, or Parvati, the wife of Siva. Owing to the savage character of Kali, and the numerous crimes of which she is regarded as the patrones, the Brahmins and more respectable native classes of Calcutta, keep aloof from an open participation in it, but at the same time show where their sympathies lie by contributing largely to the expense, and countenancing the proceedings by their presence as spectators. By the more zealous late the scene from the surrounding banks, and ap-

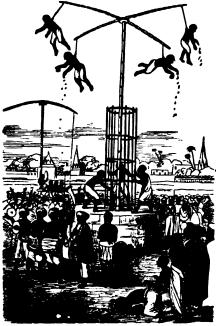


Fig. 1292. - CHABAK PUJAH. rk's "Wanderings of a Pilgrim." (From P

votaries a whole month before the festival, by others three days, are employed in initiatory ecremonies of purification and devotion. When the first day devoted to it arrives, an upright pole twenty to thirty feet in height is erected, and acroes its summit a horizontal beam is placed to move round on a pivot. From each end of the beam hangs a rope, the one loosely, and the other with two hooks attached to it. The performance now begins. A devotee coming forward prostrates himself, and is immediately fastened to the hooks, which, for this purpose, are run through the fleshy parts of his back near the shoulders. The end of the other rope is then seized by a number of persons, who commence running round with it at a rapid pace. This motion is of course communicated at once to the hooks, and the wretched devotee lifted up into the air is rope is then seized by a number of persons, who commence running round with it at a rapid pace. This motion is of course communicated at once to the hecks, and the wretched devotee lifted up into the air is swung round in agony. Were the ficsh to give way, the force with which he is whirled, as well as the height, would project him like a shot from a gun, and his death would be inevitable. The devotee by giving a signal may be relieved from peril and torture, but he is in no haste to give it, and usually remains suspended from ten minutes to half an hour, for strange to say, this is a religious service the merit of which is proportioned to the length of time the agony is endured! The moment he descends and is taken off the hooks, another steps forward to take his place, and the machine is kept wheeling till the day is far spent. In estimating the aggregate amount of suffering inflicted, it is necessary to remember that these horrid swings were not confined to the suburbs of Calcutta, where Kali's temple stands, but that in thousands of towns and villages throughout Bengal they were in simultaneous operation, torturing the infatuated devotees, while multitudes of spectators stood around gazing with applause and wonder.

Him dees, (Literature of the.) In common with their religious traditions and the invention of their alphabet, the literature of the Hindoos is of the highest antiquity. Nearly all the literary compositions of the Hindoos are in verse. "For history," says Mill, "they have only certain narrative poems, which depart from all resemblance to truth and nature, and have evidently no further connection with fact than the use of certain names and a few remote allusions. Their laws, like those of rude nations in general, are in verse. Their sacred books, and even their books of science, are in verse; and, what is more wonderful still, their dictionaries." Because men feel before they speculate, therefore is poetry, which is the earliest form of expressing the feelings, the first literature. At this primary

written in Sanskrit, (see Hirropera, Languagus or, ) as are the Masaras, or prayers, the Brahmanas, or commandments, and, in short, the whole body of the Hindoo theology proper. The Dyacedos form a second class of sacred books, and consist of treatises upon surgery, medicine, music, dancing, war, architecture, and many mechanical arts. The Vedengas, or Six Angas, are treatises subsidiary to the Vedas, and comprehend rules for reciting the Vedas, and cepecially as regards the secent and tones to be observed; a treatise on grammar; besides dissertations upon meters, astrology, and astronomy. These works are held to have been given by impiration of God to enable the Brahmins to read and understand the Vedas. Thus, we here perceive a double inspiration, that of the Vedas and that of the Angas, the latter forming the key by which the Vedas are opened. The Lyparga, or inferior bodies of learning, comprehend logic, theology, the institutes of the law, and certain legendary treatises, to the number of eighteen, which bear the name of Purasas. These are mainly mythological in character, giving the histories of the gods, often at great length, the Pedma Purasa, which is written in praise of the lotus, and gives the history of Lakshmi, the wife of the god Vishny, containing 55,500 stanzas. The Agrae Purasa, forms a sketch of all Hindoo science, in 15,600 stanzas, while others are devoted to descriptions of the ancient cities of Orises and Benares. The two great epic poems of India, the Ramagusac and the Michabharuta, are also classed among the sacrebe books. Of these the former, which is sacribed to a poet named Valmiki, best deserves the name of epic, it being confined to the adventurous career of Ramatshandra, King of Ayodya, and the 7th incarnation of Vishuu. The Makabharada details the wars of the Pundus and Kurus, and constitutes a great storehouse of Hindoo legend, three-fourths of the work being make up of long drawn out episodes. It embraces its books and more than 100,000 stanzas. Both these works contain finely Skakespeare"—ha also into German.

Him'dostam, or India Bast of the Ganges and Brahma-Pootra, as distinguished from India beyond the Ganges, POOTEA, as distinguished from INDIA BEYOND THE GARGES, or FURTHER INDIA, (in the European sense,) a vast region of S. Asia, in the form of a penisusia, having its apex projecting S. into the Indian Ocean, or in other words, comprising the whole of the great triangle of country extending from the borders of Little Thibet, in about the 35th deg. Of N. Lat., to Cape Comorin, or about the 8th deg. It is bounded on the N. by the highest range of mountains in the world, the Himalayas; by the two great rivers, the Indus and Brahmapootra on the N.W. and N.E.; and in every other direction by the ocean. The ancient inhabitants of India had no common name for themselves or their country; but their Persian neighbors called the people Himdoos, and the region, as far as they knew it, Himdootan; words which, in old English, would have been accurately as well as literally rendered Negro, and Negroland. The comprehensive sense in which the term "Hindostan" is now employed, as distinctive of the entire territory 8. of the Himalaya Mountaina, over which the institution of caste prevails, is of European crizin; the people of the country confining the term to the region lying N. of the Nerbudda, and calling all to the 8. of that river the Deccan (q. v.), a word derived from the Sanskrit, and meaning "the right hand," and also "the South." Area. H. comprises in all an area of about 1,250,000 sq. m., or about a third part of the estimated area of Europe; but from the absence of guifs, inland seas, and lakes, the proportion of solid land is greater. — Phit. Div. This immense country, under the popular designation of Bartes I NDIA, embraces eight great provinces, viz.: Besgol, Madrea, and Bombay; the Central Provinces; the North-West Provinces, and Ouds; Burmah, Assam; and the Panjab. These again are subdivided into inferior territorial jurisdictions, and also include a number of quasi-independent states, under the political supremacy and protection of the English govt. —Gen. Desc. The coast outline of H. is comparatively little broken by any considerable inlet of the sea. From the mouths of the Indus to the delta of the Ganges there are but three great guiffs, those of Outch, Cambay, and Bengai,—if the latter, indeed, which, though it breaks the coast of Asia, does not break that of Hindostan, can be considered in this class. Harbors are even less frequent; along the W. coast, over 14° of Lat., there is but a single good one. Bombay; and from Cape Comorin to the W. mouth of the Ganges, a distance of 1,500 m., there is not one. The Indian coasts are also in a great measure destitute of islands. Unless Ceylon (2. ob) admitted as belonging to H, which can hardly be done, there is not one on the E. coast; and on the W. there are very few, and those of inconsiderable size. The natural geographical divisions of H. are as follows:

1. The range of the Himalayas with their valleys. 2. The Gangetic plain, to the Ganges, from the prov. hensive sense in which the term " Hindostan " is now name of H., will be found amply detailed under their own separate and distinctive heads in this work.)—
Mountains. The principal mauntain-chains are those of the Himalayas, the Vindhyan range, and the W. and E. Ghauta, (all of which see.)—Rivers. H. possesses some of the largest rivers in the world, as the Ganges, Indus, Brahmapootra, Jumma, Goomtee, Godavery, Nerbudda, &c.—Lakes. Few lakes of any size are found in this country; the most considerable is that of the Runn, lying between the Guilf of Cutch and the delta of the Indus, which is believed to occupy a space of 5,000 aquare miles.—Climate. In a country which embraces 2l degrees of lat., which contains extensive plateaux, some of the largest plains in the world, almost on a level with, or but a few hundred feet above the sea—the highest range of mountains (Himalayas) in the world—tracts of bare rock.—deserts of deep sand, and dense primeval forests.—it is needless to say that there must exist a very great diversity of climate. But besides the great difference arising from these causes, the distribuprimeval forests.—It is needlest to say that there must exist a very great diversity of climate. But besides the great difference arising from these causes, the distribution of rain is another source. The whole continent of H. up to the 35th degree of Lat., is subject to the influence of the monsoons, which blow from the N.E. during the temperate winter months, and from the S.W. during the tempestuous and hot or rainy months of summer and autum. This is the general rule: but in India, as in other Asiatic countries under the influence of the monsoons, and where are mountain ranges running N. and S. of sufficient elevation to intercept the clouds, the time of the periodical fall of rain is reversed. To the W. of the great chain of the W. Ghauts, on the one hand, over 10 of Lat., the periodical rain-fall corresponds with that of other parts of India, or takes place during the W. monsoon. E. of the Ghauts, on the other hand, over 80 of Lat., the fall of rain takes place during the E. monsoon; while the table-land which lies beyond the two ranges partakes, to a moderate degree, in both falls. As a general rule, the year is divided in India

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shot three well-defined seasons: a hot, corresponding with part of spring and summer; a seet, agreeing with part of summer and autum; and a cold, corresponding generally with our winter months. With respect temperatures, much of H. being between the tropics, and the remaining portion within 12° of the tropic, the whole is entitled to the designation of a hot country. The mean temp, at Bombay is \$2° Fahr; at Madras \$4°; and at Calculta 10° Fahr. In summer the mean temp, is from 10° to 110° — Geol., dc. The geological formation of India may be summed up as extremely simple, compared with that of other, and more temperate countries, consisting only of 4 classes of rocks, vis., the granific, the academic and clay-slate, the trap, and the alluvial. — Bris. Coal underlies a large area of surface, and is being extensively worked; iron, copper, gold, diamonds, rubles, and other gems are also found. — Zolf. The elephant, rhinoceros, bear, hyzena, and man-eating and other tigers, have their habitas in the mountain deflies, and jungles. Birds of the most varied brilliancy of plumage are met with innumerably. The reptile genus is represented by the python, cobra-di-capello, and other deadly serpenta, alligators, lizards, et ic de similibus. — Ethnology. There are at present spoken in India, by the most civilized races, not less than 25 distinct languages or dislects, indicating the existence of as many distinct nations; but, including tribes more or less savage and barbarous, at least 50 languages, demonstrating the presence of at least as many distinct tribes. Of the more civilized nations 8 may be said to be distinguished from the rest by some superiority of civilization, as implied in the posession of a national alphabet, a national literature, superior population and consequent industry, a greater progress in the useful arts, with the richer and more extensive territory which they are found to occupy. These are the Bengalee, Oorlya. Mahratta, Gujrates, Polinga, Tamul, Karnata, and Hindu or Hindostanee nations. The Beng cording to the fears, hopes, or caprices of their vota-ries. The Hindoos, however, really attach less impor-tance to doctrinal matters, than to distinctions of caste, tance to doctrinal matters, than to distinctions of caste, funeral and marriage ceremonies, and the whimsical observances respecting supposed purity and impurity in regard to food, and other matters of ordinary domestic life. The distinctions of caste are the most remarkable of these, and form indeed the characteristic feature of Hindoo society. Every one has heard that the Hindoos are divided into four great classes or castes; that is, into priests, soldiers, traders, and laborers. (See Caste, Braimaism, Buddhism, Hindoo Religion, &c.) The Momenteed fifth herean to make some impression ou India hammedan faith began to make some impression on India about the opening of the 11th century, and the descendants of foreign settlers, or the converted nations of this persuasion, are at present believed, for all India, to

number one-seventh of the population. The Christians are principally found in the 8. part of the peninsula; the greater number are Nestorians, who are supposed to have embraced Christianity through the labors of Greek missionaries from Syria, as early as the 2d and 3d centuries of the Christian sera. Most of the remainder are Roman Catholica, the descendants of Portuguese, or persons converted by European missionaries.—Industry, Arts, and Massyf. The arts in which the Hindoochave made the greatest progress are agriculture, wearing, dyeing, and architecture. The ox, buffallo, horse, ass, elephant, dog, hog, sheep, and goat have been domesticated, and used by this people from the earliest antiquity. The camel, probably, has been equally long known in Upper H. The more common kinds of poultry are also of equal antiquity among the Hindooc; and are supposed, and apparently with good reason, to have spread from them to the W. world. The buffalo and ox only are used for agricultural purposes; the horse generally posed, and apparently with good reason, to have spread from them to the W. world. The buffalo and ox only are used for agricultural purposes; the horse generally for war or pleasure, only now and then for burden; the elephant for pleasure or burden; the camel and ass (with few exceptions) for pleasure only. With the exception of the horse, camel, sheep, and goat, every one of the animals above enumerated are still found in many parts of India in the wild state. The agricultural implements used by the natives are simple and rude, and the process of application is equally uncouth. The greatest exercise of Hindoo skill and labor is displayed in works of irrigation; and the reader will not be surprised at this, when he understands that through means of origation the produce of the land is, according to circumstances, always multiplied five-fold, and often as much as ten. The works for this purpose comprise immense embankments, reservoirs or tanks, and wells. The delta of the Ganges, and the celebrated mound of the Cavery in S. India, afford examples of the first description of works; reservoirs, or tanks, are sometimes of vast extent, and capable of converting 4,000 or 5,000 acres of what is often a bare desert of sand into productive grain-fields; these are most frequent in S. India. Wells, which are often sunk to the depth of between 200 and 300 feet, chiefly irrigate the upper portion of the farmers waller. The articles of worders cultivated by scription of works; reservoirs, or tanks, are sometimes of vast extent, and capable of converting 4,000 or 5,000 acres of what is often a bare desert of sand into productive grain-fields; these are most frequent in S. India. Wells, which are often sunk to the depth of between 200 and 300 feet, chiefdy irrigate the upper portion of the Ganges valley. The articles of produce cultivated by the Hindoo peoples from remote antiquity are, wheat, barley, rice, millet, pulse, the sugar-cane, sesame, mustard, the cocoa, areca, and other palms; ginger, and various kinds of spices, cotton, hemp, the mulberry, indigo, madder, the mango, and the banana. From the Moslems they received the vine, fig. apple, peach, and pear; the pomegranate, limes, and oranges; the carrot, onion, and melon, with the opium poppy. From Europeans they have received maize, cats, common potatoes; the batata, or sweet potato, the capsicum, guara, and pine-apple, by way of America; the shaddock from Juva, the lichi from China; and most of the common pot-herted direct from Europe. The sugar-cane is most probably a native of H., and the art of manufacturing coarse sugar from it is traced by the etymology of the word gour to Bengal. The art of granulating sugar, and separating it from the molasses, was probably brought into India from China, as the name of the commodity Chini would seem to imply. The art of candying or crystallizing sugar, the only mode of refining practised in the East, was taught the Hindoos by the Mohammedans. The Hindoos had made a far greater progress in the art of weaving than in any other; materials for this process they may be considered, in ancient times, to have poseesed nearly a monopoly of, viz, cotton, silk, and the hair of the Thibetian goat. With the exception of silk, which they had in common with China, India may be considered as the native country both of the material, and the manufacture of the fabric varies everywhere with the quality of the plant, with a staple remarkable for fineness and beauty, not found anywhere e

19,677 were open to traffic. The gross earnings were about \$65,000,000 and the net revenue \$35,000,000, giving a return of 5.78 per cent on the invested capital. Of the roads in operation, about 14,000 miles belonged to 19,677 were open to trame. The gross earnings were about \$85,000,000 and the net revenue \$35,000,000 and the net revenue \$35,000,000 and the net revenue \$35,000,000 and the net revenue \$35,000,000. The government telegraph lines had a length of 44,468 miles, with 138,256 miles of wire. The number of paid dispatches forwarded during the year was 4,391,226. The telephone has also been widely introduced.—Gost and Fisance. The executive authority in H. is vested in a Governor-General, or viceroy, appointed by the English Crown, and acting under the orders of the Secretary of State for India, assisted by a Council of State of 15 members, of whom 7 are elected by the Council of Directors of the East India Company, and 8 are nominated by the Crown. The government in India is exercised by the Council of the Governor-General, consisting (nasully) of 7 members appointed by the English Secretary of State. The ministry, divided into the several departments of Foreign Affairs, Finances, the Interior, Military Administration, and Public Works, do not form part of the Council. The Anglo-Indian army in 1866–97 numbered 227,758 men. Financial statistics reported by the Indian budget for 1896 estimated the revenue for that year at \$25,785; while the public debt stood at \$645,948,915 (gold values).—Chief cities, Calcutta (present capital), Bombay, Madras, 18-lhi (ancient capital); Lahore, Benares, Lucknow, Agra, Allahabad, Peshawur, Hyderalad, Cashmere, Poonals, &c.—Population of British India in 1896, 221,172,872, excluding the native states, whose population at the same time was estimated at 66,050,479.—History. The read history of H. Commences with the first Josiem invasion, A. D. 1000, between 13 and 14 centuries after the incursion of Alexander the Great. Mahmond, sovereign of Ghusnee, in Afghanistan, pushed his conquests as far as Bundelcand and Gujerat. India was at this time divided among many independent monarcies, most of them petty once; and the resistance made to the conquest as far as Bundelcand and Gujerat. India wa invaded by Baber (q. v.), who defeated and killed the last Afghan monarch, and seated himself on the vacant throne, thus establishing the line of princes known as the Mopuls. The empire of the latter was consolidated under Aurungzebe (q. v.), in whose reign its power culminated. After his death, in 1707, the Mogul dynasty began to decline; and after an attempt made by the French to establish a great Indian sovereignty, the foundations of a vast political power were laid between 1750 and 1765, by the greater resources and superformaritime strength of the English, and especially by the extraordinary military genius and enterprise of Lord Clive, (q. v.) Since then, the history of H. presents a succession of victories by British arms, directed by able statesmen and executed by generals of the stamp of Wellington, Cornwallis, Lake, Napier, Gough, Hardinge, Lawrence, and Clyde. See the articles on the several States, &c., of India. in this work. By the disastrons tidal wave of Oct. 1876, thousands of lives were lost and millions of property destroyed. India has suffered repeatedly by famine, that of 1897, the fifteenth of this century. Pestilence also produced its devastations in 1897, a plague bycaking out in the city of Bombay which caused terrible ravages among the crowded native population of that city. See Busonic Placux and Bacteriology.

Hindostam'ee, Hindostam's, o. Pertaining or having reference to the Hindoss or to their language.

caused terrible ravages among the crowded native population of that city. See Busonic Placue and Backeriology.

Hindostam'ee. Hindostam's. a. Pertaining or having reference to the Hindoss, or to their language.

—n. The language spoken by the Hindoss of India.

Hindostam (Languages of.) A survey of the languages, no less than of the antiquities and the religious systems, which prevail in India, would seem to afford a sufficient proof that its inhabitants are a primitive people, and that its territory is truly Medyawa. Medhyspology of this strange and wildly magnificent country is due to the labors of the missionary Henry Roth, and the Jesuit Hanzelbein, and since 1790 to the more searching investigations of Paolino, Sir Wm. Jones, Wilkins, Forster, Carey, Marshman, Wilson, Colebrooke, Marsden, Bopp, and others. Following Colebrooke, Marsden, Bopp, and others. Following Colebrooke, Marsden, Hindoo treatise upon rhetoric as his guide, we find there are 4 principal languages—Sanstrii, Praixii, Praixii, Praixii, or Apadhransa, and Magadhi or Mirra, the Apadhransa and Magadhi or mirra, the Apadhransa and Magadhi or mirra, the the Magadhi. This is the opinion of the last-quoted author; but other English critics maintain that this statement requires considerable qualification. 1. The Sanskrii, known also as Gronthon (from graudha, book), is the sacred language of the Brahmins and of literature. Now a dead language, there is strong pressurptive evidence that it was once a spoken tongue. Singularly copious, and perfect in construction to a degree, its alphabet, consisting of 50 letters, is termed Derassgari (the divine alphabet), on account of its supposed origin with the gods, whose languages its its has 3 genders, a dual like the Greek, conjugations numbered according to the vowel or consonant endings, 7 cases

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after nouns instead of pronouns, and an abundance of particles. The period of its highest perfection was in the last century preceding the Christian zera, when the great poet Calydos flourished, the author of Sakoontalah (the Patal Ring), and of the Magha-Data (the Cloud Messenger). In the Sanskrit, also, are written the old sacrest of Lancaster co., about 40 m. E.S.E. of Harriaburg. Serial Rings and of the Vedas. The founder of the Sanskrit gramburg. books of the Vedas. The founder of the Sanskrit grammar is Pannini, the supposed author of the Sutras, or short grammatical precepts. His system was improved by Catugayana, in a work called Mahabharia, which again was amended by Caiyata. Perhaps the most celebrated of the later works upon the grammar of the Sanskrit tongue are the Carica Vritti, and the commen-Sanskrit tongue are the Casica Vritti, and the commentary upon it by Haradatta Misra, entitled Pudamanjuri. Among the best modern grammars are those of Colebrooke and Wilkins. Coming to dictionaries of the Sanskrit, we find the Amara Cosha, or the Treasure of Amara Singh, a writer who flourished anterior to the Christian ærs, the Visuapracasa of Mahaewara, and the Haravali of Purushottama. By English authors, we possess the Dictionary in Sanskrit and English Pictionary printed at Calcutta in 1846, the Elementary Introduction to the Sanskrit Language by Monier Williams, &c. The learned Sir Wm. Jones established in 1868 at Calcutta a printing-office for the production of Sanskrit works; and to sir wm. Jones established in 1803 at Calcutta a print-ing-office for the production of Sanskrit works; and to this great Oriental scholar we owe the comparatively deep acquaintance we possess of the Sanskrit—a lan-guage that would be important for the literary treasures of which it is the storehouse, but which becomes in the highest degree valuable when we reflect that it contains highest degree valuable when we reflect that it contains the fundamental sounds of all the European languages. (See art. ARYAN LANGUAGES.) II. The Prairit is the common language, and comprehends within itself the various dialects used in writing and in social intercourse. Colebrooke mentions 10; but to these should be added the Punjabee and the Brija Bhasba. The 5 following the Iranjabee and the Brija Bhasba. The 5 following dialects constitute the languages of N. and E. Hindostan:—1. The Sareswata, spoken by the people who dwell upon the river of this name, a stream flowing through the Punjab. It is a language rich in dramas and poeusa. 2. The Kanyacubia, which appears to be the purent of the modern Hindostance, interlarded with the purent of the modern Hindostance, interlarded with Persian and Arabic words. 3. The Bengales, a dialect principally spoken in E. Hindostan. It is rich in translations from the Sanskrit, and forms almost exclusively the language of the learned Hindos. It alphabet is a close copy of the Devanagari. 4. The Mititate or Tirhoot is the chief language of Mitillaw, or the circle of Tirhoot, and the neighboring districts lying between the rivers Cusi and Gundhae, and the mountains of Newayl 5. The dislate of Origina Called Compiler. the rivers Cusi and Gundhae, and the mountains of Nepaul. 5. The dislect of Orissa, called Coriya. The 5 following form the languages of the southern extremity of the Deccau, of the Mahrattas, of the people inhabiting the middle of the Mayorean plateau, of the inhabiting the middle of the Mysorean plateau, of the inhabitants of the tract of country lying between the Krishna River and the Godavery, and of the Gujeratese. They are named respectively the Drurida, the Maharashtra or Mahratta, the Karnata, the Thinga, and the Gurjara or Gujerate. III. The Patakes or Apadhrana has been presumed to be a mixture of the dislect of mountaineers and the Sanskrit. It is never alluded to in dramatic writings, except to serve as a subject for ridicule. IV. The Magadhi or Mirra, presumed to be analogous with the Pali and Magadhi of the Cingalese, is the language of the priests of Buddha. In common with the Chinese, the foundation of this series of dislects is monosyllable. Broadly speaking, it may be said to comprehend all the the foundation of this series of dialects is monosyllabic.

Broadly speaking, it may be said to comprehend all the
various dialects spoken by the peoples inhabiting the
coasts and islands lying between India and China.

Hinds, in Mississippi, a S.W. central co.; area, about
870 sq. m. Risers. Big Black and Pearl rivers. Surface,
level; soil, fertile. Cap. Raymond. Pop. (1890) 39.279.

Hinds, by the Mississippi, a post-village of Douglas co,
on T. H. & I. R. R.

Hands, the Mississippi and the said pearl rivers. Surface,
on T. H. & I. R. R.

on T. H. & I. K. E.

Hinds'burg, in New York, a post-village of Orleans
on, about 28 miles W. of Rochester.

Hin'er's Rum, in Pennsylvania (now HYNKE), a post-

Hain'er's Kum, in Prinspicona (now HYNE), a postoffice of Clinton co.

Hines'berg, in Wisconsin, a village of Fond du Lac co.

Pop. (180) 1,205.

Hines'ville, in Georpia, a post-village, cap. of Liberty
co., about 40 m. 8. W. of Savannah.

co, about 40 m. S.W. Of Savannah.

Hinge, (hin), n. (Dan. hampel, a hinge, from hampe,
to hang. See Hang.] The hook or joint on which a
door, gate, &c., hangs and turns. — That on which anything turns, hangs, or takes issue from; a ruling point;
a deciding principle.

ge, nor loop, to hang a doubt on." - Sh One of the four cardinal points, east, west, north, or eouth

se moon is in the hings at East." - Ore

To be off the hinges, to be in a state of confusion, irre-gularity, or disorder. (Used as a figurative colloquialism.) The man's spirit is out of order, and of the hinges." -

The man's spirit is one of order, and of the hinges."—Tilloteon.

(Chnch.) The part where the valves of a bivalve shell are united, consisting of ligament and teeth.

---. a. To furnish with hinges; as, to hinge a door.

---. s. To turn, stand, or hang, as upon a hinge; to rely upon as a decisive point; — generally before on or upon; as, the argument hinges on the application of this principle.

**Hinged**, (hinid,) a. Supplied or fitted with hinges

Hinged, (hind.) a. Supplied or fitted with hinges; as, a hinged gate.

Hing harm, in Massachusetts, a post-town and township of Plymouth co, on Massachusetts Bay and N. Y., N. H. & H. R. R., 12 miles S. of Boston. Pop. (1895) 4,819.

Hingham, in Wisconsis, a post-vill. of Sheboygan co.

HIM'mansvalue, in New York, a post-v. of Oswego co. Him'mom. See Greena.

Him'my, s. [Lat. himses; Gr. himses or ginnes, a mule.]

The hybrid produced between a horse and a she-ass. It is smaller than a mule, but the body is more bulky in proportion to the legs, and its strength is inferior. It is rare and less valuable than the mule, although it is more death.

An appellation given in fondness: a corruption

hones.

Hinejess (hin-o-ho'ss!), a town of Spain, prov. Cordova, 38 m. from the city of Cordova. Mansf. Woollens. Pop. (1885) 8,500.

Hims'dale, in Illinois, a post-village of Du Page co.

Him'dale, in Illinoia, a post-village of Du Page co.
 Hinsdale, in Massochusetta, a post-town of Berkahirs co., about 143 m. W. N. of Buston. Pop. (1897) abt. 1,300.
 Hinsdale, in Montana, a post-office of Vailey co.
 Hinsdale, in New Hampshire, a post-town of Cheshire co., on the Connecticut river, about 60 m. W.S.W. of Concord. Pop. (1899) 2,258.
 Hinsdale, in New York, a post-town and township of Cattaraugus co., on Eric and W. N. Y. & P. railroads, about 52 miles S. S. E. of Buffalo. Pop. of township (1890) 1,312.
 Hin'some, in Georgia, a post-office of Coffee co.

(1890) 1.312.

Him'som, in Georgia, a post-office of Coffee co.

Himt, v. a. [Etymol. uncertain; probably allied to

Dan. vink, a sign, signal.] To bring to mind by a slight
mention or a remote allusion; to allude to; to saggest; to intimate; to insinuate; to imply; as, to hint a suspicion.

v. n. To mention slightly or indirectly; to allude to

to refer to; to glance at; to touch upon suggestively "To kint pure thought, and warn the favour'd soul."—Thomse

To hint at, to allude to indirectly; to make a cursor; suggestion. n. An indistinct allusion; a slight mention, intimation

insinuation, or suggestion.
"Upon this kint I spake."—Shake.

Hint'ingly, adv. In a hinting manner; allusively;

Him tem, in Michigan, a township of Mecosta co., abt. 24 m. N. of Greenville.

Hip, n. (A. S. hype, hype, Goth, hups; Ger. hifts.

The protuberant or projecting part of an animal, formed by the haunch-bone and the flesh upon it; the haunch the joint of the thigh. See Hip-John.

(Arch.) The external angle formed by the meeting of the along a size of the along a siz

of the sloping sides of roofs, which have their wall-plates run-ning in different directions.

rections.

To have on the hip, to have the advantage. (A vulgar colloquialism, supposed to take its derivation from the haunch or hip of a deer, being the part commonly seized by the dogs when overtaken in when overtaken in

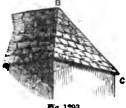


Fig. 1293.

hunting.)
-v. a. To sprain or dis- THE ANGLES A B; B C ARE THE HIPS

locate the hip.

Hip, interj. (Allied to hoop.) An exclamation used in calling; a signal for cheering; as, Hip, hip, hurrah!

Hip, n. (A. S. hiop, heop; O. Ger. huifo, a kind of thorn.) (Bot.) The fruit of the dog-rose, or wild brier. ' The oak bears masts, the briars scarlet Aips." - Shaks

Hip, Hipped, Hip'pish. See HTP, HTPPED, HTP-

Piss.

Hip-hap, n. A cant term formed by the reduplication of Hap, q. v.

Hip-joint, n. (Anat.) One of the most important articulations in the body, and the most complete example of the ball and socket-joint. The hip-joint is made up of two bones,—the acetabulum, or cup-like cavity in the os innominatum, or three bones forming one-half of the pelvis; and the head of the femur, or thigh-bone, the same provision being made here, by capsular, conical, transverse, and lateral ligaments, to sular, conical, transverse, and interal ligaments to se cure the bone in its socket, and yet afford unlimited play to the limb: while, to guard it from blows and the force of accidents, the part is padded with a number of short, fleshy muscles, in addition to which a quantity short, fleshy muscles, in addition to which a quantity of adipose tissue beneath the cuticle still further pro-

of adipose tissue beneath the cuticle still further protects the part.

Hip'-kmob, (noh.) n. (Arch.) A pinnacle, finial, or other similar ornament, placed on the apex of the hips of a roof or the point of a galle.

Hip'-moulding, n. (Arch.) A moulding placed on the beam which forms the hip of a roof.

Hip'pace, n. [Lat.] Cheese made of mare's milk.—
The rennet of a colt.

Hippar'chia, n. (Zool.) See Satyrida.

Hippar'chia, the most eminent among the ancient astronomers, was a native of Nice. in Bithynia, and flourished about a century and a half before the Christian æra. He resided some time in the island of Rhodes, whence he has derived the appellation of Rhodius; but whence he has derived the appellation of Rhodius; but whence he has derived the apprintion of zeroaries, our he afterwards went to Alexandria, at that time the great school of science. He has been styled the patriarch of astronomy, and was certainly the first who treated the sublime science in a philosophic manner. He discov-

ered the precession of the equinoxes, calculated the eclipses, determined the revolutions and mean motions of the planets, invented the storeographic method of projection, numbered and catalogued the fixed stars, and, in short, by his labors were laid the solid foundations of geographical and trigonometrical science.

Hipped-roof, (hipf-roof,) n. (Arch.) See Hir-Roof.

Hipped-roof, (hipf-roof,) n. (Arch.) See Hir-Roof.

Hipped-roof, while the seed of England, in the West Riding of Yorkshire, 2½ m. from Halifax.

Hippins, prince of Athens, was the son of Pisistratus, at whose death he assumed the government, in conjunction with his brother Hipparchus; but the latter being assassinated by a band of conspirators, while conducting a solemu procession to the temple of Minerva, H. immediately seized the reins of government, and revenged the death of his brother by putting to death all of whom he entertained the least suspicion. His tyranny at last became so obnoxious to the citizens, that he was expelled from the city a.c. 510. He afterwards found means to induce Darius to apply to the Athenians in his favor; and their decisive refusal kindled the first war of the Persians against the European Greeks. According to some authorities the fate of Hippins was decided on the field of Marathon, where he fell on that memorable day, fighting against his countrymen, E. C. 490.

Hippocampl, (Major and Minor.) [Lat. pl. of hipporymen, B. C. 490.

trymen, B. C. 490.

\*\*Hip'po-cample, (Major and Minor.) [Lat. pl. of hippo-cample.] (Anal.) The large and small sea-horse,—the name of two processes in the ventricles of the brain, so called from their fanciful resemblance to the hippo-

campus.

#H\$p'pocampus, n. [Lat., from Gr. hippokampos—
hippos, a horse, and kamptein, to bend.] (Zool.) The Sechorse, a genus
of Lophobranchiate fish of a

highly singular appearance. The species H. Hudsonius (Decay) of the Atlantic coast of the U. States (fig. 1292), is 6 inches long; body much compressed, short, and deep; the whole length of the body and tail divided by lon-gitudinal and transverse ridg-es; snout-head-ed; neck con-



ed; neck contracting and denly beyond the head; and the tail long, quadrangular, and terminating in a naked or finless tip. When swimming about, the H. maintains a vertical position; but the tail is ready to grasp whatever it meets in the water, and when fixed, the animal darts at its prey with great dexterity. In its dry or contracted state the fancied resemblance from which this fish takes its name is far more apparent than when alive.

state the funcied resemblance from which this fish takes its name is far more apparent than when alive. **Hippocasta'ness**, n. (Bot.) A sub-order of plants, order *Expindacea*. They are characterized by laving leaves opposite; ovules, 2 in each cell, one ascending and the other suspended; embryo curved with great fleshy consolidated cotyledons.

consolidated cotyledons.

Hispocen'tanr, n. [Gr. hippokentauros.] (Nyth.)

Same as CENTAUR, q. v.

Hispoceras, n. [N. Lat. vinum Hippocraticum, wine of Hippocrates.] A spiced beverage, held in great exteen by the monks in the Middle Ages as a warm and grateful cordial and stimulant in cases of cold, and also as a beverage in winter nights, and for the aged and relaxed. The anical hippocras are transmitted. grateful cordial and stimulant in cases of cold, and also as a beverage in winter nights, and for the aged and relaxed. The spiced hippocras, as it was called, was made differently by different nations and persons; in general, however, it consisted of cinnamon, cloves, nutmegs, mace, ginger, grains of paradise, and canella bark, bruised and macerated for seven days in Canary wine (Madeira), and then sweetched either with hones or sugar strained and taken warm. The "ypocras," for lords and abbots were somewhat more notent, and

for lords and abbots were somewhat more potent, and was prepared with aqua vite, or brandy, pepper, ginger, cloves, grains of paradise, ambergris, and musk.

Hippocratea ceæ. (Bot.) A small order of plants, alliance Rhamnales, not represented in N. America. They are shrubs with opposite simple leaves and small deciduous stipules. Flowers small, regular, and unsupported and parties hypograpus and incommendation. decidoous stipules. Flowers small, regular, and unsymmetrical. Sepals and petals 5, hypogynous and instricated, the former persistent. Stamens 3, hypogynous and monadelphous; the anthers with transverse dehiscence. Ovary 3-celled, with a single style. Fruit baccate, or consisting of 3 samaroid carpels. Seeds definite, exalbuminous; embryo straight; radicle inferior. The plants of this order abound principally in South America; some are found in Africa and the East Indies. Some have edible fruits as the species of Tomalea, found in Result and Starry Leone. Himpografice company yields in Brazil and Sierra Leone. Hippocratea comosa yields oily and sweet nuts.

oily and sweet nuts.

Hippocrates, (hip-pāk'ra-tēs.) the greatest physician of ancient times, usually designated the "Father of Medicine," was a native of Cos, an island of the Ægean. He was one of the family or caste of the Ascleplaise, the reputed descendants of the mythical Æsculapius, and was born about B. C. 460. He was thus the contemporary of Socrates and Plato, and began to be illustrious during the Peloponnesian war. He was educated by his father Heraclides and by Harodicus, and it is

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said that he also became a pupil of the sophist Georgias and the philosopher Democritus. He travelled extensively, and at length settled in Thessaly, and died at Larissa at an advanced age. Many fables were circulated respecting him in later times, and many works were attributed to him which he did not write. Among his genuine writings are the Prognosticon, Aphorisms; the Books on Epidemics, On Diet in Acute Discases; On Air, Water, and Place, and On Wossads of the Head. H. is distinguished for his remarkable skill in diagnosis, and his accurate and vivid description of morbid symptoms. He was one of the first to insist on the importance of diet in cases of disease; appears to have practised auscultation and taught the doctrine of "critical days." His works were held in extraordinary honor, and were the subject of commentaries by Celsus, Galen, and other eminent writers. He wrote, like Herodotus, in the Ionic dialect, though Cos was a Dorian colony; in the Ionic dialect, though Cos was a Dorian colony; and his style is remarkable for condensation. Many striking sayings are scattered through his works which have passed into familiar use.

Hippocratical case. (Acc.)

Hippocratic face. (Med.) The change produced in the countenance by the approach of death; the eyes are sunk; the temples hollow; the nose sharpened; the forehead dry, tense, and harsh; the complexion sallow, livid, or black; the lips cold, placid, and pale, or of a leaden hue;—so called from having been first described by Hippocrates.

Hippocratisma, n. The medical system propounded by Hippocrates.

Hippoc'ratism, s. The medical system propounded

Hippoc'ratism, n. The medical system propounded by Hippocrates.

Hip'pocrates.

Gr. hippokröne, a horse-fountain.]

(Ayth.) A fountain at the foot of Mount Helicon, in Greece, supposed to have been produced when the horse Pegasus struck his foot against the mountain. It was regarded with peculiar veneration, as it was believed to be a favorite haunt of the Muses, and was looked upon as one of the chief sources whence the poets drew their insantration.

Hippocrep'iform, a. [Gr. hippos, a horse, krēpis, boot, and forma, shape.] (Bot.) Having the form or shape of a horse-shoe.

snape of a norse-snoe.

Hippoda's mina, a daughter of Gnomaus, king of Pisa, in Elia, married Pelops, son of Tantalus. Her father, according to an oracle, refused to marry her except to one who could overcome him in a chariot-race. As the one who could overcome him in a chariot-race. As the beauty of H. was celebrated, many accepted her father's conditions. Thirteen had already been conquered, and laid down their lives, when Pelops came from Lydia. He previously bribed Myrtilus, the charioteer of Cknomaus, and insured himself the victory. Gnomaus, mounted on a broken charlot, was killed in the course, and Pelops married H., who became mother of Atreus and Threstes. and Thyestes.

and Thyestes.

Hip'podrome, n. [Gr. hippus, a horse, and dromos, a race-course.] (Arch.) A place appropriated by the Greeks to the equestrian exercises, and in which prizes were contended for during the celebration of some of the Olympic games. (See Games.) The most remarkable of all the Grecian H. was certainly that built at Olympia, which is stated by Pausanias to have been four leagues long and one in breadth. The one at Constantinople still remains, and may well create a feeling of astonishment in the minds of travellers, as it usually does. This latter was built in imitation of the grand circus at Rome, and was adorned with statues, both of marble and bronze; among the most important of which,

astonishment in the minds of travellers, as it usually does. This latter was built in imitation of the grand circus at Rome, and was adorned with statues, both of marbie and bronze; among the most important of which, it may be stated, were the fine bronze horses of Lysippus, possessed by Venice, which formerly ornamented the H. of Constantinople. The word itself is still in use, and is, even now, applied to circuses and other buildings set apart for equestrian purposes.

Hippogriff, Hippogrypha, n. [It. ippogrife, from Gr. hippoa, horse, and gryps, griffin.] (Myth.) A fabulous animal, represented as a winged horse, with the head of dragon or griffin.

Hippol'yte, (Myth.) a queen of the Amazons, given in marriage to Theseus by Hercules, who had conquered her, and taken away her griffel by order of Eurystheus. She had a son by Theseus, called Hippolytus.

Hippol'ytus, (Myth.) a son of Theseus and Hippolyte, famous for his continence. His step-mother, Phædra, fell in love with him, and when he refused to pollute his father's bed, she accused him of offering violence to her person before Theseus, who, believing the accusation, entreated Neptune to punish his son. H. fied from the resentment of his father, and, as he pursued his way along the seashore, his horses were so frightened at the noise of sea-calves, which Neptune had purposely sent there, that they ran about the rocks till his chariot was broken, and his body torn to pieces. Upon this myth, Buripides founded his play entitled Hippolytus.

Hippol'ytus, (St.,) bishop of Portus, (Rome,) near Ostea, and a father of the Church, flourished in the 3d century; was chiefly remarkable as the presumed author of a work on Herseise, hitherto attributed to Origen. The Chevaller Bunsen, a few years since, wrote a work called "Hippolytus," in which, while giving the arguments on both sides, he pronounced himself an advocate for the claims of Hippolytus to the authorship of the work in queetion. Lived during the 3d century.

Hippolmane, n. (Bst.) A gen. of plauts, ord. Eup

It flourishes in the Antilles and on the American conti-It flourishes in the Antilles and on the American continent, near the sea, and forms a very handsome tree, with foliage not unlike that of the pear-tree. The juice which fills the tree is of a pure white color, and when dropped on the hand it burns like fire, forming an ulcer very difficult to heal. Seamen state, that if ees-water be applied to the eyes when affected by the poison, it allays the inflammation in an effectual manner. The fruit, which resembles a very beautiful apple in appearance, contains a similar juice, but of a milder character. The burning of the lips immediately warn those who bite it of the danger of eating it. The timber is beautifully variegated, and susceptible of a high polish. It takes its name from the Gr. hippos, a horse, manomai, 1 rage.

I rage.

Hippo'ma, (Myth.) a goddess who presided over horses. Her statues were placed in horses' stables.

Hip'ponyx, n. [Gr. hippos, a horse, and onyx, a claw.] (Zoil.) A genus of Molluscous animals, of which there are numerous species, though until lately only known in a fossil state. The shell is obliquely capshaped; inequivalve, and destitute of ligament and hinge teeth; lower valve attached with a muscular impression composed of two lunulate portions meeting at one extremity, and presenting the form of a horse-shoe; upper valve conical, with the apex inclined backwards, and the muscular impression marginal. These animals are generally, but not always, supported on a solid shelly plate.

Hippopathel'ogy, n. [Gr. hippos, and Eng. pathol-

Hippopathol'ogy, n. [Gr. hippos, and Eng. pathology.] The veterinary science; the pathology of horseogy.] The medicine.

medicine. **Hippoph'agi**, n. [Gr. hippos, and phagein, to eat.]

(Anc. Geog.) A people of Scythia that fed on horse-flesh. The descendants of these—the Kaimuck Tartars of the present day—still retain the peculiarities of the Scythians, and esteem horse-flesh as a dainty. **Hippophagous**, (hippof'a-gus), a. [Gr. hippos, and phagein, to eat.] Feeding on horse-flesh, as certain Tartar tribes. &c.

magem, to eac.] Feeding on investical, as certain Tartar tribes, &c.

Hippophagy, (hip-pof'a-jc.) n. Art or practice of eating horse-fiesh. Many attempts have been made in Europe to introduce the flesh of the horse as an article of food, hippophagic societies being formed in Paris and Berlin about 1845; horse butcheries established in Germany in 1855, and in Paris in 1866. But these efforts were largely failures, and the people of Paris first became accustomed to H. during the privations of the siege of 1870-71. The meat, though dark in color, is found to be pleasant in taste and nutritious, and its use is rapidly increasing. H. has not extended to the U. S.

Hippopot'amum, n. [From Gr. hippon, the horse, polamins, of the river.] (Zozl.) The River-horse, a pachydermatous animal, which inhabits most of the rivers of Africa. Its generic characters are: four toes on all the



Fig. 1295. - HIPPOPOTAMUS.

feet, inclosed in small hoofs; six molar teeth on each side of both jaws; large and strong canines, of which the upper ones are nearly straight, the lower ones curved, and working upon each other so as to produce a chisel edge; four incisors in each jaw, the upper ones short and conical and bent inwards towards the mouth, short and conical and bent inwards towards the mouth, the under ones long and cylindrical, and pointing outwards. The skeleton of the hippopotamus approaches that of the ox and the hog, but it presents, also, wide differences, which separate it from classification with any other animal. From the structure of the teeth, it is evident that the quantity of vegetable matter supplied to the digestive organs must be very great in proportion to the nourishment derived from the same, as portion to the nourishnient derived from the same, as the principle on which its jaws are formed seems more for the purpose of tearing and rudely dividing than thoroughly masticating the tough grasees and vegetables which form the staple food of the animal. The hippopotami live during the day-time immersed in the water of their native rivers, and at night come to land for the purpose of feeding, when they do an immense amount of damage to the neighboring fields, not only from the large amount of produce they consume, but also the still greater quantity which they tread under foot and lay waste with their ponderous, bulky proportions. From their being able to breathe under water, they appear to be possessed of some muscular arrangements for closing their being able to breathe under water, they appear to be possessed of some muscular arrangements for closing the nostrils, as is seen in seals and other marine animals. Remains of different species of hippopotami are often found in the tertiary geological formations of Europe, and in the tertiary stratas at the foot of the Himalaya Mountains in Hindostan an extinct species of H. has been discovered, which had six incisor teeth in each jaw. Bochart identifies the H. with the B-hemoth mentioned in Scripture; but Cuvier, while agreeing with him that the identity is possible, still asserts that the description given in the book of Job is not sufficient

to place the matter beyond doubt. That it was known to the ancients is conclusive from the fact that Herodotus Aristotle, Pliny, and Diodorus, each and all give descriptions of the animal.

Aristotle, Pliny, and Diodorus, each and all give descriptions of the animal.

Effippufric Acid. n. [Gr. hippos, horse, and ourns, urine.] (Chem.) This acid exists in the urine of herbisorous animals, and in small quantity in that of human beings. It is increased by a vegetable diet, by the disease called diabetes, and may be caused to appear in the urine in considerable quantity by using benzoic acid with the food. H. A. is obtained by evaporating fresh horse urine to one-eighth its volume, and adding hydrochloric acid, when the impure H. A. crystallizes out. By redissolving in boiling water, and bleaching with animal charcoal, the scid is obtained in white prismatic crystals. It is soluble in 500 parts of cold water, but dissolves readily in boiling water and alcohol. With bases, H. A. forms salts remarkable for their beautiful crystalline forms. When heated, it yields benzoic acid cyanohydric acids: when boiled with powerful acids, it yields benzoic acid and glyoccoll; and it yields benzoic acid when treated with oxidizing agents, as when its solution is boiled with brown oxide of lead, or with sulphuric acid and peroxide of manganese, and also when it is heated with sulphuric acid at a temperature of 2480.

of 248°.

Hippuris, n. (Bot.) The Mare's-tail, a genus of the nat. ord. Halaragaces. H. vulgaris is an insignificant plant common in stagnant water and alow streams. The stem is simple, or sometimes branched at the base, and erect. The leaves are linear, pointed at the end, and growing in whoris of from six to twelve. The flowers are minute, and often without stamens. They are

and growing in whorts of from six to twelve. The flowers are minute, and often without stamens. They are produced in the axil of each of the upper leaves.

Hip'purite, n. [Gr. hippos, a horse.] (Geol.) A massive horsehoof-like bivalve of the chalk formation, having a deep conical or sub-cylindrical under-valve, with a flatish lid, or upper valve.

Hip'purites, n. (Geol.) A gen. of fossil plants of the coal-measures, so called from their close resemblance to the Hippuris vulgaris, or Mare's-tail. If they grew in the same relative proportions as the existing plant, many of the fragments found would indicate a height of 18 or 20 feet.

Hup'pus, n. [Lat., from Gr. hippos.] (Med.) A span-

many of the fragments found would indicate a height of 18 or 20 feet.

Hippun, n. [Lat., from Gr. hippos.] (Med.) A spasmodic affection of the iris, occasioning repeated dilatations and contractions of the pupil of the eye.

Hip-rafter, n. (Arch.) The rafter or beam in the angle of a roof formed by a hip.

Hip-rafter, n. (Arch.) The rafter or beam in the angle of a roof formed by a hip.

Hip-thot, a. Having the hip dislocated.

Hip-tile, n. A tile shaped to cover the hip of a roof.

Hip-tile, n. A tile shaped to cover the hip of a roof.

Hip-tree, n. (Bol.) The Dog-rose, Rosa canina.

Hip-wort, n. A plant.

Hirams. (Script.) I., a king of Tyre, who sent to congratulate Davidon his accession to the throne, and aided him in building his palace. (2 Sam. v. 11; 1 Chr. xiv. 1.)

He was the father of Abibaal of secular history.—

II., a king of Tyre, was a grandson of the former (2 Chr. ii. 14), and like him a friend of David. He congratulated Solomon at the commencement of his reign, and furnished essential aid in building the Temple.

Hirams, in Maine, a post-township of Uxford co., abt. 00 m. S.W. of Augusta.

Hirams, in Ohio, a post-township of Portage co. It is the seat of Hiram College.

Hireie, (hernia), a. [Fr. hircipue, from Lat. hireus, a he-goat.] (Chem.) Obtained by saponification of hircine; as, hircie acid.

Hirieme, n. (Min.) Same as Hircie, q. v.—a. Goat-like; having a rank, goatish smell.

he-goat.] (Chem.) Obtained by saponification of hircine; as, hircic acid.

Hir'cine, a. (Min.) Same as Hircits, q.v.—a. Goat-like; having a rank, goatish smell.

Hir'cine, n. [Lat. hircus, a goat.] (Min.) A fussil resin of a yellowish-brown color. It fuses and burns in a candle-flame, and leaves a coal that has a strong animal odor, whence its name; pp. gr. 1-10.

Hire, v. a. [A.S. hyrian, Abyrian, from hyre.] To procure from another person for temporary use at a certain rate of compensation, or for a fair equivalent; as, to hire a house for twelve months, to hire a house for twelve months, to hire a horse for a day, to hire an opera-glass for one evening.— To engage in one's employ for a stipulated amount of wages, or other money consideration; to contract with for a pecuniary recompense; as, to hire a cook for the season, to hire a laborer by the day.— To bribe; to engage for immoral or nefarious purposes; to suborn; as, to hire a person to declare an alibi.— To engage the services of, for a specified compensation; to permit the temporary employment of for remuneration; to lease; to let; generally preceding out; as, he has hired out his broodmare;— and sometimes reflexively; as, she hires herself out as a laundress.

self out as a laundress.

mares;— and sometimes reflexively; as, she haves herself out as a laundress.

—n. [A.S. hyre; Du. hunr; Ger. (dial.) hener; Ar. kire,
qiar, qir.] Compensation paid or contracted to be given
for the temporary use of anything.

—Remuneration given for personal services; wages; salary; pay; reward; allowance.— Reward, or recompense for base or nefarious services rendered; a bribe.

Hire'less, a. Without hire.

Hire'less, a. Without hire.

Hire'less, a. Without hire.

—a. Serving for wages or here; by implication, a
mercenary; a tool; also, a prostitute.

—a. Serving for wages or hire; employed for money or
other compensation; corrupt; mercenary; venal.

Hire's, n. One who hires or obtains the use of anything for a pecuniary or other recompense; one who
contracts with or engages servants.

Hiremdelle, n. [Fr.] The Swallow.

Hirschberg, (hershoairy,) a town of Prussia, in Silesis, on the Lauer, at the junction of the Bober and

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Zacke, 28 m. N.W. of Liegnits. Massaf. Cloth, linen, stockings, paper; printing, and sugar-refining is also carried on.

Hirsowa, (hear'sō-va.) a fortified town of Turkey-in-kurope, on the Danube, 64 m. 8.W. of Ismail; pop. 4800. 4.800

from hirtus.] Hairy; rough with hair; shaggy; set with bristles; as, a hirsute skin. (Bot.) Hispid; having roughish hairs; as, a hirsute

root.

His'suteness, n. Hairlness; shagginess.

Hirum'do, n.; Hirumdimidse, n. pl. [Lat., swallow.] (Zoll.) The Swallows, a genus and fam. of birds, order Instasoness, q. v. Soe Swallow.

His. (hiz.) pron., possessive sing. of he, and possessive adjective pron. [A.S. nomin. he, bc; Gr. hys, of him.] Belonging or pertaining to him.

"His time is for ever, everywhere his place." — Cooley.

Of him. as the recognibilities is his.

-Of him; as, the responsibility is his.

Nors. — His was formerly connected with a noun as a purely possessive sign.

NOTE.— His was formerly connected with a noun as a purely possessive sign.

"Fit to be made Methusalem his page."— Donne.

Of his, considered as an equivalent for of him.

Hising crite, n. (Min.) A black mineral of greasy lustre; composed of silica 35-9, seequioxide of iron 42-6, water 21-5. Sp. gr., 20-46. Found at various places in Norway and Finland.

Hishe, v. n. (From Lat. Mesore, to gape.) To grap, or breathe laboriously. (Used as an English provincialism.)

Hislopite, n. (Ain.) A green mineral from central india, consisting of calcite colored with glauconite, q. v.

Hispanic/In., or San Dominoo. See Havri.

Hispanic/In., or san beind, originally of bull's hide, rough and hairy.) (Bot.) A term used in describing the rough and hairy.) (Bot.) A term used in describing the superficial appendages of bodies to denote their being covered with long rigid hairs, as the stem of Echium valoure.

velgare.
(Zoll.) Denoting a surface rough with minute spines, or very rigid bristles; bristly.

His'pidous, a. [Dim. of hispid.] (Bot.) Possessing stif, stunted hairs.

Hiss, v. n., (imp. and pp. Hissen, (hist.) [A.S. hysian; Dan. hrees; formed from the sound.] To make a sibilant sound by impelling the breath between the tongue and the upper teeth, particularly expressing disapprobation or dealike.

To give a strong aspiration, resembling the noise made by a serpent, or as water in which hot metal is plunged "Thrown into the Thames . . . like a horse-shoe . . . hissing hot

-To glance or glide with a whizzing, whirling noise, a

an arrow. "His forceful spear . . . hissing as it flew." - Dryden

-s. To condemn by hissing; to follow or pursue with hisses or sounds of disapprobation; to silence or put down with hisses; to explode; —sometimes before off or out; as, to be hissed off the stage. —To procure hisses; to contrive disgrace for.

"I play a part, whose issue will Mee me to my grave.

"I play a part, whose issue will Mose me to my grave." — Skale.

—n. The sound made by ejecting the breath between the tongue and upper teeth, as in pronouncing the letter s, or any sibliant sound; — used, especially, as an indication of contempt or disapprobation. — Any sibliation, as the noise made by serpents, or geese, or by the escape of steam, or by water coming in contact with bot metal, &c. Hisse'ing, n. A sibliant sound; a hiss. — Cause of contempt or disapprobation; object of dislike or derision.

"I will make this city desolate, and a biseing." — Jor. xix. 8.

Hise'ingly, adv. With a hiseing sound; in a sibilant

Hist, interj. Silence! hush! be still! — an exclamation

commanding silence.

Histogenet'ie, a. Producing or forming animal

tissues.

Histog'eny, n. [Gr. histos, tissue, and genein, to bring forth.] The generation and development of organic tissues.

Histog'raphy, n. [Gr. histos, and graphsin, to describe.] A description of organic tissues.

Histolog'isla, a. Relating or pertaining to histology, or histological facts or principles.

Histol'ogist, n. One learned in histology.

Histol'ogy, n. [Gr. histos, a web, logos, a discourse.]

A term identical, or almost so, with general minute anatomy, or microscopic anatomy. H. classifies and describes the structural or morphological elements which exist in the solid and fluid parts of organic bodies. This science did not make any great progress describes the seructural or morphological elements which exist in the solid and fluid parts of organic bodies. This science did not make any great progress until the commencement of the nineteenth century, when the invention of the compound microscope caused its advancement. Its origin, however, may be traced back to Malpighi, who lived in the seventeenth century, and discovered the blood-corpuscles. In more recent times, very valuable discoveries have been made by uniting the use of the microscope to experimental chemistry. The structure of different horizy tissues was thus first shown; and it was proved that whalebone, nalls, and cow-horn are similarly composed of aggregations of diminutive cells. H. has also been useful in the Investigation of the nervous tissues, and of many other structures, and has been a very important element in the recent development of medical science. Much useful information has also been obtained through the study of vegetable H. Kölliker, Leydig,

HIST

Frey, and Schwann, may be mentioned among those who have practiced it successfully in Germany: Robin and Lebert in France; and in England, Todd, Bowman, Clarke, Beale, Queckett, Bennett, and Lockhart, while the histologists of the U.S. are now among the foremost in the world.

Historiam, n. [Fr. historiam, from histoire, history, q.v.] A writer, or compiler of history; a chronicler; an annalist.

Historiam, T. Containing history; or the relation of facts and events; as, an historical romance.—Relating or pertaining to history; as, "historical evidence.—Representing or illustrative of history; as, an historical chart. historical chart.

Historically, adv. In an historical manner; in a form indicative or illustrative of history; by way of nar-

rative.
"I shall consider him Metorically as an author."
To make Historicise, (his-tori-riz.) v. a. To make historical to record as matter of history. (a.)

Historical, (his/to-rid.) a. Storied; narrated; recorded

in history. **Historiog rapher**, a. [Gr. historiographos.] A professed historian, or writer of histories. It has been a common, although not uniform, practice in European courts to confer the place of state historiographer on some learned man as a mark of royal favor. Voltaire had at one period the title of *Historiographer-Royal of Thematics*.

courts to confer the place of state historiographer on some learned man as mark of royal favor. Voltaire had at one period the title of Historiographer-Royal of Prance.

Historiographe of historian.
Historiographer or historian.
Historia; and there can be but little doubt that this ancient writer fixed the sense in which the word was first used by Herodotus, who calls his work by the title Historia; and there can be but little doubt that this ancient writer fixed the sense in which the word has since been applied; that is, as meaning the science which treats of man, in all his social relations, religious, moral, commercial, political, or literary, as far as these are the result of general influences extending to large masses of men. Embracing both the past and the present, history consequently considers everything which acts upon men,—regarding them in the light of members of society. It should clearly represent the relations in which man exists towards his brother men, and should detail the influences to which he is subjected, the motives by which he is actuated, and the inferences drawn from the same, with clearness and truth. According to some commentaries, H may be either considered in the light of an intellectual exercise in the department of human knowledge or science, or as a form of literary composition. Bason reckoned it as the chief component part of learning, and studied it in its relations to memory, while he placed philosophy and poetry below it, as appealing only to the understanding and imagination. It is therefore the business of H to record or remember the eventa, past and present, of the world, and to place them down in such a way that they can have the best hold on the memory, by appealing to other facts for their support and corroboration. This is the true definition of the word used by Herodotus, although it has been analogically used to express other branches of investigation, as in the term natural H, still in use; and some of the acts of the Jewish race than a general description of othe prevalence of certain customs, at the time in which the poems were composed. An examination of the Trojan legend with the mythology of other portions of the Aryan race, has shown that there is no real ground for theories which connect the war of Troy with the movements of Hellenic colonists in W. Asia, or with any other political causes. Herodotus is the oldest Greek prose writer. His invaluable H. comprises a description of several countries bordering on Greece and the Mediteranean, concise narratives of Egyptian, Persian, and Assyrian H., and a connected account, more or less detailed according to circumstances, of the H. of Greece, both civil and domestic, for about 50 years previous to the invasion of Xerxes, with which his annais close (B. O. about 480). The H. of the Grecian commonwealth is pursued in detail by Thucydides and Xenophon for about a century afterwards. After that period, our knowledge of Greek domestic H. is confined to the incl-

dental notices derived from contemporary writers and the general compilations of later historians, varying greatly in trustworthiness and authority. Among these the general compliations of later instorians, varying greatly in trustworthiness and authority. Among these may be mentioned, as authors from whom a large portion of our actual knowledge is derived, Diodorus Siculus, the author of a very miscellaneous general H., of which great part is lost, who lived about the age of Augustus; Polybius, whose H. is more especially devoted to Roman affairs; Arrian and Quintius Curtius, the historians of the conquests of Alexander; Lity, as to the transactions between Greece and Rome; Justin, the compiler of a brief but useful abridgment of general H.; Plutarch, in its Lives of Illustrious Men, &c. These writers bring the student down to the period of the subjugation of Greece by Rome, after which all H. of Greek affairs, properly so called, terminates, until the establishment of what is known as the Eastern Empire; and we have little knowledge of the state of Greece and the Greece-Asiatic kingdoms in their provincial state. Ancient Roman H., down to the first Punic war, is chiefly known from the compilations of Livy and Dionysius of Halicarnassus, writers whose credit is rendered extremely doubtful by modern investigation, and, where these fail, from incidental sources. In the H. of the Punic war, the narrative of Livy is aided by the admirable work of Polybius. From the end of the second Punic war to the dictatorship of Sulla, nearly 150 years, our materials for Roman H. are very deficient, the want of contemporary writers being supplied only by later compilations, and by the incidental knowledge derived from writers on various subjects, the course of whose composition led them to touch on past events, of whom the most valuable is Cicero. From the period of Sulla's dictatorship to the accession of Vespasian, nearly 150 years, we have the advantage of a succession of contemporary writers, some of them actors in the events which they describe, and comprising some of the greatest names in literature—Sallust, Cicero, Cæsar, Velleius, Paterculus, Tacitus. to the accession of Vespasian, nearly 160 years, we have the advantage of a succession of contemporary writers, some of them actors in the events which they describe, and comprising some of the greatest names in literature—Sallust, Cicero, Cæsar, Velleius, Paterculus, Tacitus. Yet even here there is one considerable lacusua, comprising the last thirty years of the reign of Angustua, as to which our knowledge is scanty. From the accession of Vespasian to the reign of Constantine, a long period elapses, during which our historical acquaintance with the events of an empire then comprising the greater part of the civilized world is vague and defective. Dion Cassius and Herodian are the two best writers on H. who can be named in this long interval. The latter, during the short epoch which he illustrates as a contemporary, is full and valuable. After the accession of Constantine, we have abundant materials for H., both ecclesiastical and civil, from the hand of contemporary authors, down to the reign of Justinian in the East and of Theodoric in the West, although the quality of the writers is sensibly degenerated. Perhaps the comparative obscurity and uncertainty into which H. is plunged after the last of these two epochs, and the absence of all standard writers after Procopius, render it the best period to fix upon for the arbitrary limit between ancient and modern H. It will be seen from this brief summary, that the only periods of any extent as to which we have the assistance of contemporary historians, or original authority properly so called, in the whole extent of classical H., are:—1. As to Greece, from B. c. 500 to B. c. 300; 2, as to Rome, from the dictatorship of Sulla to the accession of Vespasian, B. c. 76 to A. D. 70, and finally the reigns of Constantine and his successors. After the downfall of the Roman Empire, a long series of revolutions in dynasties and nations followed before W. Europe was parcelled out into the several great countries which, notwithstanding all subsequent changes in political lim sories of writers, in each country, who are usually comprehended under the title of chroniclers. A chronicle, or look of annals, is properly a H., of which the continuous narrative is so interrupted that each year forms a separate section, and events are thus related in nearly strict chronological order. This is a form very commonly adopted by the historians of the dark ages, of whom the greater proportion were monks. But a great many of the histories of the Middle Ages are not even in the forms of chronicles; they have all the requisites which the most fastidious criticism can require of a regular history. The venerable Bede, who wrote in the 9th century, presents us with the first name of true credit and authority among the annalists of England. Of the monkish Latin chroniclers in later times, Matthew Paris is perhaps best entitled to the character of an historian. After the period of the invaluable Saxon chronicle, we have no vernacular English histories worthy of note, with the exception of a few meagre rlyming chronicles, until the revival of letters and discovery of printing. In France, the long collection of native Latin chroniclers presents us with few names of interest after the time of the celebrated Gregory of Tours; but he Crusades called forth, for a short space, an unusual spirit of historical description. When we arrive, however, at the 14th and 15th centuries, we find among the native French historians two authors of great value as intimately acquainted with the events of their own times, Frousart and Phillip de Comines. The annals of Italy are to be sought in the pages of a long series of chroniclers, from the 8th century downwards, of whom the  $\mathbf{G}\mathbf{U}\mathbf{U}$ 

most valuable are published together in Muratori's great collection. Their works are uniformly in Latin until the 18th century. But towards the end of that age the Tuscan dialect was elevated, as it were at a single step, to the rank of a literary language; and the little Tuscan republics produced a succession of historians, many of them remarkable for the purity of their style, and some (as the three Villani of Florence) for their extensive information and historical allent. Germany and Spain, in the Middle Ages, produced few historical works above the rank of dry chronicles. But the annals of the Scandinavian nations form the most important part of their early and peculiar literature. The Greek of the Scandinavian nations form the most important part of their early and peculiar literature. The Greek empire produced, also, a series of chroniclers, whose works have been collected in the Ompus Historiae By-santins. The period known as that of the revival of empire produced, also, a series of chroniclers, whose works have been collected in the Corpus Historie Bysantins. The period known as that of the revival of letters, and the following century, were distinguished by the appearance of several writers of first-rate merit in the department of H. In Italy, Guicciardini; in France, De Thou; in Spain, Herrera; and in England, Camden. To follow the progress of H. in modern times would be an impossible task. Suffice it to say, that with the advance of literary knowledge and the increase of education, historical writers seem to become more strongly divided into two very different classes: those who furnish contributions towards the H. of their own times, especially the writers of memoirs — of which France gave the first examples, and still produces the most numerous; and historians, more properly so called, who collect, discuss, and criticise, endeavoring to extricate the truth from the mass of former materials. The latter, in our times, has become more peculiarly the province of literary men. Philosophical H., in which the mere narrative of facts is regarded as subordinate to the elucidation of general truths, and too frequently to the establishment of favorite theories, is a modern improvement in the art; and Voltaire is commonly regarded, not without some truth, as the founder of the school of philosophical historians, among whom the highest rank in popularity has been attained and deserved by Gibbon. But it may be said, with truth, that the present century has carried the science of philosophical and political H very far beyond those which preceded it. The names of Sismondi, Mignet, Thiers, H. Martin Thierry, Michelet, Halliam, Macaulay, Niebuhr, Schlosser, Ranke, Finlay, Grote, Dean Milman, Sir G. Cornewall Lewis, Froude, and our distinguished countymen, Bancroft, Presecti, and Motley, might be cited in proof of this assertion.

Histerion te, Histerion ice, a [lat. Mistro.] A stage-player.

player. (a.)

Histrion'ie, Histrion'ieal, a. [Lat. histrionicus, from Etruscan hister, a player or dancer.] having reference to theatrical representation; pantomimic;—employed, sometimes, in a bad sense; as, the histrionic profession. "False and histrionic feelings." -De Quinces

Histrionic Art. The art of acting in dramatic repre

sentations

sentations.

Histrion'ically, adv. In the manner of a stage-player; theatrically; resembling a pantomime.

His'trionism, n. Stage-playing; the acts or practices of buffoons or pantomimists.

Hit, v. a. [Swed hitta, to strike, to touch; Dan. hitte, to find, to meet with.] To strike; to touch or reach with a blow, as the mark or object aimed at; to strike or touch, either with or without force.

"I think you have lift the mark." — Sh

—To strike, touch, or reach a mark with anything directed to that object; to attain exactly; to be conformable to; to suit; not to miss, or fail; — used tentatively. Some comment here . . . may hit the poet's mind."-R.

(Games.) In backgammon, to take up and replace by

(Games.) In backgammon, to take up and replace by a man from the opposite side;—said of a single man standing by himself on one point.

To hit off, to describe, or strike off with characteristic fidelity; to fix or determine luckly; as, the artist hit off the facial expression to the life.

on the late appears to the line:

-e. n. To strike; to meet or come in contact; to clash;
to collide:—preceding m or against. — To meet or fall
on by good luck; to succeed by accident; to strike or
reach the intended mark, point, or aim.

## "All human race would fain be wite, And millions miss for one that hite."—Swift.

To hit on or upon, to light upon; to discover or attain by chance; to arrive at fortuitously.

• a. A striking against; a stroke; a forcible touch; a blow; a collision of one body against another;—often implying with luck or chance. — A happy idea or conception; a lucky phrase, or apt expression of thought; a striking or peculiarly applicable impression, which seems competent to hit the mark.

(Games.) In backgammon, a partial victory;—three hits being equivalent to one gammon.

Hit, a town of Turkey in Asia, 140 miles N. of Hillah. This city, which became celebrated at a very early period for its abundant supplies of bitumen, carried into Egypt, a. c. 1400, is still an important mart for the same commodity. Pop. 1,500.

Hitehs, v. n. [Sw hakka, to join with a buckle, frequent, from haka, to seize with a hook, from hake, as, a hitched cable. — To move by jerks, or with stops, as, a hitched cable. — To move by jerks, or with stops,

quent, from haka, to seize with a hook, from hake, a hook.] To be caught or hooked; to become entangled; as, a hitched cable.—To move by jerks, or with stope, as one whose legs are entangled; to move spasmodically; to jerk; to hop.—To fidget; to move restlessly; to change places; as, to hitch one's position when standing.—To hit the legs together in going, as horses. (Eng.)

-e. a. To hook; to catch or bold by a hook; as, to hitch a bale.

(Nast.) To make fast; as, to hitch a bale.

(Nast.) To make fast; as, to hitch a bale.

(Nast.) To make fast; as, to hitch a rope.

-a. A catch; a hook, or anything that holds;—hence, an obstacle, hinderance, or impediment; as, there is a hitch in the affair. — Act of catching or holding, as on a hook. — A check, or sudden halt in locomotion.

(Grol.) A small dislocation of a vein or lode.

(Nast.) A knot or noose made in a rope or hawser; as, a clove-hitch, a running-hitch geologist, and Prof. Elward Hitchcock, born at Amherst, Mass., Aug. 23, 1836; graduated at Amherst College; Assistant Geologist of Vermont (1867-61); State Geologist of Maine (1861-62); and of New Hampshire (1868-72); professor of Geology at Dartmouth College since 1869; vice-president of the American Association (1883). Has written much on geology.

president of the American Association (1883). Has written much on geology.

Hitch: cock, Enward, D.D., LL.D., an eminent American geologist, s. in Deerfield, Mass., 1793. He successively filled the offices of principal of Deerfield Academy, 1815–18; pastor of the Congregational Church at Conway, Mass., 1821–5; professor of chemistry and natural history in Amherst College, 1825–45, and president and professor of natural theology and geology in the same institution, from the latter year to 1854. He was, besides, appointed State geologist of Mass. in 1830, of same institution, from the latter year to 1854. He was, besides, appointed State geologist of Mass. in 1830, of New York 1st district in 1836, and of Vermont in 1857. D. 1864. Dr. H. was the author, among other works of high reputation, of Illustrations of Surface Geology (1857); of Elementary Geology (which has passed through 25 editions in the U. States, besides 8 in England), and Religion of Geology and its Connected Sciences (1851), which has had an extensive circulation on both sides of the Atlantic.

the Atlantic.

Hitch'in, a town of England, co. Hertford, 16 m. fron

Bedford; pop. 8,500.

Hitch'ing, n. A fastening for horses.

Hitch'ville, in Winois, a village and township of Coles co., about 100 miles E.S.E. of the city of Spring

Hithe, Hythe. [A.S. hyde.] A small haven; a port a landing-place for vessels; used in composition; as Rotherhithe, Queenhithe, Lambhithe (now Lambeth) (England.)

(England.)

Hith'er, adv. [A. 8. hider or hither; Goth. hidre; Icel. hedhra; Sansk. hina, this.] To this place; used with verbe signifying motion, and, by implication, toward the speaker.—To this end, aim, point, topic, result, design, or conclusion; — used argumentatively. (a.)

—a. Nearer; towards the side or direction of the person speaking — correlative of farther; as, the hither side of a house.

Hith'ermost, a. Nearest on this side.
Hith'erto, adv. To this time; yet; in any time, or
every time; until now; in time preceding the present. " Hitherto she kept her love cons aled." — Dryden.

To this place, or to any prescribed limit.

" Hitherto shalt thou oo: e, but no further." — Job xxxviii. 11. Hith'erward, adv. Hither; toward this place; this

way; here.

Hit'ter, n. ( One who hits, or deals successive blow

as, a hard Atter. **Histerge.**, (hittero,) an island on the coast of Dronthelm, in Norway; area, 250 m. Pop. aht. 6,000. **Hiveo** a, the principal island of the Marquesas group in the South Pacific Ocean, is about 22 miles long by 10 miles broad. Its northern point is said to be in Lat. 90 34'8, and in Lon. 1399 4' W. Pop. stated at 6,500.

miles broad. Its northern point is said to be in Lat. 69
34' S., and in Lon. 1390 4' W. Prp. stated at 6.500.

Hive, m. [A. S. hyfe, from hive, a family; Goth. heire;
O. Ger. hivibra; Sansk. xi, xi, to dwell.] A swarm of
bees; a family of bees belonging to a single hive.
—A receptacle for housing bees; a habitation for bees.
—A company or society massed together, or closely united;
a place or scene crowded with busy occupants.

r. a. To collect into a hive; to cause to enter a hive, as
bees. — To contain; to receive, as a habitation or place
of deposit; to deposit or lay up for use and enjoyment.

"Hiving wisdom with seah studious year."—Brow.

lom with each studious year. '- By

v.n. To take shelter together; to reside in a collective

"Drones hive not with me."-Shake.

"Dropes Mee not with me."—Shaks.

Hive'-beetle, n. (2081.) See CLEUS.

Hive'less, a. Without a hive; deprived of a hive.

Hiv'er, n. One who collects bees together to hive.

Hiv'er, n. [Scot. See Haves.] (Mcd.) The CROUP, q. v.

Hix'tom, in Wisconsin, a post-township of Jackson co.,
about 40 m. N. by B. of La Crosse: pop. about 600.

Hi'merville, in New York, a post-village of Oneida co.,
110 m. W.N.W. of Albany.

H. M., abbreviation of His or Her Majesty.

H. M. S., an abbreviation for His or Her Majesty's Ship
or Service.

An exclamation, equivalent to Hola! Halloo! ahoy! oh! hey!—used to attract attention, or given as a signal of approach "What noise there, he ? "-Shake

—Stand! stop! hold! be still! cease! — used by wagoners in stopping their horses. (In England, whot!)

"Stand he! a peak the word along."—Shaks.

Hong 'lim, in Ohio, a thriving post-township of Van

Heag'lin, in Ohio, a thriving post-township of van Wert county.

Heag's Corner, in New York, a post-village of Bensselser co. Pop. (1897) about 350.

Ho'ang-ha. [Chin, the yellow river.] A great river of China, and one of the most prominent features in the geography of that vast empire. It rises near Lat. 34° N., Lon. 98° E. Though broad and rapid, it is in many places so shallow as to be untavorable for naviga-

tion. It is also liable to overflow its banks, so that it has been necessary, in many places, to rause dykes for the defence of the surrounding country. Its length is attented at the 2 000 million. estimated at abt. 2,000 miles.

Hear, a. [A. 8. har.] White, or whitish.

Gray with time or age; heary.

The awful hear of innumerable ages.

-Rime; fog or thick mist. (Used in England.)

Hoard, (hôrd.) n. [A. S. hord; Sax. heord-ärn, a repository.] A treasure; a store, stock, or quantity of anything amassed or laid up; a secret fund; a hidden deposit of anything valuable; as, a hoard of money, a hoard of maxima. ard of maxims.

hoard of maxims.

[O. Fr. hourde, a palisade.] The name given in some parts of England to the fence or barrier inclosing the space of ground on which builders are at work.

-t. a. [A. S. hordan; O. Ger. pihurten; Goth. hazedjan.] To collect, amass, or lay up a large quantity of anything; to gather together; to accumulate; to store secretly; to deposit in a place of privacy and security.

"You have not waith for your gar private and security.

You heard not wealth for your or ra private use." — Drye To lay up in store; to gather together and form a

hoard.

Hoard'er, n. One who hoards, or secretly accumulates.

Hoard'erost, n. See Freezing.

Hoar'-froat, n. (Bot.) See Ballota.

Hoar'-hound, n. (Bot.) See Ballota.

Hoar'-hound, n. (Bot.) See Ballota.

Hoariness of advanced age.

Hoarines, (hors,) n. [A. S. has; Dan. has; O. Flem. heersch; Ger. heiser; allied to Harsh, q. v.] Having a harsh, rough, rasping voice, as when suffering with a cold.—Rough; grating; croaking; discordant;—used in application to any sound.

The hearse rough voice should like the terrent roar. Page.

The hourse rough voice should like the terrent roar." Pop Hoarse'ly, adv. With a rough, rasping, discordant

voice or sound.
"The hounds at nearer distance hoursely bay'd.". Hoarse ness, n. Harshness or gruffness of voice; roughness or discordance of sound; preternatural asperity of voice.

stone, s. A stone placed to mark the limits or

boundary of an estate; a land-mark.

Hoar'y, a. [See Hoar.] White or gray with aga.

"The heavy head is a crown of glory." — Proc. xvi. 31.

White, or of a whitish color.

"The loary willows waving with the wind."— Dryden.

(Bot.) A term used in describing the superficial appendages of bodies, denoting their being covered with very short dense hairs placed so closely as to give an appearance of whiteness to the surface from which they

appearance of whiteness to the surface from which they grow.

Hoax, (hōks.) n. [A. S. hucse, or hucx; Low Ger. jus.]

Something done for deception, derision, or mockery; a practical joke; a trick played off in sport; a false report.

-v. a. To play a trick upon for sport, or without malicious intent; to deceive; to humbug; to mock by false representation or incitement.

Hoax'er, n. One who hoaxes; a trickster; one who dupes or plays practical jokes upon another.

Hob, n. [O. Ger. hōla, huofa, an abode; lanthuoba, a countryman. Perhaps allied to Hossiz, q. v.] A hobbing, awkward, clumsy clown; an elf.—a contraction for Robin, a sprite, from Shakspeare's Robin Goodfellow.

-A rustic: a bumpkin; a country lout. — The flat surface sides of a grate, intended to hold things to be kept warm; as, a kettle on the hob.—The nave of a wheel.

warm; as, a kettle on the hob.—The nave of a wheel See Hus.

Ho'bart, in Indiana, a post-town and township of Lake co., on 3 railroad lines, about 11 m. N.E of Crown Point. Pop. (1830) 1,010.

Hobart, in New York, a post-village of Delaware co., about 65 miles W.S.W. of Albany.

Ho'bart Towm, a scaport and cap of Tasmania, on the Derweut; Lat. 420 53' S., Lon. 157° 26' E. It is the seat of the colonial governor. Pop. (1837) about 32,000, a decrease since the last ceinsus.

Hobbes, (hobs,) Tammas, an English philosopher, R. at Malmesbury, 1588. He lived on intimate terms with Bacon, Ben Jonson, and all the distinguished men of his time; he became tutor to the Prince of Walca, afterwards Charles II., and though many of his philosophical and political opinions have been condemned, he must be considered the father of Psychology, and the first great English writer on the science of government. His principal works are, the treatises De Circ and The Levichtan, both of which were censured by parliament in 1666; Human Nature; De Corpore Politics; De Libertate, Mobbell'sa, MENDERT, a very distinguished Dutch landscape-painter, B. 1638; was a pupil of Ruysdael. D. about 1690.

Hob'ble, in Pernsylvania, a post-office of Luzerne co.

Hobbie, in Pennsylvania, a post-office of Luzerne co.
Hobbism, n. The philosophical doctrines of Thomas
Hobbis, (u.v.)
Hobbist, n. A disciple of Hobbes; a professor of

Hobbism.

Hobbie, (hôb'l,) v.n. [A. S. hoppan; W. hobelw.] To walk lamely, or with the weight of the body resting chiefly on one leg; to limp; to walk, with a hitch or hop, or with crutches.

"Was he ever able to walk, without being discovered by his hobbling r"—Sets.
To move roughly, unevenly, or irregularly, as poetical feet

"She hobbles in alternate verse."—Prior.

v. d. To hobble; to clog; to fasten the legs loosely one to the other; as, to hobble a horse.

n. An uneven, awkward, stumbling manner of walk.

"One of his heels is higher than the other, which gives hebble in his gait."—Swift. GOOGIC

HOFE

—A position of difficulty, perplexity, or embarrassment; a quandary; a mess; a state of trouble or confusion. "Then hast get into a hobble to-day." — Waterton.

Hob'bledehoy, n. (Also hobbletchoy and hobbetchoy.

[Prov. Eng. See Hobble.] A growing youth; a stripling; one who has passed boyhood and not yet entered manhood; - generally used in a contemptuous

sense.

Hob'bler, n. One who hobbles in his gait.

Hob'bler, n. [O. Fr. hobiler.] One who served on a hobby, as a light-armed soldier.

Hob'bingly, adv. With a limping or halting step.

Hob'by, a. Rough; uneven; full of ruts or holes;—applied to reads.

Hob'blingly, adv. With a limping or halting step.
Hob'by, a. Rough; uneven; full of ruts or holes;—
applied to roads.
Hob'by, n. [W. hob, anything having an aptness to
rise, swell, or throw out.] (Zoöl.) A species of European falcon (Fulco subbutco) formerly used in the humbler walks of hawking, chiefly for larks and other small
birds. It is about 12 inches in length; has a prominent
and crooked bill; the orbits of the eye are yellow, and
over each eye is a light colored streak.
Hob'by, n. [Fr. hobin, perhaps from Dan. hoppe, a mare;
probably akin to Icel. hoppa, to leap, and Lapp. hapos;
Gr. hippos, a horse.] An active ambling pony or mag;
a galloway; a garran.—A stick to represent a horse,
on which children get astride and play at horsemanship.
(Generally called hobby-horse.)—Any favorite pursuit
or object of occupation in which a person principally indulges; an eccentricity; that which a person practises
with zeal or delight: a pet, or ever-recurring theme of
thought or conversation.

"In life, each man ridse his own hobby."—Collins.

"In life, each man rides his own hobby."-

Hob'goblin, n. [Probably from hob, for Robin, and goblin, q. v.] A frightful apparition; a spectre; an imp; a guome.

mail, s. A nail with a thick, clump head, use

in men's strong boots, and sometimes to fasten horses' shoes.—A rustic; a country lout; a bumpkin; a term of contempt or derision.

Heb'mailed, a. Set with hobnails; as, hobsailed shoes.

Heb'mob, Heb'-a-mob, Heb'-or-mob. [Probably from A. S. hobbas, have, and hobbas, ne habbas, not have.] Take or not take; a familiar invitation or

ably from A. S. habbas, have, and habbas, se habbas, not have.] Take or not take; a familiar invitation or call to drink reciprocally.

Heb'meb, v. n. To drink reciprocally, familiarly, or together.—By extension, to associate familiarly.

Hebo (hô'bō), n. (Westers U.S.) A homeless wanderer, perhaps one degree above the ordinary "tramp;" sometimes applied to a printer or other mechanic who wanders from place to place seeking temporary employment at his trade.

He'bokem, in New Jersey, a city and port of entry of Hudson co, on the Hudson river, opposite New York city, and about 2 miles above Jersey City. It is chiefly noted as a place of resort for the citizens of New York, and of residence for persons doing business in that city. Here are extensive docks used for transatiantic steamships. Pop. (1895) 54.083.

He'boy. n. (Mus.) See Ord.

Heb'son's C'holee, n. A choice without an alternative; that which is tendered, or nothing; the one thing or none. This phrase is said to have originated from one Hobson, a livery-stable keeper at Cambridge, England, who obliged each customer requiring the hire of a horse to take the next in turn, or that which stood pearset the stabledor. of a horse to take the next in turn, or that which stood

of a horse to take the next in turn, or that which stood nearest the stable-door.

Hoche, (hōth,) Larre, one of the most celebrated generals of the French republic, a near Versailles, 1768. He is chiefly known as the "Pacificator of La Vendée."

D. suddenly, 18th Sept., 1797.

Hochheim. (hōt/hime.) a city of Prussia in Nassan, near the confluence of the Main and Rhine, 16 m. S.W. of Frankfort. It stands on a hill sloping to the Main, on which are the vineyards producing the true hock, a name often improperly given to Rhenish wines generally.

Hochstadt, (hōke stat.) a town of Bavaria, on the Danube, 11 m. N.W. of Augsburg. The Emperor Henry IV. was defeated in the plains of H. in 1081.—The French and Bavarians defeated the Imperialists here, Sept. 18, 1703.—Here also, near the village of Blrn-Prench and Bavarians defeated the Imperialists here, Sept. 18, 1703. — Here also, near the village of Bleneim, Aug. 13, 1704, the French and Bavarians were defeated by the Prince Eugene and the Duke of Marlborough. — At this place also, June 19, 1800, the French, under Moreau, defeated the Austrians, and effected the passage of the Danube. Pop. 2,750.

Hock, n. Same as Hougu, q. v.
— v. a. To hamstring; to hough; to disable by cutting the tendous of the hough or ham.

Hock, n. [From Hochheim, q. v.] A description of lightyellow Rhenish wine, either sparkling or still. (Formerly written hockamore.)

Hocksamusm', in Connecticut, a post-village of Hartford co., abt. 3 m. S. of Hartford.

Hocksamusm' River, in Connecticut, enters the Connecticut River in Hartford co.

Hocksamusm' River, in Connecticut, enters the Connecticut River in Hartford co.

necticut River in Hartford co.

Hock'-day, Hocke'-day, n. [Ger. hoch, high, and
Eng. day.] A festival formerly observed in England on
the second Tuesday after Easter, in commemoration of
the destruction of the Danes in the time of Ethelred.

Hockes'sin, in Delaware, a post-vill. of Newcastle co.

Hock'ey, Hock'ey, Hawk'ey, n. A game at
ball, played with a hooked club, somewhat resembling
golf (q. s.).

Hock'-hop'b, n. A plant otherwise known as the
mallows.

mallows.

Mock'img, or Hockhock'ing, in Ohio, a river rising in Perry co., and after a general 8. and 3. E. course enters the Ohio river, tetween Athens and Meigs cos.

— A 8. E. central co.; area, about 408 sq. m. Rivers. Hocking and Schote rivers, and Salt and Raccoon creeks. Sur-

face, hilly; soil, fertile. Min. Iron. Chuniy-town, Logan.

A township of Fairfield co.

—A township of Fairfield co.

Hock'ingport, or Tror, in Ohio, a post-village of Athens co., on the Ohio River, abt. 25 m. below Marietta.

Hockle, (hok'l.) v. a. [See Hock.] To hamstring; to divide the tendons of the hough. — To mow, as stuble.

Hock'ley, in Texas, a post-village of Harris co., abt. 40 m. W.N.W. of Houston.

Hocksey, v. a. To cheat; to swindle; to adulterate, as liquors; as, to hocus beer with laudanum.

—n. A deceiver; a swindler; a common cheat or trickster.

Ho'cus-po'cus, n. [D. hokus-bokus; also, said to be a corruption of the Latin words hoc est corpus, in the office of the mass.] A conjurer's trick; a piece of leger-demain; also, a juggler, or one who practices sleight-of-demain; also, a juggler, or one who practices sleight-of-demain; also, a juggler, or one who practices sleight-of-

demain; also, a juggler, or one who practices sleight-of-

hand.

—r. a. To cheat; to juggle.

Hod, n. (Fr. and der. hotte, from Allemannic huter, to cover.) A kind of wooden box-tray, used by bricklayers for carrying bricks, mortar, &c., and borne over the shoulder by a handle or shaft.—A coal-box; a coal-

Hodehod'kee Creek, in Georgia, enters Patawha

Creek in Randolph co.

Hoddengray, n. [See Homen.] Undyed woollen cloth; — a term peculiar to Scotland.

Hodgdon, (hojdon.) in Maine, a post-township of Aroostook co., about 160 m. N.E. of Augusta; pop. abt. 1,200.

Hodg'don's Mills, in Maine, a post-office of Lincoln

county.

Hod'genville, in Kentucky, a post-village, cap. of Larue co., about 75 m. 8.W. of Frankfort.

Hodge-podge, (hd'p'pd), s. [Fr. hochepot.] A hotch-potch; a hash; a mixed mess, or medley of ingredients.

"They have made our English tongue . . . a hodge-podge of all other speeches." — Spensor.

—A commixed quantity of land.

Hodge'-pudding, n. A pudding compounded of a medley of ingredients.

sville, (hojes-vil.) in Mississippi, a village of Hodge Itawamba co.

Itawamia co.

Hodier'mai. a. [Lat. hodiermus.] Of to-day; belonging to the present day. (2.)

Hod'masn, n.; pl. Hoden.

Hod'masn, n.; pl. Hoden.

Hodemandod, n. Same as Dodann, q. v.

Hodegraph, (hod'o-graf.) n. [Gr. hodos, a path, and grapho, I trace.] (Math.) A curve imagined by Sir W. itamilton to illustrate the theory of central forces.

Hoe, (hō) n. [Ger. haue, from A.S. heavan, to hew. See Haw.] (Agric. and Gardening.) An instrument for stirring the surface of the soil, cutting up weeds by the roots, and earthing up plants. The land-hoe is a thin plate of iron 6 to 8 inches broad, and sharpened on the edge, fixed at right angles on the extremity of a pole or rod, which serves as a handle. This is called a draw-hoe, because in the operation of hoeing the instrument is drawn which serves as a handle. This is called a draw-hee, because in the operation of hoeing the instrument is drawn or pulled toward the operator. Another kind of garden hoe has the blade or iron plate fixed on the extremity of the handle, and in continuation of it; and this is called a *Urust hoe*, because in hoeing the operator always pushes the hoe forward. This kind is also called the ways pushes the hoe forward. This kind is also called the Dutch hor, most probably from having been first introduced from Holland. In agriculture, hose of the thrust kind are drawn by beasts of burden, and commonly called horse hors. In general form they resemble a plough; but instead of the share they have one or more iron blades or plates with sharp edges, fixed to perpendicular iron rods at their lower extremities. These sharpened plates being drawn through the soil, cut through the roots of weeds an inch or two beneath the surface. Agriculture or field hose are not you and in the surface. Agricultural or field hoes are only used in the case of those field crops which are sown or planted in rows. There are a great many kinds of field or horse hoes, chiefly differing in the number of blades which are attached to the common frame for stirring and cleaning a greater or smaller number of spaces between the row

of drilled crops at once.

Hoe, v. n. To cut, dig, scrape, or clean with a hoe; to clean from weeds; as, to hoe the soil in a garden, to hos corn, &c.
v. n. To use a hoe; to operate with a hoe.

corn, &c.

w. n. To use a hoe; to operate with a hoe.

Hoe'-cake. n. A coarse cake of Indian meal, baked over a fire; a johnny-cake.

Hoe'ing, n. (Agric. and Gardening.) The operation of stirring the ground, cutting of weeds, or earthing up plants with a hoe. In the case of any of these operations dry weather must be chosen, otherwise the result will either be uselesse or injurious. Plants rooted up by the hoe in wet weather will produce fresh roots and grow again, while plants earthed up under similar circumstances will have the leaves which are covered by the soil decayed by it. In either case also the ground will be hardened by the treading of the feet of men or horses, so as to obstruct the progress of the roots, and to exclude air and water from penetrating through it to them. H. is sometimes performed on surfaces which are without weeds for the purpose of stirring the soil; but in such cases pronged hoes, or hoes having three or more long spikes or teeth, are more effective than hoes with broad between blades. red hoes, or hose having three or more long seth, are more effective than hose with broad

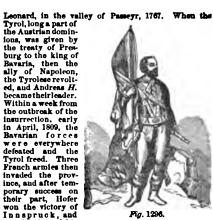
spikes of teetin are more shown to the plates or blades.

Hee's Printing-machine. See Printing.

Hof, (or Stadt zuk Hor.) a city of Bavaria in Upper Franconia, on the left bank of the Saale, 30 m. N.E. of Baireuth. Manuf. Woollens, cottons, leather. It has also extensive breweries.

Hoffer, Andreas, a celebrated Tyrolese patriot, B. at St.

tions, was given by the treaty of Pres-burg to the king of Bavaria, then the ally of Napoleon, the Tyrolese revolt-ed, and Andreas H. became their leader Within a week from the outbreak of the insurrection, early in April, 1809, the Bavarian forces were everywhere defeated and the Tyrol freed. Three French armies then invaded the prov-ince, and after temporary success on their part, Hofer won the victory of



Innspruck, and again freed his monument to Hoper at innspruce. country. By the armistics of Znaim, agreed to after the victory of Napomistice of Znaim, agreed to after the victory of Napoleon at Wagram, the Austrians were compelled to quit the Tyrol. A second French invasion ended in defeat, and the people were a third time freed. For a few weeks H. was, virtually, sovereign of his country; but on the renewed invasion of French and Bavarians, he was betrayed to his enemies, condemned by a court-martial at Mantua, and shot February 20, 1810. His remains were buried in the cathedral of Innspruck; his widow was peniously by the Austrian government and his son

was pensioned by the Austrian government, and his son raised to the rank of nobility. Hoffman, Chalker Fanno, an American poet and novelist, a in New York, 1806. After leaving Columbia novelist, n. in New York, 1806. After leaving Columbia College, H. was called to the bar at New York, where he practised during three years; but, compelled by the state of his health to travel on the prairies, he published, in 1834, a record of his wanderings, under the title of A Winter in the West, which obtained a considerable share of popularity. This was followed by Wild Scenes in the Forest and Prairie, in 1837, and the romance of The Greyslar, in 1840. From the above period to 1849 he was one of the most active and successful contributors to the strategy American progression for one of he was one of the most active and successful contributors to the various American magazines, for one of
which, the American Monthly, he wrote his novel of
Vanderlys. In 1842 he published a collected edition of
his poems, under the title of A Vigil of Fuith, and other
Forms. For nearly two years he was at the head of the
Literary World, in which he wrote his sketches and
essays, under the title of Stetches of Society. An unfortunate attack of mental allenation, in 1849, suddenly
stopped his brilliant career, during which, save for his
love of the horrible and repulsive, he might have claimed
rank among the best modern novelists. D. 1884.
Hoffmann, or Hoffmann. There have been several
Germans of this name distinguished for their medical

Hoffman. Mattonata and Medicina Consultation. N. Obtained much reputation by the new hypothesis which he suggested on the origin of disease, and which, after serving a temporary purpose, led to the establishment of other and sounder hypotheses. D. 1742.

Hoffman, Kanst Theodor Willielm, a German nov-

and sounder hypotheses. D. 1742.

Hoffman, Erner Theodor Willer, as at Königsberg, in 1776. He studied the law, and held various judicial appointments in Poland, till his legal cureer was interrupted by the invasion of Warsaw by the French, in 1806, in the government of which city he had been appointed counsellor. Having devoted his leisure time to the study of music, and being at the same time a romance-writer and an artist, he applied himself to these pursuits in order to obtain a livelihood. He possessed much imagination and talent; but he was an intemperate liver, of a flery temper, exceedingly vain, and suffered much from hypochondria. Among his works are Funtary Pieces, The Devil's Elizir, The Entail, The Adversary, &c., all displaying a singularly wild and romantic imagination. In 1816 he was reinstated as counsellor of the court of judicature in Berlin. D. 1822. Hoffmann (vom Fallersleben), August Henralica, a popular German poet, B. at Fallersleben, 1798. In 1823 he was appointed conservator of the Breslau University library, and soon afterwards published his Pinpolitical Songs, which caused him to become very popular.

Digitized by GOOGIC

and for peasants; indeed, as a poet, he may be said to have written only for the simplest among his countrymen. He also contributed valuable philological articles to the best periodicals in Germany. Died Jan. 19, 1874.

Hoff'mann, August Wilhelm, a distinguished German chemist, born at Glessen, 1818, was nominated in His best work is entitled Memoirs on the Molecular Con-

stitution of the Organic Bases.

Hoffman's, in New York, a post-office of Schenectady
co.; formerly called Hoffman's Ferry.

Hoffman's Gas Furnace, n. (Chem.) A furnace for the analysis of organic substances, in which the combustion tube is heated by a number of perforated

clay-burners

combustion tube is heated by a number of perforated clay-burners.

\*\*Hog.\*\* [W. Asech.] (Zozi.) The common name of a well-known pachydermous animal constituting the gen. Sus. in the Suidæ or Swine family. As all the varieties of this useful quadruped are derived from the Wild Boar, we shall proceed to describe that animal before we speak of the domestic species; merely premising that the genus Sus is in some points of an ambiguous nature, appearing to form at once a link between the cloven-footed, the whole-hoofed, and the digitated quadrupeds. The Wild Boar is a native of almost all the temperate parts both of Europe and Asia. We learn from Buffon, that wild boars follow their common parent until they have passed their third year, never wandering alone till they have acquired sufficient strength to resist the attacks of the wolf. "These animals," says he, "when they have young, form a kind of flocks, and it is upon this alone that their safety depends. When attacked, the largest and strongest front the enemy, and by pressing all around against the weaker, force them into the centre. Domestic hogs are also observed to defend themselves in the same manner. The wild boar is hunted with dogs, or killed by surprise during the night, when the moon shines. The wild boar is nigeneral more gaunt and bony, the muscular strength much greater, and the temper far more savenage, than the domestic H. It is of a dark brindled-gray color, or blackish; but when only a year or two old, is of a dull vellowish-brown cast: and when quite voung. age, than the domestic M. It is of a dark brindled-gray color, or blackish; but when only a year or two old, is of a dull yellowish-brown cast; and when quite young, is marked by alternate dusky and pale longitudinal bands along the sides. Between the bristles, next the skin, is a fluer or softer hair, of a woolly or curly nature.

The snout is somewhat somewhat longer in pro-portion than that of the domestic spe-cies; but the principal difthe length of the tusks. Though ordinarily timid an d'inoffen



Fig. 1297. - THE WILD BOAR. (Sus scrofs.)

sive, it is found that the females show the most determined courgive, it is found that the females show the most determined courage when their young areattacked, and defend them with all imaginable fierceness. If two boars chance to meet in the early part of the yoar, at which time the male seeks the female, the most furious encounters ensue. By a forest law of William the Conqueror, (a. D. 1087.) it was ordained that any who were found guilty of killing the stag, the roebuck, or the wild boar, should have their eyes put out.—The common or domestic H. (Sus zero/a) differs from the wild animal principally in having smaller tusks and larger ears, which are also somewhat pendant and of a more pointed form. In color, as well as size, it varies very considerably, but the prevailing cast is a dull yellowish-white, marked or spotted irregularly with black, sometimes perfectly plain or unspotted, sometimes rafous, and sometimes totally black. Of all quadrupeds the H. is the most gross in his manners, and therefore has been regarded as the very personification of impurity. The Jews were strictly enjoined not to eat its flesh; and the Mohammedans agree in this respect with the Mosaic prohibition. In most parts of Europe and America, however, it constitutes a very material area of the food of mankind. The H is an animal of a with the Mosaic prohibition. In most parts of Europe and America, however, it constitutes a very material part of the food of mankind. The H. is an animal of a remarkable prolific nature; and as they bring forth from 10 to 15, and sometimes 20, at a litter, they would soon become very numerous, were they not diminished for the support of man. Their flesh, says Linnseus, is wholesome food for persons of athletic constitution.

sons of athletic constitutions, those who habit-uate themselves to much exercise, but improper for such as lead sedentary lives. It is, however, an article of general con-sumption, and one which is of great importance to a naval and commercial



Fig. 1298, - SUPPOLE HOG.

nation, as it takes sait better than any other flesh, and consequently is capabetter than any other fiesh, and consequently is capa-ble of being longer and more easily preserved than any other. The Jews and the Mohammedans not only abstain from the first of swine from a religious principle, but even consider themselves defiled by touching it. The Chinese, on the contrary, are so excessively fond of pork, that many, owing to this partiality alone, as it is said, have been prevented from conversion to Moham-medanism. The fat of swine differs, in its situation, from that of almost every other quadruped, as it forms a thick, distinct, and continued layer betwixt the fiesh,

and the skin. Lard, which is chiefly obtained from the fat membranes of the abdomen, is applicable to various uses, both cultuary and medicinal; and when good, is white and moderately hard. The skin, when properly dressed, is used for the seats of saddles; it is also employed by various artificers. Great attention has been paid in this country to the improvement of the various breeds; and by judicious crosses much has been effected both as to quality and size. Swine were probably introduced from Spain into Hispaniola by Columbus in 1468, into Florida by De Soto in 1538, into Canada in 1608, and into Virginia in 1609, where they multiplied so rapidly that in 18 years the people were obliged to palisade Jamestown to keep them out. Different breeds are prized in different districts, according to the fancy of producers, the facility of raising them, and the particular object of the farmer. The Chinese H, both the white and black varieties, are easily fatered and have small hones; indeed they are generally properly dressed, is used for the seats of saddles; it is H, both the white and black varieties, are easily fattened, and have small bones; indeed, they are generally too fat to be esteemed as pork, and are considered to make poor bacon. Bred carefully, and mixed with other stock, they are valuable animals. The Nespolitan is the most celebrated of the Italian breeds, doubtless descended from the improved varieties of ancient Rome, and the stock of most of the English breeds. Though scended from the improved varieties of ancient Rome, and the stock of most of the English breeds. Though not very hardy, the flesh is of superior quality. It is small, black, with few bristles, short snout, erect ears, and small bones. Crossed with the Berkshire breed, the form is improved and the constitution hardened, with a remarkable tendency to fatten easily. The Berkshire, an English breed, black or white, is larger than the Neapolitan, with more bristles, and less fat to the meat, which is well suited for bacon and hams. This was formerly preferred above all others in many parts of New England; but its cross with the Chinese is more profitable, as the weight is heavier with light feeding, and the disposition milder. The Essex, crossed with the Neapolitan, is one of the most valuable, and has taken more prizes in England than any other breed. It is black, of good size and symmetry, mild disposition, easily fattened, the meat of excellent quality, and the dressed weight at 12 and 18 months 250 to 400 lbs. It is not subject to cutaneous diseases. The Irish grazier easily fattened, the meat of excellent quality, and the dressed weight at 12 and 18 months 250 to 400 lbs. It is not subject to cutaneous diseases. The Irish grazier is slow in coming to maturity; but crossed with the Berkshire is an excellent variety. The Woburn or Bedford breed was originally sent by the Duke of Bedford to General Washington, and was produced at Woburn, England, by a cross of the Chinese boar and a large English H. When pure they are white, with dark asholored spots. They are of large size, with deep, round bodies, short legs, and thin hair, easily kept, and maturing early. The Middlesex is a popular breed in England, and has been considerably imported into the U. States. It is derived from a mixture of the Chinese with some larger stock. The color is usually white, and the size larger than the Suffolk, weighing at 18 months 800 to 900 lbs. The bones are smaller than in the Essex. But the favorite of all breeds seems now to be the Suffolk, so named from that county in England, whence the London market has long been supplied. The present breed is believed to have originated from the old Suffolk crossed with the Chinese and Berkshire. The pure breed is remarkably symmetrical, small and compact, short-legged, and small-headed, the exact opposite of the long, lank, and lean H. of the western prairies. Their early maturity, small consumption of food, and tendency to fat, compensate for their want of size. The color is white. These are the most esteemed varieties. There are many others, imported and domestic, which thrive well in peculiar districts, and which size. The color is white. These are the most esteemed varieties. There are many others, imported and domestic, which thrive well in peculiar districts, and which are more or less extolled by their respective fanciers. While H. are kept in New England and the Middle States mostly in pens, in the West they are allowed torange in the woods and fields till within 3 months of the time of killing them, feeding upon clover, curn, acorns, and mast. An epidemic disease, known as hog-kolera, proved terribly destructive to hogs in the U.S. in 1870-80. For another disease, dangerous both to hog and to man see TRICHINE.

cholera, proved terribly destructive to hogs in the U.S. in 1870-890. For another disease, dangerous both to hog and to man, see TRICHINE.

A mean, grovelling, filthy, guzzling fellow. (Colloq.)

A two-year old sheep; a hogget. (Used in England.) (Nost.) A brush with a long handle, used for scouring barnacles and sea-weed of a ship's bottom.

—e. a. To clip ar cut short the hair of; as, to hog a horse's mane.

(Naut.) To scrape a ship's bottom under water.

(Note). To scrape a ship so not on under water.

-r. s. To bend, as a ship, so as to resemble in some degree a hog's back;—hence, to be strained out of shape.

-(Collog.) To appropriate the whole or the best of anything without regard to the rights of others.

Hog, s. a. [Ger. hockes.] To carry on the back, as a butcher carries a carcaes.

Ho'gan, in Indiana, a flourishing township of Dear-

Hogam, in Indiana, a flourishing township of Dearborn co.

Hogam, in North Carolina, a P. O. of Bockingham co.
Hogam's, in North Carolina, a P. O. of Bockingham co.
Hogam's, in Tenessee, a post-office of Smith co.
Hogamsburg, in New York, a post-village of Franklin co., about 40 m. N.E. of Ogdensburg.
Hogansville, in Georgia, a post-village of Troup co.
about 13 m. N.E. of La Grange.
Hogansville, in Kanssa, a post-office of Graham co.
Hogansville, in In Sansa, a post-office of Graham co.
Hogansville, in In Kanssa, a post-office of Graham co.
Hogansville, in In Instance of Sir James Thornhill, against her father's consent, and since you have been an apprenticed at an early age to Gamble, a silversmith, but at the expiration of his term, in 1718, he took to engraving in copper of the booksellers. In 1730 he married the only daughter of Sir James Thornhill, against her father's consent, and since you have a possessed a higher creative fancy; and many of his pieces, such as Bonny Kamsay, and many of his pieces, such as Bonny Kamsay, and many of his pieces, such as Bonny Kamsay, and many of his pieces, such as Bonny Kamsay, and many of his pieces, such as Bonny Kamsay, and many of his pieces, such as Bonny Kamsay, and many of his pieces, such as Bonny Kamsay, and many of his pieces, such as Bonny Kamsay, and many of his pieces, such as Bonny Kamsay, and many of his pieces, such as Bonny Kamsay, and many of his pieces, such as Bonny Kamsay, and many of his pieces, such as Bonny Kamsay, and many of his pieces, such as Bonny Kamsay, and many of his pieces, such as Bonny Kamsay, and many of his pieces, such as Bonny Kamsay, and many of his pieces, such as Bonny Kamsay, and many of his pieces, such as Bonny Kamsay, set up for himself as a portrait-painter with considerable success. H. now commenced his remarkable series of satirical paintings reflecting on the social abuses of his comes a teg in

time: — viz., the Harlo's Progress in 1734; the Rake Progress in 1735; and the Marriage d la Mode in 1745, now in the National Gallery. In 1753 he appeared as the



Fig. 1299. — HOGARTH'S HOUSE AT CHISWICK, (Eng.)

author of smalysis of Beauty, written with a View of Fixing the Fluctuating Ideas of Taste. In 1757 H. was appointed serjeant-painter to the king: he D. in London, Oct. 20th, 1764, and was buried at Chiswick. H. was a good painter as well as a great satirist.

Hog Bramch, in Louisiana, a village of St. Helemannish

Hog Creek, in Ohio, a village of Allen co.

Hog Creek, in Obio, a village of Allen co.

Hogentown, (ho'ps-town,) in Pennsylvania, a postvillage of Cumberland co., abt. 9 m. S.W. of Harrisburg,

Hog Head, a promontory on the W. coast of Ireland,
at the mouth of the Kenmare River.

Hog Islands, a small cluster of islets off the coast
of co. Kerry, Ireland, near the embouchure of Kenmare
River.

Hog'-backed, a. Having a curved back like that of

Hog-cote, a. Having a curved back like that of a hog, as a ship.

Hog-crete, n. A place for the keeping of swine; a sty.

Hog-frame, n. (Naut.) A fore-and-aft frame, usually above deck, and forming, together with the frame of the vessel, a trust to prevent vertical fluxure. Used chiefy in American river and lake steamers, and called also because frame.

in American river and lake steamers, and called also hopging: frame.

Hoggs, James, an English poet, popularly known as the "ETRICK SHEPHERD", S. 1772. He belonged to the vale of Ettrick, in Selkirkshire, where he followed the pastoral occupation of his ancestora. His first published song, Donald Macdonald, acquired extensive popularity. After several successful literary efforts, the most considerable of which was a volume of ballads called The Mussacian Sminstrel, H., who had failed in sundry sheep-farming speculations, removed to Edinburgh in 1810, with the view of living by his wits. He there published a volume of songs, The Forest Minstrel, and conducted a periodical called The Syn, which existed for about a year. It was not, however, until the appearance of The Queen's Wake, in 1813, that he became greatly distinguished as an author. Besides The Pilgrims of the Sun, Queen Hynde, and other poetical works, H. wrote numerous tales and novels, few of which are now much read. He was on terms of friendship with Scott, Wilson, and other literary



Fig. 1300. - BIRTH-PLACE OF THE " ETTRICE SHEPHERD."

magnates of Edinburgh, and the manner in which he was made to figure in the celebrated Noctes Ambrosicase of Blackwood's Magazine — although sometimes complained of by himself—contributed not a little to his fame. With less masculine sense than Burna, and far inferior in tender and passionate carrestness, he yet possossed a higher creative fancy; and many of his pieces, such as Bonny Kümeny, are marked by a certain wild and dreamy faccination, unlike anything else with which we are acquaint.d. D. 1835.

Hog'gen, n. [Cornish.] The tinner's pasty.

Hog'ger, n. A stocking without a foot, worn by miners working in coal-pits.

Hog'gerel, Hog'grel, n. [See Hoo.] A two-year old sheep; a hogget.

log get, n. A sheep of the second year. A lamb comes a teg in its first winter, and afterwards a begget;

Digitized by GOGIE

1521

a hoiden or tomboy.

Hogging, n. (Naut.) An undue falling of a ship's head and stern, in consequence of weakness in the keel, or in the tie provided by the decks. H. may be immediately caused by the suspension of the ship on a ware amidships, or by her taking the ground in the middle.

Hogging-framme, n. (Naut.) See Hog-framz.

Hogging-framme, n. (Naut.) See Hog-framz.

thoggish, a. Having the qualities or characteristics of a hog; swinish; gluttonish; brutish; filthy; meanly seelish.

Act of hoisting, raising, or lifting. (Used colloquisally—The term publish to the appearance and the supervisor of the supervisor and the supervisor

selfish.

Heggishly, adv. In a coarse, brutal, filthy, or glut

tonous manner.

Hog'gishness, n. Quality of being hoggish; brutish-

ness: leastly filthness; mean selfishness; voracity in devouring food.

Hoggerl, n. Same as Hoggerl, q. v.

Hogger's Falls, in Kennicky, a village of Ohio co., on

Hogg's Falls, in Kesnety, a village of Ohio co., on Green river.

Hog'herd, s. A swineherd; a keeper or tender of hogs.

Hog'house, s. (Zoll.) See Oriscus.

Hogmanay', s. (Corrupted from Norm. Fr. au gui menes, lead to the misitetoe.) In Scotiand, a popular name given to the festival of New-Year's eve.

Hog'mut, s. (Zoll.) See Hickort.

Hogo, s. A vulgar corruption of Haur-cour, q.v.

Hog-pea'mut, s. (Bot.) The Pea-vine. See Amphicars.

Hog'pen. s. A hoggetter.

Hog'-pen, n. A hog-cote; a pen or sty for hogs.

Hog'-plum, n. (Bot.) See Spondias.

Hog'-ringer, n. One who fastens rings in the snouts

or nogs.

Hog River, in Michigan, enters the Coldwater River in Branch co.

Hog's Found, n. (Bot.) See Pencedanum.

Hogshead, (hogshed, n. [D. okshoo'd; Dan. oxehoved; Guel. tocadd; probably a corruption of ox-hide, and originally used to signify as much liquor as filled an originally used to signify as much liquor as filled an originally used to signify as much indoor as inter an ox's hide or skin.] A large cask, usually containing from 100 to 140 galls. (U. States.)—An English measure of capacity, containing 63 imp. wine gallons, or about 52½ imperial gallons; as, a hogshead of ale.

Log:—shearing, a. Rumpus; great cry and little wool; much ado about nothing;—used in a ludicrous

Hog skin, n. The skin of swine tanned into leather.
Hog s-lard, n. The fat of hogs; lard of swine.
Hog sties, a group of dangerous rocks and islets of
the Bahama Group, W. Indies, abt. 38 m. N.W. of the
Great Inagua.

the Bahama Group, W. Indies, abt. 38 m. N.W. of the Great Inagua.

Hogr-sty, n. A pig-sty; a hog-cote; a pen for hogs.

Hogree, (La,) (hôg.) See Cape La Hooue.

Hogree, (La,) (hôg.) See Cape La Hooue.

Hogree, (La,) (hôg.) See Cape La Hooue.

Hogree, (n. (Bot.) See Ambroga.

Hogr-weach, n. (Bot.) See Ambroga.

Hohembin'dem, a village of Bavaria on the Iser, near Eversburg, and 33 m. E. of Munich. Here in 1800 the Freich, under Moreau, defeated the Austrians commanded by the archduke John, which event brought About the peace of Luneville.

Hohembin'dem, in Mississippi, a P. O. of Webster co.

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Hohembin'dem, in Mississippi, a P. O. of Webster co.

Hohembin'dem, in Mississippi, a P. O. of Webster and warsenic commission.

1268, he was made prisoner and beheaded at Naples, Oct. 29, 1268.

Hohenstein, (hö'hen-stin.) a town of Prussia, in Saxony, 6 m. from Chemnitz. Mines of silver and arsenic are situated near it. Pop. 6,746.

Hohenscollern, (hō-hen-sol'lern.) (Hist.) The royal house of Prussia was founded by Count Thassilo, who built the castle of Zollern, afterwards called Hohenschlern (High-Zollern), in 800. The castle was greatly enlarged by Frederick, the first Count of Zollern, in 980. Frederick III. gained the title of prince and the government of Nuremberg in 1273. In the 16th century the house separated into two branches, the younger of which subsequently became kings of Prussia, while the elder remained princes of H. Frederick VI., of the younger line, received the province of Brandenburg from the emperor in 1411; his successor acquired the territory of Prussia in 1660. Another Frederick made himself king of Prussia, Jan. 18, 1701.—The principalities of Hohenschlern-Hechingen and Hohenschlern-Sigmaringen, for many centuries in the possession of the elder line, were united with Prussia by treaty, March 20, 1850, and now form a province, consisting of a narrow strip of land entirely surrounded by the territories of Würtemberg and Baden. Area, 480 sq. m.; pop. 64,632.

Hohe Kus, in New Jerey, a post-village and township of Bergen county, about 34 m. N.N.W. of the city of New York.

Holden, Hoy'den, n. [W. hooden, a woman of doubtful fame.] A rude, awkward, bold, skittish girl; a romp; a tomboy.

—a. Rude; awkward; bold; skittish; country-bred; inclegant.

—r. n. To romp rudely or indecently; to play the part

elegant.

-r. n. To romp rudely or indecently; to play the part

of a tomocy.

"The wenches had been holdening with the young apprentions"

Swift.

and, on losing its coat, a shear-hog. — Also, a two-year | Hoi'denhood, Hoy'denhood, n. State of being | a holden or tombov.

HOLC

to hoist a sail, flag, &c.

-n. Act of hoisting, raising, or lifting. (Used colloquially.)—The term applied to the apparatus used in factories, mines, hotels, &c., for the purpose of raising persons, or things, from one level to another; the manengines are a kind of hoist, as also are the hydraulic cranes

gines are a kind of holat, as also are the hydraulic cranes now in general service.

(Naut.) The perpendicular height of a sail, flag, &c.;
—in opposition to the fly, or extent from the mast or pole to the outer edge.

Hof'ty-tof'ty, a. [Equivalent to Scot. hoot-tot.] Flighty; giddy; thoughtless; harum-scarum; gay; noisy; — used, generally, as an exclamation implying surprise or displeasure, with some degree of contemptuous indifference.

"Hoft-circle Whethers Lto do with descriptor." Conserved.

"Holty-toity ! What have I to do with dreams ? " — Co "Hoth-toty! What have I to do with dreams!" - Congress.

Ho'kah, in Minnesota, a post-village of Houston co., on
the Hokah or Root River, about 7 m. S.W. of La Crosse.

Hokah (or Root) River, in Minnesota, enters the
Mississippi River below La Crosse. Length, abt. 130 m.

Hoke'-day. See Hoct-Day.

Hokeudau'qua, in Finnsylvania, a post-village of
Lehigh co., on the Lehigh River, about 1 m. above Cataannua.

auqua.

Ho?R., Ho!?R., interj. Hollo! hey there! shoy!

Ho?R.dRay's, in towa, a post-office of Adnir co.

Holbach, Paul, Baron D', (hôt'bak.) a German writer,
s. at Heidelsheim, in the Palatinate, 1723, who was educated at Paris, and passed almost all his life there. Ha

allied himself with the leaders of French thought, the

philosophers of the Encyclopédie, entertaining them at

aummtunus suppers, and encuraging the freest atterance philosophers of the Encyclopedic, entertaining them at sumptuous suppers, and encouraging the freest utterance of their most extreme opinions. He was in philosophy a pure materialist, and wrote numerous works under an assumed name, and contributed to the Encyclopedic numerous articles on natural history, politics, and philosophy. The most famous of the works written by H. wholly or in part, is the Système de la Nature. D. 1789.

Hol'heach, a market-town of England, co. of Lincoln, 37 m. 8.8.6 of Lincoln, 89 m. N. of London. H. has a fine Gothic church. Php. 4.021.

Hol'heain, Hans or Johann, one of the most famous German painters, s. at Augsburg, about 1495, learned the elements of his art from his father, whom he soon excelled. His talent procured him the friendship of

the elements or his art from his father, whom he soon excelled. His talent procured him the friendship of Erasmus, for whose "Praise of Folly" he drew several whimsteal designs. At the recommendation of Erasmus he came to England, and was employed first by Sir Thomas More, who introduced him to Henry VIII. He rose to the senith of fortune in that monarch's court and painted a great number of portraits which are still



Fig. 1301.

considered masterpieces of art. He died of the plague in 1543. His style is manly and correct, but hard and formal: the character, however, and individuality of many of his portraits, are evidently exact and masterly. (See Figs. 539, 1801). He painted some religious and historical pieces; his masterpiece is perhaps the Fumily of the Burgomaster Myer, now in the Gallery of Dresden. H. is also the author of a very celebrated series of designs, known as the Dince of Death, cut in wood and first published at Lyous in 1538; afterwards copied by Hollar and others. See Macabba (Daxek).

Hol'brook, in New York, a village of Suffolk co. Hol'cad, a. [Gr. olkudos, a ship of burden.] An ancient Greek vessel of large tonnage.

Hol'comb Valley, in Illinois, a post-village of Ogle co., on the C. B. & Q. and the C. Gt. W. R.R.

Hol'cus, n. (Bot.) A genus of plants, order Grassinacez, the species of which are natives of Africa and Asia. H. succharatus, the Sorghum succharatum of some butanists, is called the North China sugar-cane or sweet sorgho, and is much cultivated in China and other parts for the sake of its sugar; it is said to yield from 10 to 15 per cent. of the product. Its win is estate in the contraction of the parts for the sake of its sugar; it is said to yield from 10 to 15 per cent. of the product.

parts for the sake of its sugar; it is said to yield from 10 to 15 per cent. of this product. Its g ain is eaten in

Africa, and is termed dockms. The plant has lately been introduced into the U. States, and is nighly recommended by some agriculturists for cultivation as a substitute for the sugar-cane. H. sorgham (Sorgham sulgare, or Ardropogon sorgham) is extensively cultivated in many parts of Africa, in Turkey, and in India, for the sake of its grain, which is known by the name of Guisec corn, durra, Turkish millet, and juar. This grain is much used as human food in warm countries. A kind of beer, called bouza, is prepared from it. The stalks of the plant are used to make whisks and carpet brooms. H. landsta, the soft grass, is the only N. American species.

plant are used to make whisks and carpet brooms. H. lanches, the soft grass, is the ouly N. American species. Hedd, v. a. (imp. HELD: pp. HELD, and, sometimes, HOLDEN.) [A. S. healtan; Dan, holde; Irel. hallda; probably skin to Heb. hal, to hold up, to sustain]. To have in the grasp; 20 keep; to have fast; to retain; to come in a given position or relation, or within certain limits; to stop; to restrain from escape.—To detain; to maintain; to defend; to keep possession of; to exert authority over; to secure in one a own keeping.

—To have or possess by title, as lands; to be in possession of; to occupy; to own by proprietorship.

"Holding Corioli in the name of Rome."—Shak.

—To fix: to comme it opherwor fulfil: to restrain from

To fix; to compel to observe or fulfil; to restrain from motion; to bind, legally or morally; to limit in scope of action; to confine.

"He had not sufficient judgment and self-command to hold his tongue."—Macsulay.

To continue; to prosecute or carry on, as a line of argu-ment, or course of conduct; to keep up in action or pro-gress; to austain in proceeding forward.

"Night and Chaos . . . Acid eternal anarchy." — Miton.

"Night and chaos ... sous seems anarony." — More.

"To contain, or to have capacity to receive and contain; to measure in containing power; as, a hogshead holds 63 gullona. — To consider; to think; to regard; to judge; to maintain, as an opinion; to esteem; to account.

"I hold him but a fool, that will endanger His body for a girl that loves him not."— Shake

To celebrate or solemnize, as a feast; to direct and cause to take place officially; to tend to bring about that which is the result of united deliberation or action; as, to hold a meeting, to hold a court, to hold counsel together, &c.

"The queen this day here helds her parliament.

To handle; to manage or treat intellectually; to accept, as an opinion; to maintain or persist in, as a resolve; to be committed to, as an open or secret adherent; to retain, as force of will.

Thereupon they . . . held them battle a long season." I Mose, vi. 52. To hold forth, to offer; to exhibit; to propose; to ad-

Christianity came into the world . . . holding forth nothing pietr." — Temple.

but picty."— Temple.

To hold a wager, to lay, stake, or hazard a wager; to make a bet. — To hold in, to restrain; to curt; to bridle.

"These men wish they had held themselves longer in."

(Hooker.)— To hold of, to keep away or at a distance. —

To hold on, to continue; to protract; to proceed in; as, the ship held on her course. — To hold out. (1.) To extend; to stretch forth; to profier. "Fortune holds out these to you as rewards." (Ben Jonson.) (2.) To continue to do or suffer; to endure; to sustain; as, the fort held out till the last.

To hold one's own, to keen what belongs to one's self:

held out till the last.

To hold one's own, to keep what belongs to one's self; to retain a present state or condition; not to lose ground or fall off.— (Naut.) To keep up in salling; as, the ship holds her own with the fastest.— To hold up, to sustain; to support; to raise; to lift; to keep to the mark; as, to hold up the head.

"Heir from beit shall hold his quarrel up."— Shahs.

Held, v. n. To continue firm or fast; to remain fixed; as, the employ held.

as, the anchor holds.

as, the ancillo masses.

To be true; to endure; to remain valid; to stand, as a fact or truth; as, the rule holds good.—To remain sound, intact, or unbroken; to be unsubdued; not to fail; to persist; to abide.

"Our force by land hath nobly held." — Shaks.

"Our force by land hath nobly Acid." — Shaks.

To halt; to stop; to cease motion or action.

"Dam'd be him that first ories." Hold, enough!" — Shaks.

To remain attached; to cleave; to adhere; not to fall away, part from, or desert; sometimes proceding for, to, or writh; as, they hold to their principles, I hold the same opinion writh you. — To refruin; to place a check or restraint on one's self; — generally before from; as, she with difficulty held from using her tongue. —
To derive right; to admit dependence on, as for enjoyment of estate, &c.; to draw or deduce title; — usually preceding of; as, he holds his lands of the crown.

"The great baroas had ... petty baroas helding under them."

'The great barons had . . . petty barons holding under them."

To hold forth, to speak or preach publicly; to harangue: to proclaim.

petty conjurer . . . hold forth in the market-place." To hold in, to restrain or command one's self: as, he could hardly hold in his mirth. — To continue fortunate or in luck. "The duke, playing at hazard, held in a great many hands together." (Swift.) — To hold off, to keep at a distance or aloof from; to avoid contact with. — To hold on, to cling; to take firm hold; to continue without interruption

without interruption.

"He held on, however, till he was on the very point of breaking.

L'Estrange

To hold out, to last: to endure: to continue: not to break down or give way; not to yield or be subdued; as, our provisions hold out well.

"My eyes grow womanish, but yet my heart holds out." - Dryaen To hold over, to remain in possession of place, position, or residence beyond the usual limitation of term. — To

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iong.

"These old Gothic castles hold logsther only, as it were, by rags and patches." — Dryden.

To hold to or with, to adhere to; to cooperate, or take sides with; as, he held to his own opinions. — To hold to or with, to any the his own opinions. — To hold to or with, to any the his own opinions. — To hold the property of the pro

"Let but them find courage to lay hold on this occasi Something which may be selzed for support; that which sustains one, or which one takes hold of, or hangs on by.

"Without a good hold, (a man) is ready to fall." - Ba Power or influence operating on the mind; advantage that may be employed in directing, persuading, or controlling another; as, I have a hold upon him.

"Fear is that passion . . . by which God and his laws take the surest hold of us." — Tillotson.

Authority, power, or claim to take and keep.
"On your vigour now, my hold of this new kingdom all depends.

-A prison or place of confinement; durance; custody.

"The prisoner to his hold retired."—Drydon.
A place of security; a fortified place; a fort; a castle

a stronghold. " Captain of the hold."-Secti

a stronghold.

"Captain of the hold."—Seet.

(Mar.) The inner cavity of a vessel below decks, divided into compartments by bulkheads across, for the reception of bulkst, water, provisions, and, chiefly, cargo. The divisions of a hold are termed the after-hold, main-hold, and fore-hold, respectively, with reference to their several positions in the ship.

(Mus.) Same as PAUSE, q.v.

Hold back, n. Restraint: check; obstacls.—A contrivance, of iron or leather, attached to the thill of a vehicle, and connecting with the harness, to hold back the conveyance when going down hill, or in backing.

Hold'em, in Maine, a post-township of Penobecot co.

Holdem, in Mainechusells, a post-township of Worcester co. Pop. (1896) 2,475.

Holdem, in Misnechus, a post-township of Goodhue co.

Holdem, in Misnechus, a post-township of Goodhue co.

Holdem, in Misnechus, Pop. (1897) abt. 2,650.

Hold'er, n. One who holds or grasps in his hand, or embraces with his arms; also, one who confines, maintains, possesses, &c.—That by which anything is held; as, a kettle-holder.—(Naut.) A person employed in a ship's hold.

Hold'er-forth, n. O. who holds forth, harangues, preaches, or proclaims.

preaches, or proclaims.

Hold'erness, a fertile district of England, in Yorkshire, lying between the Humber and the North Sea; pop. 24,000.

Hold'erness, in New Hampshire, a post-township of

Grafton co.

Held'fast, m. Any contrivance used to fasten or hold something else, as a catch, a hook, a button, &c.

Hold'fag, m. Act of keeping hold of or retaining.

A tenure; a farm held of a superior or manorial pro-

prictor.

"Holdings were plentiful, and holders source."

"Holdings were plentiful, and holders scarce."—Cures.

—Hold; influence; power; that which binds, holds, influences, or controls.

Hole, n. [A. S. hol, hal; D. and Icel. hol; Ger. höhle; akin to Gr. hoilos. hollow.] A hollow place or cavity in any solid body; a pit; a cavern; a cave; a concavity; an opening in, or through, a solid body; an aperture: an interstice; an excavation; a perforation, and the like; as, a hole in a wall. — A cell; a den: a burrow made by an animal for its liabitation, or a natural aperture tenanted by an animal; — hence, by implication, any mean habitation, or narrow, dark lodging.

"Thou art content to live within the little hole."—Prodes.

"Thou art content to live within this little hole.

An opening or means of escape; a shift; a subterfuge; as, he found a hole whereby to creep out of the dilemma.

as, he found a hole whereby to creep out of the dilemma.

—v. n. To go into a hole.

—v. a. To cut, dig, or make a hole or holes in; as, to hole
a boot for the insertion of pegs or nails. — To chase
into a hole, as an animal, or into a pocket, as in billiards.

Hol'ibut, n. (Zoöl.) Same as Halibur, q.v.

Hol'idom, n. Same as Haliburs, q.v.

Hol'idom, n. Same in haliburs, q.v.

Holidom, n. Same in haliburs, q.v.

a. Holidom, n. Same in haliburs, q.v.

—a. Pertaining, or having reference to a day of feativity, or cessation of labor: gay; sprightly; as, the people are in holidoy costume.

are in holiday costume

"Courage is but a holiday kind of virtue."—Dryden.

Holigar'ma, n. (B.d.) A genus of plants, order Anacardiaces. The fruits of the species H. longifolia, with those of another plant of the same order, furnish the black varnish of Sylhet, which is much used in India for lacquer-work. See Semicarpus.

Ho'lly, adv. [From holy.] In a holy manner: devotionally; plously; with sanctity.— Inviolably; sacredly; hermetically; as, the secret was kept holily.

Add together, to remain in union; to be joined in coali-tion of cohesion; as, the insurgents cannot hold together long.

He lineau, n. State or quality of being holy; moral purity and integrity; piety of heart, mind, or disposi-tion; sanctity of character; freedom from sin; moral

hollo.

"What hollesing and what stir is this to-day?"— Shake.

Hell'amd, or The Netherlands, comprising the territories formerly included within the Saven Unitzo Previnces, now a secondary kingdom of Europe, but which, in the 17th and 18th centuries, was an independent republic, raised by the industry, economy, and enterprise of its inhabitants to the first rank as a maritime and commercial power. The kingdom of H. (inclusive of Dutch Limburg and Luxemburg) lies in the N.W. part of the European continent, between Lat. 51° 12° and 5° 30° N., and Lon. 3° 22° and 7° 12° E., having E. the Prussian, Rhenish, and Hanoverian provs., 8. Beigium, and W. and N. the German Ocean, or North Sea. Length, N.E. to S.W., abt. 200 m.; average breadth, abt. 65 m. The W. half of Limburg, which belongs to H., joins the above territory on the S.E., and is inclosed by Belgium W. and S. and E. by Rhenish Prussia. That part of the grand-duchy of Luxemburg which belongs to H. is situated between Lat. 49° 28° and 50° 13° N., and Lon. 5° 45° and 6° 30° E.; it is detached from the rest of the Dutch dominions, and surrounded by Prussia, Belgium, and Revence - Publishous. The toplowing table shows and or ov s.; it is detached from the rest of the Dutch dominions, and surrounded by Prussia, Belgium, and France.—Pulitical Divisions. The following table shows the area and population of each of the eleven provinces of the kingdom, and the census of 1892:

Provinces.	Area. eq. m.	Population, 1892.	Provincial Capital,
Groningen	887 1,280 1,030 1,291 1,957 530 1,070 1,160 690 1,980 850	279,397 336,442 135,658 302,508 523,039 229,054 878,896 1,002,144 202,709 519,022 261,853	Groningen. Leeuwarden. Assen. Zwolle. Arnhem. Utrecht. Haarlem. The Hague. Middleburg. Bois-le-Duc. Maastricht.
TOTALS.	12,120	4,009,510	

The greatest density of population in the Holland provinces is explained by the character of the soil, the variety of industries, and the great number of large towns; all the towns with 100,000 inhab, and upwards (Amsterdam Rotterdam and the Hague) being situated in the province of Holland. The pure Dutch, or Notherlanders, numbering from two and a half to three millions, inhabit the provs. of N. and S. Holland, Zealand, and Utrecht, and Guelderland; the Frieians, speaking a dialect of the Untch language, are dispersed, to the unumer of perhaps half a million, through Overyssel, Drenthe, Groningen, and Friesland; while N. Brabant is almost entirely inhabited by a Flemish population. Gen. Desc. With the exception of some insignificant hill-ranges in Quelderland and Utrecht, and a few scattered heights in Overyssel, the whole kingdom is a continuous flat, partly formed by the deposits brought down by the rivers in tersecting it, and partly won by human labor from the sea, which is above the level of a considerable portion of the country. Holland is consequently at all times liable to dangerous inundations. The west coast, however, from the Helder to the Hook of Holland, is partially protected by a natural barrier composed of a continuous gaze of sand-like or drages thrown up. of the country. Holiand is consequently at all times liable to dangerous inundations. The west coast, however, from the Helder to the Hook of Holiand, is partially protected by a natural barrier composed of a continuous range of sand-hills, or dunes, thrown up by the sea, of great breadth, and frequently 40 or 50 ft. in height. In other parts of the country, particularly in the provs. of Zealand, Friesland, and Guelderland, thesea is shut out by enormous artificial mounds or dikex, any failure in which would expose extensive districts to the risk of being submerged. In nothing, indeed, is the industry and perseverance of the people so exemplified as in the construction and maintenance of these dikes, the extent of which is inumense, and the labor and expense required to keep them in repair very great. The most stupendous of these works are the dikes of West Capelle, in the island of Walcheren, and that of the Helder.—Rivers. The rivers of H. have mostly a W. or N. direction. The principal is the Bhine, which, for the most part, separates N. Brabant from Guelderland and S. Holiand, and gives off several branches; the Meuse traverses the S. E. part of Holiand; the Scheldt, its S.W. extremity. The Mense, Ithine, and Scheldt, all discharge into the N. Sea. The sectuary of the Ems forms the N. W. boundary of the kingdom. Lakes are extremely numerous, especially in the N. provs.; and there are also some extensive marshes.—Islands. The islands may be classed in groups: the S. group, composing a great art of the province Zealand and a portion of Holland, is formed at the mouths of the principal rivers, and comprises Cadsand, N. and S. Beveland, Walcheren, &c.; the N. group follows the coast-line stretching from the Helder to near the mouth of the Ems, and includes the Faxel. Vileland, Schelling, Ameliand, &c.—Clim. The climate, generally, is variable, and the atmosphere much

loaded with moisture, especially in the W. provs. The mean temperature of the year throughout the countries stated to be 47° Fahr. In winter, N. and N.E. wise are common; snow falls abundantly, and even the Zuyder-Zee is sometimes frozen over. — Nat. Pred. The soil is almost everywhere alluvial clay and sand. H. possesses little, if any, mineral wealth. It has no mines of any description. No coal deposits are found, but extensive beds of marize peat, of a most excellent quality, abound. Potter's clay, fuller's earth, and some cakereous products, are met with, but scarcely any stone is found from one end of the country to the other. The kingdom contains very little wood. There is some timber in the E. provinces; and at the Hagne, Utrecht, and haarlem, there are woods of oak, elm, and beech, but, generally speaking, most of the trees have been planted. The principal canals, especially in and near the towas, are lined with rows of willows and poplars; and in various places along the sandy shore, firs are produced, In either respects the vegetation is very similar to that of England. The soilogy, also in most respects, is like that of the S. and central part of Great Britain. Hares and rabbits are plentiful, but not winged game. The pools and marshy grounds abound with frogs and other reptities, which form a favorite food for storks. These birds are particularly numerous in H., and great favorites: — heavy nemalties being enforced on their wiful and rabbits are plentiful, but not winged game. The pools and marshy grounds abound with frogs and other reptities, which form a favorite God for storks. These birds are particularly numerous in H, and great favorites;—heavy penalties being snforced on their wilful destroyers. Water-fowl are very abundant. Fish is obtained in large quantities, and the herring fishery forms a most important source of wealth.—Canals, &c. The general sapect of H. is different from that of any other country in Europe. Its surface presents one vast network of canals, the greater number of which are appropriated to land-drainage; many, however, are navigable by large vessels. The principal is the Grand Ship Canal of N. Holland, between Amsterdam and Nieuwdiep, on the Helder. This noble work, the greatest of its kind in Europe, is about \$1 m. long, 125 feet wide at its surface, and 36 at bottom, with a depth of 20 feet 9 inches; constructed at a cost of \$4,760,000. The facility with which the country may be laid under water, contributes materially to its strength in a military point of view. This, indeed, is not a resource to be resorted to, except on extreme occasions; but it was repeatedly made use of in the war of liberation, and also in 1672, when Louis XIV. of France invaded the country. The roads and private estates are commonly fenced by canals or ditches alone; hedges being extremely rare. The highways in the central provinces are among the best in Europe. Water-carriage is, however, the main system of transport which obtains in H.—Agric. The principal grains cultivated are rye and buckwheat; next to these come oats and barley. About 1,000,000 lasts of wheat are grown yearly, the bulk of which is consumed in distilleries, and starch and other manufactories. Pulse and garden vegetables are abundantly raised, besides woad, millet, and madder. Flax is also produced in large quantities. The vine is cultivated in Luxemburg. Utrecht and Guelderland are noted for their tobacco. Potatoes, henp, chiccory, rape-seed, beet-root, hops, an



Fig. 1302. - THE TOWN-HALL, UTRECHT.

some medicinal herbs, are the other chief articles of produce. The ancient passion of the Dutch for tulips and other bulbous plants still exists, though now confined within reasonable limits; there are some large flower-gardens, in the neighborhood of Haarlem particularly, from which great numbers of bulbs are annually exported. The rearing of live-stock is a much more important source of national wealth than tillage. The horned cattle of N. Holland are celebrated for their beauty; in S. Holland, they resemble the bevon breed. The Dutch horses are good, and well adapted for draught; the best are those of Frieeland. The breeds of sheep are bad or indifferent, but they yield a great deal of coarse wool. Dairy husbandry is carried on to a great and profitable extent; large quantities of butter, and an estimated annual expert of 340,000 cwt. of cleese, are sent to England.—Messef. some medicinal herbs, are the other chief articles of

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The principal manuf. are those of cotton and woollen cloths, particularly the former. There are, besides, others of silks, and velvets; of paper, leather, hats, cordage, needles, white-lead (the best in the world), borax and other chemicals, colors, tobacco, and liquors. Sugarrefining is largely operated in, and at Utrecht and Leyden immense quantities of bricks and ities are made. Lapidaries' work obtains a famous repute for Amsterdam. Ship-building is another important branch of industry.—Colonies and Ches. The commerce of the Dutch was formerly the most extensive carried on by a European power; and the wealth which it brought into the country furnished her with the means of supporting the vast expense of her lengthened struggle with Spain, and of her subsequent contests with France and England. The circumstances under which the Hollanders have been placed, the natural poverty of their soil, and the necessity of unremitting vigilance to prevent its being submerged, made industry and economy a condition of their assistance. H being destitute of iron, coal, timber, and many other indispensable articles, the prosecution of commerce is there not a matter of choice but of necessity; and hence it is that, in the earliest periods, we find the Bataxine distinguished for their selection interesting interesting the principal districtions of their soil, said should be a submitted for their selections, their shipsing their starts shipping. commerce is there not a matter of choice but of necessity; and hence it is that, in the earliest periods, we find the Batavians distinguished for their fisheries, their shipping, and their commercial enterprise. For a lengthened period they engrossed nearly the whole sea-fishery of Europe, and they were long the carriers and factors of the principal European states. Holland was still, at her emancipation from the French yoke, in 1814, the richest country in Europe. An abstract of the colonies possessed by Holland is as follows:

Foreign Possessions.	Area Eng. sq. m.	Population.
EAST INDIES. Java, Madura, Borneo, Sumatra, and W. Coast of Celebes, the Moluccas, &c	690,481	28,350,661
and Surinam	54,187 10,625	85,792 110,118
Total.	755,293	28,546,571

The foreign trade, although less than it was formerly, still continues to be considerable in proportion to the size of the country. The total value of exports for the year 1896 was \$451,200,000, of which \$14,900,000 was to the U. S. 10 imports, \$577,500,000, \$44,200,000 from the U. S. In these statistics the Dutch colonies include their quota,—Gost. &c. The Netherlands form a constitutional monarchy, under a fundamental charter (grand over) pruclaimed in 1848. This charter vests the whole legislative authority in a parliament composed of two chambers, called the States General. Both chambers are elective, and the second has alone the initiative of new laws and the origination of financial measures. The executive power is in the hands of the sovereign, and exercised by him through a council of ministers, consisting of 7 depts, vix., those of the Interior, Finance, Justice, Colonies, Fureign Affairs, Marine, and War. There were on Jan. 1, 1896, 1,632 miles of railway in operation: while the State tolegraphs had a total length of 3,497 miles, with 12,511 miles of wire. The army in 1896 had a total strength of 26,972 men and 1,882 officers; the navy comprised 10 ironclads, 12 ironclad monitors, 37 torpedo beats and other vessels. The revenue for 1896 was \$62,343,318; expenditures, \$64,312,584; public debt, \$429,117,000.—Religion, Education, \$c. The religion officially recognized by the state is Protestant, but the freest liberty of conscience, and complete social equality is granted to the members of all religious professions. Education is well conducted, and very generally diffused.—Tities. The Haque is the state cap, and, besides the chief provincial cities before mentioned, the principal places remaining are Leyden, Haarlem, Dordrecht, Nimesquen, Delft, Zwolle, Kampen, and The Helder.—Hist. In the time of the Romans, H. was inhabited chiefly by Batavi and Pristi, (q. v.) In the reign of Vitellius the Batavians endeavored unsuccesfully to free themselves from the Roman yoke; in the 2d century their country was ov ac. In 1383, however, by marriage and otherwise, the whole passed into the hands of the dukes of Burgundy; thence to the house of Austria; and, lastly, in 1548, under the rule of Charles V. The union with Spain was a calamity for H. The Dutch had long been in the enjoyment of many political rights and privileges; they had extensive fisheries and trade, and they had, as a majority, embraced the doctrines of the Reformation. Philip II., who regarded the privileges enjoyed by the Hollanders as usurpations on his own prerogative, and who aborred the Reformed faith, resolved to recover the former, and to suppress or extirpate the latter. To accomplish this double end, he sent in 1567 the Duke of Alva (q. v.), with a powerful army, into the Low Countries. But the proscriptions and massacres with which this sanguinary though able soldier filled the country failed of their object. The Dutch, instead of being subdued, were at length driven into open rebellion. The malcontent captured the Briel in 1572; and after a struggle unequalled for duration, for the sacrifices it imposed on the weaker party, and for the importance of its results, the independence of the republic of the Seren United Provinces was acknowledged by Spain in 1609. Except

that it was occasionally darkened by intestine feuds, the half century that succeeded this event is the brightest in Batavian annals. The commerce of H. attained to an unrivalled magnitude; and while she extended her colonies and conquests over some of the most valuable provinces in the E. and W. Indies, she successfully resisted Louis XIV, contended with England for the empire of the sea, and was justly regarded as one of the bulwarks of the Protestant faith. From the death of Louis XIV down to the French Bevolution, the influence of H. gradually declined, not so much from any decay of her own resources as from the superior growth of commerce and manufactures in England and other states. The policy of H. had long been peaceful; but states. The policy of H. had long been peaceful; but that did not protect her from being overrun by revolutionary France. In 180d, she was erected into a kingdom for Louis, a brother of Napoleon I.; and on the latter's downfall, she was united with Belgium, and formed into a monarchy under the house of Orange, the foundary of her liberties, but this union was passe conful. onto a monarchy under the nouse of Orange, the founders of her liberties; but this union was never cordial. The Dutch and Belgians are, in fact, totally dissimilar in their religion, character, and pursuits; and the connection between them was dissolved by the revolt of the Belgians soon after the French Revolution of 1830. H. therefore has now nearly the same limits as before her occupation by the French in 1795.

HOLL

RULERS OF HOLLAND. (From the date of revolt against the Spanish yoke.)

STADTHOLDERS.

1559. William I. of Orange, 1584. Manrice (of Nassa (surnamed the Tacitotturn.) 1647. William II.

REPUBLIC.
1650. John De Witt, (Grand-Pensionary.)

STADTEGLER.

1672. William III., (elected king of England.)

REPUBLIC.

1720–1770. Heinsius, (Grand-Pensionary.)

STADTHOLDERS. 1751. William V.

1747. William IV.

REPUBLIC

1805. Schimmelpenninck, (Grand-Pensionary.)

KINGDOM OF HOLLAND, iparte. 1810. (United to France.) 1806. Louis Bonaparte. KINGDOM OF THE METHERLANDS.

1815. William I. 1840. William II. 1849. William III. 1890. Wilhelmina.

1840. William II.

1890. Wilhelmina.

Hol'lamd, n. A sort of fine linen, first manufactured in Holland. See Linen, Manufactured in Holland. See Linen, Manufactured in Holland. See Linen, Manufactured for Holland, in Illinois, a township of Shelby county.

Hol'land, in Illinois, a township of Shelby county.

Hol'land, in Mussichiaestis, a post-town of Hampden co., about 70 m. W.S.W. of Boston.

Hol'land, in Michigan a flourishing city of Ottawa co., at the mouth of Black river, on the C. & W. M. R.R., 25 m. S.W. of Grand Rapids. Has extensive leather manufactures and other industries, and a fine local trade. Seat of Hope College (Dutch Reformed). Pop (1894) 6,307.

manufactures and other industries, and a distributed by trade. Seat of Hope College (Dutch Reformed). Pop (1884) 6,307.

Hol'land, in New Jorsey, a post-town of Hunterdon co.

Hol'land, in New Jorsey, a post-village and township of Eric co., about 25 m. 8.E. of Buffalo. Pop. of village (1890) 582.

Hol'land, in Ohio, a post-village of Lucas co.

Hol'land, in Vermons, a post-town of Orleans co., about 55 m. N.N.E. of Montpeller. Pop. (1880) 878.

Hol'land, in Wisconsia, a post-township of Brown co.

—A tumnship of La Crosse co.

Hol'Asad, in Wisconsia, a post-township of Brown co.

—A township of La Crosse co.

—A township of Sheboygan co.

Hol'Isad, a name applied to a district of Lincolnshire, in England, embracing an area of 250,000 acres, with a pop. of 75,000.

Hol'Isad, Henry Richard Vassall Fox, (Lord.) an English statesman, B. 1773, was the only son of Stephen, second Lord Holland, elder brother of Charles James Fox (7. r.) During his travels in Italy, he formed an intimacy with the wife of Sir Godfrey Webster, Bart.; in conse-



Fig. 1303.— HOLLAND HOUSE.
(Kensington, London.)

(Kensington, London.)
quence of which the latter brought an action against him,
and obtained \$30,000 damages. Ladv Webster being subsequently divorced. Lord H. married her in 1797, and on
that occasion took, by royal sign-manual, the surname
of Vassall. During his parliamentary career, which
commenced in 1798, he was the uncompromising advocate of the Catholic claims; a zealous promoter of every
endeavor to soften the asperities of the law; and an as-

serter of popular rights in the most extensive sense of the term. When the Whig party came into power in 1830, he became a cabinet minister and Chancellor of the Duchy of Lancaster. D. 1840. During his life-time Holland House, at Kensington, (Fig. 1808,) presided over by Lady H., who died in 1846, was the most renowned temple of wit, social graces, and hospitality in England. Hol'land Landing, is a village of prov. of Ontario, abs 36 m N of Theorets.

Holland Landing, is a village of prov. of Ontario, abt. 35 m. N. of Turonto.

Holland, (New.) See Australia.

Holland, (North and South,) two maritime prova. of the Netherlands, or kingdom of Holland, bounded W. by the German Ocean, S. by Zealand, E. by the Zuyder-Zee and the prov. of Utrecht. From the humdity of both soil and climate, not much land is under tillage, and that little is in S. Holland. The crops principally cultivated are wheat, madder, tobacco, hemp, and flax. The principal agricultural wealth consists in the pastures, which are almost unrivalled in the abundance and luxuriance of the grass which they produce: and on tures, which are almost unrivalled in the abundance and unuriance of the grass which they produce; and on this are fed large numbers of cattle, many of which are exported to Great Britain. Chief Towns in N. Holland, Amsterdam, Haarlem, and Zaardam; in S. Holland, Rotterdam, the Hague, Leyden, and Dort.—See Holland, Rotterdam, the Hague, Leyden, and Dort.—See Holland, Rotterdam, to Holland, or the Netherlands.

Hollandish, a. Pertaining or relating to Holland, or the Netherlands; resembling the people of Holland; Dutch.

Holland Patent, in New York a post-village of

Dutch.

Hol'land Patent, in New York, a post-village of Oneida co., abt. 11 m. N.N.E. of Utica.

Hol'lands, n. sing. Gin made in Holland; scheidam.

Hol'len, n. An old English writing of Holly, q. v.

Hol'lenback, in Penasylvania, a township of Lu-

Hol'lenback, in Pennsylvania, a township of Luzerne co.
Hol'ley, in Florida, a post-office of Santa Rosa co.
Hol'ley, in New York, a post-village of Orleans co., about 22 m. W. of Rochester. Pop. (1890) 1,381.
Hol'ley, in Oregon, a post-office of Linn co.
Hol'liday, in Illinois, a post-office of Linn co.
Hol'liday, sburg, in Pennsylvania, a post-borough, cap. of Blair co., on the Juniata river, near the E. base of the Allegheny Mountains, 8 m. S. of Altoona, on Penna R.R. Pop. (1897) about 3,150.
Hol'lis, in Illinois, a village and township of Peoria co., abt. 11 m. N.W. of Peoria.
Hol'lis, in Naine, a post-township of York co., abt. 60 m. S.W. of Augusta.
Hol'lis, in New Hampshire, a post-township of Hillsborough co., abt. 7 m. S. of Nashus.
Hol'lis C'emtre, in Maine, a post-office of York co.
Hol'listom, in Massachusetts, a post-village and township of Middleser, co., abt. 25 m. W.S.W. of the city of Boston.
Hol'lo, Hol'loa, Hol'la, v. n. [A. S. aklossan, to low or bellow again — a, intensive, and hlowan, to low See Halloo.] To hallov; to hall; to call out or exclain loudly.
"In his car I'll hollo Mortimer!"—Shaks. claim loudly.
"In his ear I'll holle Mortimer!"-

Helle, Helle, interj. and n. A shout; a loud call; a hail; also, a word used in calling, equivalent to ho! hy! hallo! (Infrequent use, when halling ships at sea.) Hellek, n. A sort of sweet wine in use in the 16th

motive, a. [A. S. hol. See Hole.] Containing an empty space; not solid; cavernous; concave; sunken; empty; void; evacuated in the interior; as, a hollow vessel, a hollow sphere.

The Action oak our palace is, our heritage the sea." -Deep; low; resembling sound reverberated from a cavity, or designating such a sound: as, a hollow voice.

-Deep; low; resembling sound reverberated from a cavity, or designating such a sound: as, a hollow voice.

"Twas when the sea was rearing with hollow blasts of wind." Gay.

-Insincere; faithlese: deceltful; not sound; as, a hollow heart, hollow protestations.

Hollow eye, an eye sunk deep in its orbit. — Hollow-ever, an eye sunk deep in its orbit. — Hollow-ever, hollow vessels or utensils; —a term generally given in commerce to cast-iron or tin cooking-vessels, earthenware, &c.

Hollow bastion. (Fortif.) A bastion in which the terre-plein is limited by a line parallel to the scarp, and along which the interior slope of the rampart extends continuously. —Hollow shot. (Gas.) Empty shells, with metal screw-plugs, sometimes used in the navy.

Hollow Recetment. See REWHENT. —Hollow news.

(Arch.) An opening in the middle of a staircase, the steps only being supported at one end by the surrounding wall; the ends next the hollow are unsupported. —

Hollow quoin, a pier of brick or stone made behind the lock-gates of canals.

—A hole: a cavity: a place excavated; a cave or cavern; a den; as, the hollow of the hand.

"The happy hollow of the hand.

—Any depression of surface in a body; a concavity; a groove; a canal; a gut; a channel.

"The hellow generas are exercised. Into the main hollow of the

a canal; a gut; a channel. "The little springs are conveyed . . . into the main hollow of the peduct." — Addison.

r. a. [A. S. holian; O. Ger. holjan, to hollow.] To make hollow; to excavate; to cause a depression of surface, as by digging, cutting, engraving, &c.
"Trees, rudely hollow'd did the waves sustain."

"rese, rucely solder at the wave success." — Dyears.

—adv. So as to render hollow or empty; utterly; completely; thoroughly; — generally following the verb beat; as, we beat the enemy hollow; and often with all; as, that girl's face beats the other all hollow.

Hollow, intrj. Same as Halloo, q. v.

—v. n. To shout; to call; to halloo; to hall.

"He, with his hounds, comes hollowing from the stable "-F"

s. a. To urge on, call, or hall by shouting.

Holloway, a suburban dist. of London, the English metropolis, 4 m. N. of St. Paul's; pop. abt. 27,000.

Hollowayville, in Illinois, a post-office of Bureau co.
in which the whole of the victim was consumed upon feesion; not sound and true. a bearted, disaffected mallenants," - Hudib

" Hall Hollowly, adv. In a hollow manner; faithlessly;

deceitfully

"Try your peniten on, if it be sound, or heller ely put "Try your panience, if it be sound, or helicoty put on."—Shake.

Hollowmeens, n. State of being hollow or concave;
excavation; depression of surface.—Faithlessness insincerity; deceitfulness; treacherousness.

Hollow-teres, n. (Bot.) See Samsucus.

Hollow-trees, n. (Bot.) See Samsucus.

Hollow-trees, n. (Row Fork, a.P. O. of Columbia co.

Holloy, n. [a. 8. holegn, holen; W. celyn. Etymol. uucartain.] (Bot.) See ILEX.

Holloy, in Michigan, a post-village and township of Oakland co., un 2 railroad lines, 7 m. S.E. of Flint. Pop. (1894) 1,231.

Oakland co., on 2 railroad lines, 7 m. S.E. of Fint. Fop. (1894) 1,231.

Holly Creek, in Georgia, a village of Murray co., about 10 m. S. of Spring Place.

Holly Brock, n. [A. S. kolikoc, probably from holig, holy, and hoc; W. kocys, mallow.] (Bot.) The common name of Alkkea rosea and Reifolia, a tall flowering plant of the genus Althea, cultivated in gardens.

Holly Springs, in North Carolina, a post-village of Wales county.

Holly Spring, in Arkansas, a post-village of Dallas

county.

Holly Springs, a city, cap. of Marshall co., on the Ill. Cent., and the K. C., M. & B. R. Rs., 46 m. S. E. of Memphis, Tenn.; an important trade and educational center. Pop. (1897) about 2,500.

Holly wood, a village and parish of Ireland, in the co. of Down, Ulster, about 4 m. N.E. of Belfast. Pop. 1,500.

Holly wood, in Missecola, a post-township of Carver co.

Holms, Holmse (hôm), a. [A. S. Low Ger., Ger. and Dan.; Swed. holms. Etymol. unknown.] A river isle; an islet; an islet, an islet, an islet area of rich land skirting the banks of a river.

"The soft wind blewing over meadowy holms."—Tempson.

an lalet; an ait.—A low, flat area of rich land skirting the banks of a river.

"The soft wind blewing ever meadowy beims."—Teesapson.

Holm, a. [See Holly.] (Bot.) See Querco.

Holm, a. [See Holly.] (Bot.) See Querco.

Holm, a. [See Holly.] (Bot.) See Querco.

Holmedel, in New Jersey, a post-village and township of Monmouth co., about 35 m. N.N.E. of Trenton. Pop. of township (1890) 1,497.

Helmes (home), Oliver Weydell, an eminent American physician and man of letters, son of the Rev. Abiel Holmes, author of the Assals of America, was born at Cambridge, Mass., Ang. 29, 1809. After graduating at Harvard in 1829, he studied law and medicine, receiving (after a two years' residence in Paris) his medical degree in 1836. In 1830-40 Dr. H. was appointed professor of Austomy and Physiology in Dartmouth College, and, in 1847, Parkman professor of the same sciences in the Medical School of Harvard University, which position he continued to fill until his death. Dr. H's contributions to literature were many, varied and distinguished. In 1836 he made his maiden effort in the world of letters with a volume of Poems, which proved an encouraging venture. In 1842 appeared Lectures on Homoropothy and its Kindred Delusions; and in 1848 a Report on Medical Literature. In 1857-8, and the two following years, The Autocrat of the Breakfast Table, The Professor at the Breakfast Table, and Elsie Venner, successively delighted Dr. H's admirers, both in this country and in England, where his works are held in high estimation, the Autocrat alone possessing sufficient humor, and that of the highest order, to make an average literary reputation. These were succeeded in turn by Ourrents and Counter-Currents, in Holmes, in Plorida, a N.W. co., adjoining Alabama; area, about 535 eq. m. Rierrs. Choctawatchie river, and numerous smaller streams. Surface, generally level; soil, moderately fertile. Cap. Westville. Pop. (1890) 6,222.

Hellmes, in Michigan, a township of Mackinac co.

Holmes, in Michigan, a township of Mackinac co. Holmes, in Michigan, a township of Mackinac co. Holmes, in Mississippi, a central co., area, about 750 sq. m. Rivers. Yazoo and Big Black. Surface, level; soil, very fertile. Cap. Lexington. Pop. (1890) 30,790. Holmes, in Ohio, a N.E. central co.; area, about 436 sq. m. Rivers. Walhonding river, Killbuck creek, and numerous smaller streams. Surface, hilly; soil, fertile. Cap. Millersburg. Pop. (1890) 21,139.

—A township of Crawford co. Holmes'burg, in Pennsylvania, a suburban village within the incorporated limits of Philadelphia, about

Holmes'burg, in Pensylvania, a suburban village within the incorporated limits of Philadelphia, about 10 miles N.E. of the City Hall.

Holmes City, in Minuscola, a post-town of Douglas co., about 11 m. S.W. of Alexandria. Pop. (1897) 910.

Holmes Hole (now Vineyard Haven), in Massachusen and the Company of the Company o Holmes Hole (now VINEYARD HAVEN), in Massichiaetta, a post-village of Dukes co., 60 m. S. E. of Boston. It has a fine harbor, at the entrance of which stands H. H. Lighthouse, exhibiting a fixed light, 60 feet above sea-level. Lat. 41° 22' N.; Lon. 70° 30' 40".

Holmes Park, in Missouri, a P. O. of Jackson co.
Holmes Ville, in Georgia, a village, cap. of Appling co., about 115 m. S. E. of Milledgeville.

Holmesville, fin Louisiana, a post-office of Union particle.

Holmesville, in Mississippi, a post-village of Pike co. on the Bogue Chitto river, about 90 m. S. of Jackson.

Holmeswille, in Ohio, a post-village of Holmes co.,
about 85 miles N.E. of Columbus.

-A village of Marion co., about 48 m. N.N.W. of Columbus.



Pig. 1304. — A BURNT-OFFERING.

the altar, in contradistinction to the usual custom of burning only a portion. A similar custom prevailed among the Jews; it is called in the Old Testament a hurnt-offerina.

hurni-offering.

Holocryw'ile, a. [Gr. holos, entire, and kryptein, to hide.] Concealing thoroughly: that cannot be understood or ascortiand; as, a holocryptic cipher.

Holograph, (hol'o-graf), n. [Gr. holos, and graphō, to write.] Any writing, deed, testament, or memorandum, wholly in the handwriting of the person from whom it issues.

wholly in the handwriting of the person from whom it issues.

Holograph'ie, a. Pertaining or relating to holographs; of the character of a holograph.

Holohe'drail, a. [Or. holos, and hedra, base.] (Min.) Ilaving all the similar angles similarly replaced.

Holom'eter, a. [Gr. holos, and metros, measure.] A mathematical instrument for taking measures.

Holopty'chius, w. [Or. holos, entire; pytche, wrinkle—literally, "all-wrinkle."] (Ful.) A genus of sauroid fishes, belonging to the Devonian and Carboniferous periods. Their enamelled scales have corrugated or wrinkled surfaces, and this character suggested the generic name. The Holoptychii, judging from their fragmentary remains, must have been of great size—from 8 to 10, or even 12 feet in length. They were armed with numerous sharp-pointed fish-teeth, and also with larger reptilian teeth of conical form, placed at intervals in either jaw, evidently for the purpose of seizing and cutting up their bulkier prey.

Holoseri'ceous, a. [Gr. holos, whole, and Lat. zericus, silken.] (2001.) Covered with thick-set, short, decumbent hairs; a kind of pubescene resembling satin.

Holothurfia, n. (2001.) A genus or order of marine Radiata, the distinguishing char-

Radiata, the distinguishing characters of which are, that the body is of an elongated form, defended by a coriaceous in tegument: open at both ends, and



Fig. 1305. BATABLE TREPANG, (H. edulis.)

at both ends, and perforated by numerous small canals, through which suckers are protruded. At the anterior extremity is the mouth, furnished with many retractile tentacula, and at the opposite ends is the aperture of the cloaca. The species called Bêche-de-mer, or Trepang, H. edulis, is caught and dried in great quantities by the Malays for the Chinese markets, the inhabitants of the Celestial Experience and the contraction of the contraction of

for the Chinese markets, the inhabitants of the Celestial Empire being excessively fond of it as a principal ingrelient in restorative soups.

Holp, Holp'en, old form of imp. and pp. of Holp. Holp'en, old form of imp. and pp. of Holp. Holp'en, old form of imp. and pp. of Holp. Holp'en, old form of imp. and pp. of Holp. Holp'en, old faitin. Holstein-Godforp, which includes the royal line of Demmark, the collateral branches of Holstein-Godforp, which last is again divided into two branches, — the elder being the reigning line of Russia, while the younger is represented by Gustavus, Prince of Wasa, a field-marshal in the Austrian service, and also by the Oldenburg family.

Hol'stein. a duchy of N. Germany, formerly belonging to Demmark, and now an appearage of the kingdom of Prussia. By decree of Jan. 1, 1891, the duchy of H. has been united to the duchy of Schleswig, to form the province of Schlesvig-Holstein.

Washington cos., enters Tennessee between Hawkins and Powell cos. Thence traversing Granger, Jefferson, and Knox cos., it unites with the Clinch Eiver at Kingston in Roane co., to form the Tennessee River.

Holt, a. [A.S. and L. Ger, a grove or wood.] A wooded hill; a borky eminence. (Used chiefly in poetry.)—A gully, or recess in a river;—also, a hole, cover, or place of refuge. refuge.
"The fax has gone to helt."—C. Eingeley.
——"I \*cowns. D

Holt, the name of numerous small towns, parishes, &

Holt, the name of numerous small towns, parishes, &c., in England.

Holt, in Michigan, a post-village of Ingham co.

Holt, in Missouri, a N.W. co., adjoining Nebraska and Kansas; area, about 462 aq. m. Rivers. Missouri, Nodsway, Tarkeo, and Little Tarkeo rivers. Surface, generally level; soil, fertile. Cap. Oregon. Pop. 15,469.

Holt, in Pensepleasis, a post-village of Ripley co., about 58 miles W. of Choinnati, O. Pop. (1890) 366.

Holtom, in Kansas, a city, cap. of Jackson co., on 3 R. R. lines, 30 miles N. of Topeka. Pop. (1895) 3,020.

Holtowy in North Carolina, a village of Davidson co., about 8 miles N.E. of Salisbury.

Holt's Corner, in Termesses, a post-village of Marshall co.

shall co. Holt's Sumanait, in Missouri, a post-office of Callawsy

Holt's Store, in North Carolina, a village of Ale

co. Holts'ville, in New York, a post-village of Suffolk co. Holly, a. [A.S. halig; D. and Ger. helig; Dan. helig. See Weolz.] Set apart to a sacred use; consecrated; devoted to the service of God; hallowed by divine wor devoted to the service of 'dod; hallowed by divine wor-ship; sanctified; as, the holy Sabbath; holy religion, the holy temple, &c. — Whole, entire, or perfect, in a moral sense; pure in heart, temper, or disposition; free from sin and corrupt affections; pious; devout; godly; divine; immaculate; proceeding from pious principles, or di-rected to religious purposes; pure; irreproachable; as, abox life. a holy life.

" And m

Hely Alli'ance, (The.) (*Hist.*) A celebrated compact, between the emperors of Russia and Austria and the king of Prussia, signed at Paria, Sept. 28, 1815. The act of this alliance is said to have been sent in the act of this alliance is said to have been sent in the Crar's writing to the emperor of Austria and the king of Prussia, and signed by them. It is not supposed that the original terms of the league were other than indefinite; for the maintenance of justice, religion, &c., in the name of the Gospel. But it was subsequently connected with the determination of those monarchs to supnected with the determination of those monarchs to sup-port, in conjunction with England and France, existing governments throughout Europe, by the Declaration of November, 1819. Afterwards the congresses of Troppan, Laybach, and Verona established the character of the alliance, to which the war of France against Spain, in 1823, gave additional illustration. But England may be said to have finally abandoned its principles in 1827, and France in 1830.

Holy Cross, in Wisconsin, a post-office of Oznakee co. Holy Cross, in Wisconsin, a post-office of Oznakee co. Ho'ly-eross, n. (Eccl.) The cross on which Christ suffered. — See Caoss.

sunerca.—See Cases.

Ho'ly-cross Day, n. The 14th of September, on
which a festival is kept to commemorate the axaitation
of the Holy Cross;—called also Hoty-zoop Day.

Ho'ly-cru'el, a. Cruel from religious fanaticism. (a.)

Holy day, n. See Holidat.

Holy Gheet, (The.) n. [A.S. halig, boly, and gast, spirit.] The Holy Spirit; the third person in the Trinity, whom the Saviour promised to send to comfort Trinity, whom the Saviour promised to send to comfort his disciples, (John xiv, xv., and xvi.) The doctrine of the "Filioque," asserting the "Procession" from the Father and the Son, formed one of the chief points of dispute which led to the separation of the Greek and Roman Churches,—the former contending that he proceed from the Father only. The Presbyterian Church maintains the doctrine held by the Roman Catholic Church

montains the doctrine field by the Modala Cathous Church.

Ho'ly bead, an island and seaport of Wales, situated off the W. coast of the isle of Anglesey, with which it is connected by a long causeway which may be crossed at low water, 23 m. N.W. of Bangor. The isle is but a barren rock. H. has a noble breakwater enclosing a harbor of refuge. Pop. (1897) 5,875. See Sekreies.

Holy laland, justing out into the German Ocean from the coast of Northumberland, Eng., but belonging to Durham, is really a peninsula, although isolated at high water. It is about 8 m. from Berwick and may be crossed by carriages every elb-tide.

Holy Office. See Incursition.

Holyoke (hölyök), in Massackwests, a thriving city of Hampdon co., on Coun. river, and the B. & M. and N. Y. N. H. & R. Ra, 8 miles N. of Springfield. Has imnense water power, proceeding from a dam laid entirely across the Connecticut river, and very important manoff. of paper, envelopes, machinery, cottous, and woollets.

of Prussia. By decree of Jan. 1, 1849, the duchy of Hahas been united to the duchy of Schleswig, to form the province of Schleswig-Holstein.

Hol'stein, in Missuri, a post-village of Warren co., about 50 m. W. of St. Louis co.

Hol'ster, a. [A. 8, helletr, from helan, to cover.] A cover or leathern case for a pistol, carried on a horseman's saddle-bow.

Hol'stered, a. Carrying holsters; as, a "holstered steed,"—Byron.

Hol'stered, a. Carrying holsters; as, a "holstered steed,"—Byron.

Hol'stered, a. Tiver which rises in Wythe co. Virginis, and flowing a tortuous S.W. course through Smythe and

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Oliver Wendell Holmes 1809-1894

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ig but the body of the church, which, in its turn, Hem'ager, s. One who holds by homage of some



Fig. 1306. - HOLYBOOD CHAPEL.

Fig. 1306.— HOLTROOD CHAPEL.

1633. The existing palace of Holyrood was designed by Sir William Bruce in 1609. The French royal family took up their residence at Holyrood in 1796.

Holy Sepulchre, (Order of the.) (stp'sl-kr.) A military order, said to have been founded by St. James in 69, to guard the Holy Sepulchre against unbelievers. Other authorities say it was established by Helena, mother of Constantine I., in 326; others, by Godfrey of Boullion, king of Jerusalem, in 1097; and some consider Baldwin I. (1100-118) its founder. It was incorporated with the Hospitaliers in 1484, but re-established by Pope Alexander VI. in 1496. Louis XVIII. of France restored it Aug. 29, 1814.

ander VI. in 1400.
Aug. 29, 1814.

Holy-stone, n. (Naut.) A small stone used by hand, with sand and water, to scour a ship's deck. The larger stone, called the bear, is worked with ropes by two or more men. When dry sand only is used it is called dry halo stoning. (Fr. briquage de sec.)

Dr. Rucchenberger, more men. When dry sand only is used it is called dry holy-stoming, (Fr. brigaugg de sec.) Dr. Ruschenberger, of the United States navy, first recommended the use of shellac for the berth-deck of vessels, as being more healthy than either wet or dry holy-stoning. — a. a. (Naut.) To scrub a vessel's deck, as with a holy-

Holy-thistle, n. (Bot.) The Blessed-thistle, Centau

Holy-Thursday, n. The ASCENSION DAY, q. v.
Holy-Thursday, n. Etc.! Hist.) In the Roman Catholic
Church, water which has been blessed, or conscrated,
have a support of the control of the Church, water which has been blessed, or consecrated, by an appropriate service, and used to sprinkle the worshippers and the things used in the church. The custom of sprinkling churches, &c., with consecrated water is traced by some to the time of the Apostles. Pope Alexander I. (109-119) refers to it as an established custom in his time: and it is mentioned by Tertullian (160-240).

Heolyweek, n. (Ect.) The last week in Lent, called also, in England, Pission-week, in commemoration of the Saviour's suffering and death.

Helywell, helliseoid, a town of England, in Flintshire, N. Wales, 14 m N. of Flint, on the Dec. Many! Cotton, brass goods, galloons, and copper. The stream issuing from the Holywell of St. Winifred boils up as from a caldron, sending out every minute 20 tons of water. It is the most copious spring in England.

He'ly Writ, (-rit,) n. The Sacred Book; the Scriptures

Hernage, (hom'dj.) n. [Fr. hommage, from L. Lat. homagium, or hominium, from homo, man, the usual term by which the vassal or dependant of a prince is designated in the old writers of the middle ages.] The symbolical acknowledgment of dependence due from a vassal to a fendal lord or superior when invested with a flef, or obtaining it by succession. In the earliest periods of the feudal system, fealty and homage appear to be confounded; but in later times the distinction was clearly established, and fealty might sometimes be due where homage was not. H. was either "homagium ligeum," liege H.. by which full and unreserved allegiance was rendered; or "homagium simplex," simple H. a mere acknowledgment of feudal superiority, with a saving or exception of the rights of other feudal lords. The one was personal, and could not be renounced, hence the doctrine of allegiances; the other bound the vassal only so long as he held the flef in respect of which it was due.—Obelsance; reverential regard; respect paid by external action or observance; deference.

—Reverence offered to the Supreme Belng; devout respect; religious affection; devotional regard.

—e.a. To express reverence by external observance; to profess featly or devotion to; to psy honor or regard to. (a.)

was plundered and despoiled by the mob in 1688. Rissio
was murdered in one of the spartments of the palace,
March 9, 1866. Churles I. was crowned here, June 18,
plants, alliance Cuctates. Diac. Distinct sepals and
petals, separate styles, and pendulous ovules.—The
Homaliacee are trees or shrubs, with alternate leaves;
the cally superior and funnel-shaped, with from 5 to
18 division. Patals acoust in number to and alterthe calyx superior and funnel-shaped, with from 5 to 15 divisions. Petals equal in number to, and alternate with the divisions of the calyx. Stamens opposite to the petals and inserted on them, either distinct, or in bundles of three or six. Ovary 1-celled, with parietal placentas, numerous pendulous ovules, and from 3-5 styles. The fruit is a capsule, or berry, with small seeds, having the embryo in the axis of a little fleshy albumen. Some species of the typical genus Homalium are remarkable for their astringent properties. The order includes 8 genera and 30 species.

Homm'burrg, a town of Prussia, and the former capital of the landgraviate of Hesse-Homburg, is situated at the foot of the Taunus Mountains, 9 m. N.W. of Frankforton-the-Maine. It has been much frequented on account of its mineral-waters; but since the suppression, in 1867, of its celebrated gaming-hall, it is now comparatively deserted.

atively deserted.

Hom'burg's Sodative Salt, n. (Chem.) Same a

Home burg a Scotame bank pan him; allied to Gr. Home, n. [A. S.; Ger. heim; Dan him; allied to Gr. kömé, a village, and probably to Lat. domus, Sansk dhâmar, a house.] One's own abode; a dwelling-house; the house in which one resides; abode; residence; dwell-

"Home, sweet home! there 's no place like home." -Pr

One's own country or place of birth; also, that which belongs to an abode or dwelling-place. — Seat, or place of constant residence.

"The land of the free, and the home of the brave

At home. At one's own place of residence; also ap-

At home. At one's own place of residence; also applied to a social reception or entertainment; as, I attended Lady Blessington's at home yesterday.

H. Department. (Pol.) In the executive branch of government, that department which has control of all matters pertaining to the internal and civil polity of the state; department of interior; as, the Secretary of State for the Home Department. (Eng.)

To be at home on any subject. To have a thorough knowledge of, or familiar acquaintance with; as, he is quite at home in the Sanskrit language.

Home, a. Domestic; pertaining to one's dwelling-place or country;—opposed to forcem; as, home manufactures, home products.—Pointed; poignant; close; direct; as, a home-thrust.

(Naut) Used on shipboard of anything that is close in its place. It is applied to the sheets of the sails, the shot and cartridge in a gun, and any article of stowage.—adv. To one's own habitation or country; as, in the expressions go home, carry home, he came home, &c.—Closely to the point; to the proper position or place of application; as, our sins come home to us, to drive a sword-thrust home.

"Accuse him home and home."—Shaks.

To come home. (Naut.) To become parted from its hold of the ground by violence of wind or sea; — said

noid of the ground by violence of wind of sea;—said of an anchor.

To haul home the sheets of a sail. (Naul.) To haul the clues that to the sheave-hole.

Nots.—Home is used to form various self-explaining compound words; as, home-brewed, home-made, home-

sick, &c.

Home, Henny, (Lord Kaines,) a Scotch judge and elegant writer, B. 1696. He wrote Essays upon Several Subjects Concerning British Antiquities (1764), Essays on the Principles of Morality and Natural Religion, Historical Law, The Principles of Epsity, The Elements of Criticism (S vols. 800.), The History of Man. D. 1782.

Home, in Colorado, a post-office of Larimer co.

Home, in Kansas, a post-village of Marshall co., on the St. J. & G. I. R. R.

—A township of Nemala co.

St. J. & G. I. R. R.

—A township of Nemaha co.

Home, in Mekigen, a township of Montcalm co.

—A township of Newaygo co.

Home, in Minnenda, a post-township of Brown co.

Blosme, in Pennsylvania, a post-village of Indiana co.

about 10 m. N. of Indiana.

Home, in Essile Carolisa, a post-office of Union co.

Home, in Tennesce, a post-village of Greene co.

Home Bay, a small lay on the N. of Cumberland
Island, British North America; Lat. 68° 30′ N., Lon.
68° W.

Home'-born, a. Native; natural; indigenous; as, "home-born harm."—Donne.

\*\*Mome'-Born, a. Native; natural; indigenous; as, "home-born harm."—Donne.

—D.mestic; not exotic.

\*\*Home'-bound, a. See Homeward-Bound.

\*Home'-bred, a. Bred at home; native; natural; donestic; indigenous; as, "home-bred evil." (Spenser.)—Rude; unpolished; plain; unsophisticated; uncultivated.

\*\*Home City, in Ohio, a village of Hamilton co, on the Ohio river, about 10 m. below Cincinnati.

\*\*Home'dahl, in Missecota, a P. O. of Faribault co.

\*Home'dahl, in Missecota, a P. O. of Faribault co.

\*Home'dwelling, a. Residing at home.

\*\*Home'land, in Florida, a post-office and small village of Polic co, on Florida Southern R. R.

\*\*Home'land, in Virginia, a post-office of Culpeper co.

\*Home'sherm, s. That portion of a nobleman's or gentleman's estate whereon the farm-buildings belonging to his hall or mansion are situated. (English.)

Home'-felt, a. Felt in one's own mind; inward; secretly appreciated.

"happy joys of home-felt quiet piense."—Paps.

Home'-keeping, a. Clinging to home; indisposed

Home-keepang, a. Jangang to roan or travel.
"Home-keeping yeath have ever homely wits." — Shake.
Home-lees, a. Without a home; destitute of shelter.
Home-leesness, s. State of being homeless and

Home teamness, wagrant, adv. Plainly; rudely; inelegantly.

Home lineas, a. Quality of being homely; domesticity.—Plainness of features or personal appearance; want of beauty or attractive looks.—Plainness or buntuess of manners; rudeness; coarseness; brusqueris, "Homer has opened a great field of railiery... by the homeliness of some of his sentiments."—Addison.

Home-lot, n. An inclosure on or near which the mansion-house stands. (U. S.)— Webster. (This term is equivalent to that of home-farm, as used in England.) Home-ly, a. Belonging to or partaking of the characteristics of home; domestic; familiar.

"Their homely joys, and destiny obscurs."— Grey.

"Their homely joys, and destiny obsours." — Grey.

—Plain; unpretentious; rude or coarse in appearance; unpolished; homespun; as, homely fare, a homely strain.

—Unattractive or plain in features; not comely or handsome; as, a homely person.

"There is none so homely but loves a looking-glass." — South.

Homelyun, Homee, n. [Soot hommelin.] (2001)

The Sand-ray, Raia miraktus, a fish found on the British coasts.

The Sand-ray, Raia miraletus, a fish found on the British coasts.

Home-made, a. Made or manufactured at home, or in one's own country; not brought from foreign parts; as, home made bread, home-made wines.

Home-p'athy, s. See Hoxco-party.

Ho'meer, On, or Chorr, s. [Heb. khômer, a dry measure.] The largest dry measure of the liebrews, equal to 10 baths or ephahs, and containing abt. So four bushels.

Ho'meer. This great name, or shadow of a great name, is retained here, not for the purpose of once more repeating the details of the traditional story attached to it lines the days of Herodotus, but partly from reverence for its ancient glory and unwillingness to see it wholly disappear from the roll of famous names; partly on account of the place which it must for a long time hold in literature and in the common speech of men; and chiefly for the purpose of stating that there is simply no evidence at all for the common tale. That H. was the greatest poet of Greece and of the ancient world; that he lived about the 8th century B. c., and was an Asiatic Greek; that seven cities disputed for the honor of being his birthplace; that is was blind and poor, and went about reciting his versee for bread; that the Riad and the Odyssey were his works: such are the main items of the aimost universal and unquestioned belief respecting H. in the ancient world: a belief which modern criticism has not only shaken, but shown to be untenable. To sum up all doubts and denial on the matter in one word—no one knows even so much as the fact of the existence of a great poet named H. The modern criticism has not only shazed, but show to be untenable. To sum up all doubts and denial on the matter in one word—no one knows even so much as the fact of the existence of a great poet named H. The Iliad and the Odyssey are facts beyond doubt; their high antiquity, their immense importance as sources not only of later poetic inspiration, but even of the popular religious faith of the Greeks, and their incalculable infuence on all subsequent literature, are also unquestionable. But of the authorship of these wonderful poems we can only confees, like Socrates of vaster problems, that "we nothing know except that we know nothing." It is, however, established by recent criticism that the Ified is not one poem but that this work, in common with the Odysey, is made up of a series of antecedent lays of heruce and mythological character, bearing on one subject, and skillfully welded together, perhaps in great measure re-written, by the unknown person who gave these works to the world. The origin of these remarkable poems has been critically studied by many learned authors within the recent period, whose conclusions generally agree with the statements by many learned authors within the recent period, whose conclusions generally agree with the statements given above. Among the numerous English or American translations of H. we must name the earliest and very spirited version by Chapman, afterward republished; those by Pope in heroic verse, and by Cowjer in blank verse; and, more recently, the Iliad in blank verse, by the Earl of Derby, and in the same metre by Wright; the Odgessy in blank verse, by Musgrave; the excellent translation of the Iliad in blank verse by W. C. Bryant, published in 1870 and which is still generally excellent translation of the Ithis in biasis verse by W. C. Bryant, published in 1870 and which is still generally considered the best. One of the best modern translations is the German, in hexameter, by Voss. See HOMERIC PORMS, LLIAD, ODYSSEY.

\*\*HO'smer, in Georgia, a post-village, cap. of Banks co., about 30 m. N. of Athens.

about 30 m. N. of Atnens.

Homer, in Illiads, a post-town of Champaign co., 93 m. E. by N. of Springfield. Pop. (1897) about 1,100.

—A township of Will co.

Homer, in Indiana, a village of Jackson co., about 56 m. S. of Indianapolis.

—A post-village of Rush co.

Homer, in Iowa, a township of Benton co.

—A township of Buchanan co.

A post-village of Hamilton co., about 20 m. S. E. of Fort Dodge.

Dodge.

Homer, in Louisiana, a city, cap, of Claiborne parish, about 200 m. N. W. of Baton Rouge. Pop. (1887) 1,132.

Homer, in Michigan, a post village and township of Calhoun co., about 13 miles S. E. of Marshall. Pop. of village (1894) 1,157.

Homer, in Missespit, a post-township of Winona co., on the Mississipp river, about 5 m. below Winona.

Homer, in New York, a post-town of Cortland co., on D., L. & W. R. R., 34 m. S. of Syracuse; has various manufactures. Pop. (1897) about 4,560.

**Homer**, in Obio, a post-village of Licking co., abt. 46 m. N.E. of Columbus.

-A township of Medina co. -A village and township of Morgan co.

Homer, in Pennsylvania, a post-township of Potter

Comor, in Texas, a post-village of Angelina co., abt. 220 m. E.N.E. of Austin.

220 m. E.N.E. of Austin.

Homser, in Wisconsin, a post-office of Grant co.

Homser'le, a. [Gr. homericos; Lat. Homericus.] Relating or pertaining to Homer, the "father of poetry," or
to his poetry; resembling, or partaking of the spirit of
the verse of Homer.

H. Poess. (Lil.) A title general given to the lliad
and Odyssey, and the hymns which
we been preserved
to use in honor of Apollo, Dionysius, itermes, and other
Hellenic detties and heroes. But the poems which have
come down to us are not a small partition of the treeto use in honor of Apollo, Dionysuis, itermes, and other Hellenic delities and heroes. But the poems which have come down to us are only a small portion of the treasures which were possessed by the Greeks of the age of Pisistratus or Pericles. (See Eric Croll.) The "Hisd" relates the events of a few months in the Trojan war, which was caused by the theft of Helen by Paris, once called Alexandros; the "Odyssey" gives the narrative of the return of Odysseys or Ulysses from Hion to Ithaca. An examination of these two poems goes to show certain discrepancies in their material and arrangement and some lack of consecutiveness, which go to indicate that they are not, at least in their original form the work of a single hand. Hence a presumption arises that these poems were the result of a very gradual growth, and that in them are combined several lays or poems written by several writers. See Eric.

Homer'dder, n. pl. A race of rhapsodists or singers, with regard to whom there are three theories:—1. That they were the descendants of Homer. 2. That they were poets of an early epoch, but of a regular school, whose

they were the descendants of Homer. 2. That they were poets of an early epoch, but of a regular school, whose works, collected and arranged in a complete form, were attributed to Homer. 3. That they were a race of wandering minatels, who, coming after Homer, imitated him, added to, and interpolated his works.

Home-Eule, (Irish pol.) that party advocating a separate Irish parliament for local legislation.

Home-steks, a. Pining for home; depressed in spirits at being separated from home; nostalgic.

Home-steksness, n. [Fr. maladic dis pays.] A morbid longing to return home when separated from it; uncontrollable grief for the loss of home; nostalgia; maladic du pays.—See Nostalgia.

du pays. — See Nostalgia.

Home'-speaking, n. Direct and forcible application

Mome'spum, a. Spun or wrought at home; of domestic make or manulacture; homely; plain; as, homespun cloth.—Plain or inelegant in style or manner; ude : countrified.

rude; countrified.
"Our homespan authors must forsake the field."—Addison.

Home'stall, Home'stead, n. A mansion, house, or home in the country.—Original seat or station of a family; an ancestral home.—A farm with the land immediately adjoining. A tract of land taken up from the Gov't under the Homestoad laws usually 160 acres.

E.eme'stoad, in Mich., a p. e. of Benzie co.

Home'ward, Home'wards, adv. Toward home one's habitation; in the direction of one's own country.

Home'ward-bound, a. Boundor heading for home; as, a homecord-bound ship.

Home'wards, adv. Same as Honzward.

Home'wards, adv. Same as Honzward.

Home'wards, in Pransylennia, a post-village of Beaver co., abt. 35 m. N.W. of Pittaburg.

Hom'ichilm, n. (Min.) A bronze colored sulphuret of iron and copper, from Plauen in Saxony. Comp. Sulphur 30-21, iron 25-81, copper 43-76. Sp. gr. 4-472.

Homicidal, a. Belating or belonging to homicide; murderous; bloody. authors must forsake the field." — Addi

Homiel'dal, a. Relating or belonging to homicide; murderous; bloody: from Lat. homicidism — homo, man, and cado, to kill.] (Law.) The killing of any human being. H. is of three kinds, — justifable, excusable, and felonious. The first has no stain of guilt; the second very little; but the third is the highest crime that man is capable of committing against a fellow-creature. Justifiable homicide is of various kinds, including such the suite from naryaidable presents or that man is capable of committing against a fellow-creature. Justifiable homicide is of various kinds, including such as arise from unavoidable necessity or accident, without any imputation of blame or negligence or the person killing. H. in the course of justice, in the execution of any criminal or civil process, is of this kind. The necessity must, however, be real and apparent in all cases of this sort. H. is justifiable in the prevention of any atrocious crime, as an attempt to murder, or to break into a house during the night. Justifiable H. does not apply to crimes which are unaccompanied by violence, such as the picking of pockets. Ac. The general principle of the law is, that when a crime in itself capital is endeavored to be committed by force, it is lawful to repel that force by the death of the party attempting it. Excusable H. is committed either by misadventure or in self-defence. H. by misadventure is where a man doing a lawful act, without any intention of hurt, and using proper precaution to prevent danger, unfortunately kills another; as when a man is at work with a hatchet, the head flies off and kills a bystander; for the act is lawful, and the effect is merely accidental. As prize-fighting and sword-playing are unlawful, if either of the parties engaged be killed, such killing is felony or manslaughter. H in self-defence, from a sudden affray or quarrel, is rather excusable than justifiable in the English law. Felonious H is an act of a very different character from the two former, being the killing of a human creature, of any age or sex, without justification or excuse. It is divided into three classes,—murder, manslaughter, and self-destruction.—One who kills a man; a man-layor.

Homilet'ie, Homilet'leal, a. [Gr. homiletikos.]

Having the nature of, or pertaining to, familiar intercourse; affable; social; conversible; companionable.

Pertaining to homiletics.

Homileties, n. sing. The science which treats of the nature and preparation of homilies or sermons.

Homilist, n. One who delivers homilies, or who preaches to a congregation.

Homily, n. [Fr. homilie; Gr. homilia, from homiloshome and its a ground company.] A sermon

Hom'ily, a. [Fr. homelie; Gr. homelia, from homelo-homos, common, and ite, a crowd, company.] A sermon addressed to a congregation of people; a plain, familiar discourse on some religious topic.

Book of Homelies. (Eccl. Hist.) In the English Church, the name given to a collection of sermons, setting forth the principles of Protestantism, of which the first part was published by Archbishop Cranmer in the reign of Edward VI., and the second by order of Convocation in that of Elizabeth.

Hom'iny, a. [Of Indian derivation.] Coarse Indian corn meal.

Hom'mock, n. (Sometimes written hummock.) [Ety-mol. unknown.] A conical mound or hillock, often mol. unknown.] A crowned with trees.

crowned with trees.

Homo-. [Gr. homos, one and the same.] A Greek prefix used in composition to denote resemblance, and thus opposed to hetero, which indicates difference.

Homocen'trie, a. [Gr. homokentros.] Having one and the same centre.

Homoceneal, (hō-mō-zēr'kāl.) a. [Gr. homos, and kerkot, tail.] (Zōi.) A term applied to those fishes which have tails with rays regularly diverging from the backbone, as in the herring and trout; — in opposition to heteroceral.

Homochromous, (ho-mok'ro-m

Homochromous, (homokromus,) a. [Gr., one of color.] (Bot.) A term denoting that all the florets in the same flower-head are of one color.

Homochit'to, in Mississippi, a small river rising in Copiah co., and entering the Mississippi River in Adams county.

county.

A post-office of Franklin co.

county.

A post-office of Franklin co.

Hemocome'ria, n. [6r., similarity of parts.] (Philos.) The name given to the physical theory of Anaxagoras of Clazomene, who flourished in the 5th cent.

B. O. According to this hypothesis, every material substance is made up of infinitely small parts similar to itself. This theory bears some resemblance to that of the monads of Leibnits in modern times.

Homocomer'ic, Homocomer'ical, a. Pertaining to, or exhibiting sameness of parts; having reference to the homogeneity of first principles.

Hemocomer'phisms, n. [Gr. homoios, alike, and morphé, form.] (Anat.) Same as Honology.

Hemocomor'phous, a. Same as Honology.

Hemocomor'phous, a. Same as Honology.

Hemocomor'phous, a. Same as Honology.

Homeopath'ically, Homeopath'ically, adv. After the manner, or in the method, of homo-

adv. After the manner, or in the method, of homeopathy.

Homeopyathist, s. One who practises homeopathy; a believer in the homeopathic system.

Homeopyathy, s. [Gr. omiopatheia, likeness of conditions, from omios, like, or similar, and pathos, affection.] (Med.) A system of medical practice, of which the fundamental principle is the treatment of diseases by the administration of such remedies, as, when given to the healthy subject, will produce symptoms similar to those from which the patient is suffering. The relation between drugs and the diseases which they are capable of curing is expressed by the formula similiar similibus curantur, or "like cures like." The Homeopathic school of medicine owes its existence to the genius of the eminent physician and chemist Samuel Harkemann, q. v. In the year 1790, while engaged in

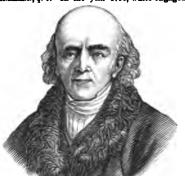


Fig. 1307 . - HAHNEMANN.

translating Cullen's "Materia Medica," to his great sur-prise, he discovered that Peruvian bark was capable of prise, he discovered that Peruvian bark was capable of exciting upon a healthy subject symptoms similar to those of fever and ague — a disease for the cure of which it had long been deemed a specific. With the true spirit of inductive philosophy, he set himself resolutely at work; — examining the records of ancient medical writers, to ascertain whether other examples might not be found of remedies which had cured symptoms similar to those which they were capable of producing, he was induced to believe that the case of Peruvian bark

was not a peculiar one, and that the archives of medical history furnished the apparently singular disclosure of many cures accomplished by drugs capable of producing symptoms similar to those which had been cured, and thus strictly in accordance with the homeopathic principle. Hahnemann soon announced his discovery to the world, and formulated the doctrine of H. International statements of the control of th covery to the world, and formulated the doctrine of H. It is generally and erroneously believed that the chief, it not the only peculiarity of the Homeopathic system consists in the administration of infinitesimal doses of medicine. It may be seen from the alove definition of H, that the question of the magnitude of the dose has no connection with the principle itself, but is determined, as in all the modes of practice, by the circumstances of the individual case; every physician prescribing such doses as may be necessary to produce the desired effect, but always in strict accordance with the Homeopathic maxim. It must be said, however, that in homeopathic practice much smaller doses are generally used than in the allopathic or ordinary mode of treatment, on this fundamental principle of H, that the remedier are to act specifically and directly on the discussed part which is more sensitive than in health, and consequent ly will not tolerate as large doses as might be prescribed than in the allopathic or ordinary mode of treatment, on this fundamental principle of H., that the remedier are to act specifically and directly on the diseased part which is more sensitive than in health, and consequent ly will not tolerate as large duese as might be prescribed under other and more indirect modes of treatment. The chief merit of Hahnemann, according to the best authorities of the new system, does not consist in the discorrery of the efficacy of small doses, but in the demonstration and introduction of the great doctrine of curing maladies by impressing diseased tissues with medicines which operate specifically upon these tissues themselves, rather than on distant parts. The homocopathists do not, as has been frequently asserted, deem it unnercessary for physicians to possess a knowledge of anatomy, physiology, pathology, chemistry, &c, but, on the contrary, strenuously insist that the student shall be first educated in all these, and other requirements of medicine, and that he study of homocopathy is to be superadded, by which alone the student can be enabled to become a competent judge of the merits of both systems. The homocopathic school is divided into two branches, — The Pure Hahnemannsian Homocopathists, and The Rational and Liberal Homocopathists. The former follow all the teachings of Hahnemann implicitly, and as a general rule confine themselves to the high dilutions or infinitesimal doses of medicine, and repudiate any deviation from this mode of practice, as sauti-Hahnemannian and pernicious. The latter, while they revere Hahnemann as the Father of scientific medicine, and adher tenaciously to the therapeutic maxim of similar, which he promulgated, yet reject many of his subsidiary doctrines as untenable, and adopt only those of his teachings which they consider as in accordance with their own sound experience. They claim that homocopathy is broad, catholic, and comprehensive, and that homocopathy is broad, catholic, and comprehensive, and that homocopathy is broad, catholic, and c ing a tissue or organ when diseased. They moreover, consider the belief of the maxim similia similibus curestur as the only exsential principle of homocopathy—and as the only particular in which this school differs from other schools of medicine.—Progress of Homocopathy. At the period of the promulgation of H. no science of therapeutics existed, and the heroic treatment—as it was called—of even trifling allments, caused greater mortality than disease itself. The doctrines of Hahnemann produced a revolution, many learned physicians adopted his methods, and before his death numerous hospitals and dispensaries of homocopathic practice were established in the principal cities of Europe, many of them under government control. The new system spread to Great Britain and the U. S., and though about 1845 a systematic effort to stamp it out was begun by the adherents of the "old achool," and with much success, it has revived again, the U. S. having at the present time not less than 15,000 homocopathic physicians. The revival in Europe has been slower. The first homocopathic medical college in this country was established in Philadelphia. It has been followed by others in New York, Boston, and other cities, while a large number of hospitals and dispensaries have been founded, the Ophthalmic Hospital in New York treating some 15,000 patients a year, and taking position as one of the largest of its kind in the U. S. Doubtless the influence of H. has had much to do with the disappearance of the "heroic treatment," and the employment of milder remedies and more moderate doses than of old This system has become lighly popular in the treatment of children and adults of weak constitution, and it has system has become highly popular in the treatment of children and adults of weak constitution, and it has been confidently asserted that numerous "old school"

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in animals, and symmetrical arrangement of the gaugions.

Homoge'meal, Homoge'neous, a. [Fr. homogine; Gr. homogenis—homos, same, like, and genos,
kind. See Gayus,] Of the same kind, genus, or nature;
consisting of like elements, or similar parts.
(Anat.) Any substance or part made up of similar
parts, as the lungs, composed of an immense collection
of air-cells, and their surrounding tissue; the opposite
of heteroments.

of hetero

of air-cells, and their surrounding tissue; the opposite of Acterogeneous.

Hemege'mealness, Homegene'ity, Hemege'meausness, a. State or quality of being homegeneous; sameness of kind or nature.

Hemegraphic, (hōmō-graf-it), a. Using a single and distinct character to define each sound;—said of a particular method of spelling words.

Hemegraphy. E. [Gr. homos, and graphē, writing.] The art of reproducing copies of a printed work, engraving, or lithograph.

Hemegraphy. E. [Gr. homosoptotos, from homotos, like, and ptosis, a falling.] (Rhet.) A figure in which the several parts of a sentence end with the same case or with a tense of like sound.

Hemegraphy. E. [Gr. homosos, like, and ousis, substance], and Homegin's siam, a. [Gr. homos, the same, and ousis, substance], is the modify siam, a. [Gr. homos, the same, and ousis, substance], is the ouncil of Niccea, A. D. 325. The Arian war-cry at the council of Niccea, A. D. 325. The Arian war-cry at the council of Seleucia, Sept. 27, 359, was Homoiousian.

359, was Homolousian.

Homologate, v.a. [Gr. homologed.] (Law.) To approve; to allow; as, the motion is homologated.

Homologation, n. [Gr. homologos, agreeing with.]
(Law.) Confirmation by a court of justice; a judgment which the execution of some act or decree rules.

Homological, a. Relating or pertaining to homology.

Homologically, adv. In an homological manner.

Homologize, v.a. To determine the structural relations of. lations of.

Iomol'ogous, a. [Fr. homologue; Gr. homos, similar, and logos, ratio.] Speaking or agreeing together; assent

(Geom.) Applied to quantities or magnitudes which correspond, or are like to one another.

(Algebra.) H. quantities are those which can be add-

(Algebra.) H. quantities are those which can be added to or subtracted from one another.

(Chem.) H. series, are series of chemical compounds, the formules of which differ from each other by one equivalent of carbon and two of hydrogen (CH<sub>2</sub>), or a multiple of these numbers. Ethers, alcohols, and fatty acids are examples of H. S.

(Zoid.) Corresponding in structure and position.

Homolographile, a. [Gr. homos, and graphein, to write.] Maintaining equilibrium or justness of parts; preserving relative proportion.

write.] maintaining equilibrium or justices of parts; preserving relative proportion.

Homo'ologue, n. That which is homologous to something else. — See HomoLog.

Homol'ogy, n. [Gr. homologia, agreement.] State or quality of being homologous or correspondent; relation; admity.

simily.

(Anal.) A term used to indicate structural correspondence, while the term analogy is employed to indicate functional resemblance.

Thus, by homologue is implied "the same organ in different animals, under every variety of form and function;" while by analogue we understand "a part or organ in one animal which has the same functions as another part or organ in a different animal." For example, the wings of an insect are the analogues of those of a bat or bird, but not the homologues; while the latter are homologues with the arms of man, fore-legs of quadrupeds, and the pectoral fins of fabee. fins of fishes.

fins of fishes.

Homoom aloum, a. [Gr. homos, and alexthai, to rise.]
(Bot.) Applied to leaves, &c., originating all round an organ, but directed or curved round to one side of it.

Homoom orphous, (hom'mo-morfus,) a. [Gr. homos, and morpht, form.] (Bot.) A term applied to bodies of the same order when uniform, or shaped alike.

Homoom, Hom'onyme, A word which agrees with another in sound, but differs in signification, as the substantive bear and the verb bear.

Homoomymooms, a. [Fr. homonime; Gr. homonymos—homos, and onoma, name.] Having the same name or sound, but differing in signification; equivocal; ambiguous.

biguous.

Homon'ymously, adv. In an equivocal manner.

Homon'ymy, n. [Fr. homonimie; Gr. homonymia.]

Sameness or identity between words which differ only in

Sameness or identity between words which differ only in signification; ambiguity.

Homodwiniam, n. and a. See Homotouvian.

Hemodphomoe, n. A character or symbolic expression, which assimilates with another in sound or letter.

Homodphomous, (ho-mof/o-nus.) a. [Gr. homophonos, of the same tone.] Expressing similarity of sound or letter with another; as, an homophonosis inscription.

(Mas.) Having the same pitch; unisonal. Two or more sounds are said to be homophonous when they are of exactly the same pitch.

more sounds are said to be homophonous when they a of exactly the same pitch.

Hemoph'ony, n. (Mus.) Sameness of sound.—Sin ing or chanting in unison; — correlative to antiphony Hemop'ter, Hemop'teran, n. [Gr. homes, and pterun, wing.] (Zoil.) One of the Homoptera, q. v.

physicians, by the great reduction of doses, habitually practice homosopathy in fact, though nominally adhering to allopathy. The sale of homosopathic specific remedies has also developed into an immense business. [Zoöt.] A group of insects, sub-order Homiptera, distinguished by their possessing two pairs of wings, usually composed of a firm membrane, and not covered by scales; and by having the anterior pair of the same substance throughout, and roof-like when folded. The mouth is adapted for suction, the tongue being channelled, and surrounded by innest-like organs, with which the tissues of plants are pierced. Among the L are the Cicadina. [Zoöt.] Pertaining to the ganglions. [Fr. homogemes.] Homogemes. [Fr. homogemes.] Homogemes.] Homogemes. [Fr. homogemes.] From Gr. homogemes.]

Homopterous, a. (2004.) Pertaining or relating to the homoptera.

Homot'onous, a. (From Gr. homos, and tonos, tone.) Equable; proceeding in the same tenor from beginning to end; having the same sound.

Homot'ropal. Homot'ropous, a. (Gr. homos, and trypa, direction) Having a turn concurring with the direction of another thing.

(Bot.) A term used in describing the direction of birds, to denote any one having the same direction as the body to which it belongs, but not being straight.

Homo'type, n. (Gr. homos, and typos, typo.) (Anat.)

The correlative in one segment with any given part in another segment, or in the same segment, of one and the same animal. Thus the frontal bone is the homotype of the superoccipital bone; the humerus is the homotype of the femur; the parts on the right side are homotypes of those which are repeated on the left. It is the object of serial homology to determine homotypal parts.

Homs, Hums, or Homs. (Anc. Emesa, or Emissa.) A fortified city of Syria, 90 m. N.W. of Damaccus, about 11 m. from the River Casy, or Orontes; Lat. 24° 11' N., Lon. 37° 34' E. Pop about 20,000.

Homun'culus, n. [Lat., dim. of homo, man.] A dwarf; a manikin; a little man.

dwarf; a manisin; a little man.

Hon. Abbreviation of Honorable, used as a prefix to proper names.

Homan, a central prov. of China; area, 65,104 sq. m.; pop. 23,037,171. Its cap., Kaifung-fu, is situated on the Yellow River, from which it has often suffered, the riverback before here abouted about the chinace to extract the standard and the second s bed being here elevated above the adjacent country has been overflowed 19 times. In the reign of I (2852 B. C.) it was the capital of China. In the reign of Fuhi

Honawar', a seaport on the W. coast of Hindostan pres. of Madras, Lat. 14° 17' N., Lon. 74° 30' E.; 340 m

pres. of Madras, Lat. 14° 17' N., Lon. 74° 30' E.; 340 m. 8.K. of Bombay.

\*\*Bom'cut, in California, a post-village of Butte co., on the So. Pacific railroad.

\*\*Hon'cut C'reck, in California, enters the Feather river between Butte and Yula cos.

\*\*Hon'das.\*\* [Sp. onda.] A town of the Republic of Colombia, on the Magdalena river, about 55 m. N. W. of Bogots. \*\*Pop. (1897) 5,156.—The lay of the same name lies on the N. coast, Lat. 12° 20' N., Lon. 71° 50' W. \*\*Hon'das, a bay on the N. coast of Cuba, about 60 m. W. of Havana.

Hon'do Creek, in Texas, outers the Rio Frio in Frio

Hon'do, (Rio,) or Rio Grande, a river of Yucatan and British Honduras, cuters the Caribbean Sea about 25 m

British Honduras, enters the Caribbean Sea about 25 m. S.E. of Bacalar.

Honduras, a republic of Central America, bounded N. and E. by the Bay of Honduras and the Caribbean Sea, S. by the republic of Nicaragua, S.W. by the republic of San Salvador, and N.W. by Guatemala. The republic lies wholly between Lat. 13° 10′ and 15° N., and Lon. 83° 11′ and 89° 41′ W. Area, 58,168 sq. m. H. is divided into 13 departments, generally named after their capitals such as Teuricipals (can of the republic) Computation and the sequence of the republic of the computation and the sequence of the republic of the sequence of the sequen 83° 11' and 89° 47' W. Area, 38,168 sq. m. H. is divided into 13 departments, generally named after their capitals, such as Tegucigalpa (cap. of the republic), Comayagua (former capital), Nacaome, Santa Barbara, Gracias, Yoro, Juticalpa, etc. The ports on the Atlantic side are Tuxillo, Omos, and Port Cortes, formerly Caballos. On the Pacific, in the Bay of Fonseca, the republic has two ports, San Lorenzo, and the free port of Amapala, on the island of Tigre, which has a fine anchorage and salurious climate. H. has a coast-line of 400 miles on the Bay of Honduras and the Caribbean Sea, and 60 m. on the Bay of Fonseca, on the Pacific side. The rivers are numerous, and some of them of large size. The Chamelicon, Ulus, Aguan or Roman, Tinto, Patuca, and Segovia, falling into the Atlantic, and the Choluteca, Nacaome, and Goascoran, flowing into the Bay of Fonseca, are the principal. In physical character, climate, production and political institutions, H. resembles Guayamata, q.v. The foreign trade is carried on chiefly with the U. States, Great Britain, and Spain. The population is mostly Indian. The eastern portion of the State is almost exclusively occupied by independent tribes, known under the general names of Aicaques and Payas. Portions of these have accepted the Roman Catholic faith, and live in good understanding with their white neighbors. The coast around Carataska lagoon, and near Cape Gracias, was for many years occupied by a mixed race of negroes and Indians, best known as Sambos or Sambo Mosquitos, corresponding generally with the people of the Mosquitos corresponding generally with the people of the Mosquitos, corresponding generally with the people of the Carlies, descendants of the Caules of San Vincent, one of the Carlies, descendants of the Caules of San Vincent, one of the Carlies, descendants of the Caules of San Vincent, one of the Ecaward Islands, who were deported by the of the Cariba descendants of the Cauls of San Viucent, one of the Leeward Islands, who were deported by the English, to the number of 5,000, and landed on the island of Ruatan, in 1796. They are now estimated to number about 30,000. They are industrious, active, and provident; a portion of them have a mixture of negro lood, and are hence called the black Cariba. They still retain their native language, which is the true Carib of the islands, although most, if not all of them, speak Spanish, as well as a little English. They profess the Catholic religion, but they are polygamists, and retain many of their native rites and superstitions.— Hist. H., discovered by Columbus in 1502, was conquered by one

of Cortes' associates in 1523. It joined the republic of Central American States in 1821, and became an independent State in 1829. The present constitution was voted in 1865. The president, Gen. Santos-Guardiola, was assassinated at Comayagua by Pablo Agurcia, commander of hisbody-guard, Jan. 11, 1862. Hunitedagainst Guatemala with St. Salvador, under Pres. Currera, Mars. 3, 1863. Owing to military reverses, the president Montes was compelled to take flight, July 26, when José Maria Medina was provisionally elected in his stead. The election was confirmed in Feb., 1864. The president Medina was re-elected in 1869 for a term of 4 years. He was subsequently shot: his successor, M. A. Soto, was elected in 1876. Polycarpo Bonilla was elected president in 1894. In 1897 H. became a member of the Greater Republic of Central America. Pop. (1897) about 450,000.

Hendu'ras, Eay off, a large and commodious bay of Central America, bet. Cape Honduras, Lat. 15° N., and Cape Catoche, in 21° N., at the extreme E. of Yucatan.

Home, a. [Swed. and Goth. kes.; Icel. kefa; probably allied to Gr. akósa, a whetstone.] A whetstone; a stone of a fine grit, used for sharpening tools and other instruments. They are usually talcose slate of very close texture, in which the particles of silica are very finely divided and evenly distributed. Twrkey oil-stones are said to be the best of all the hones; after these are the Arkonsos oil-stones from this country.

—e. a. To strap on a hone; to sharpen; as, to hone a razor.

Hone of the Greater of the Greater of the Hones of the order of the post-village of

Arkonsos oil-some from this country.

—r. a. To strap on a hone; to sharpen; as, to home a razor.

Honecye (ho-ne-oy'), in New York, a post-village of Ontario co., about 25 m. S. of Rochester.

Honecye Fails, in New York, a post-village of Monroe co., on Leh. Val. and 2 other B. B. lines. Pop. (2007).

—hamit 1050. roe co., on 10... (1897) about 1,260.

(1897) about 1,260.

Honeoye' Lake, in New York, a small lake in the S. W. part of Ontario co. It covers an area of abt. 5 sq. m.

Honeo'dale, in Penna, a post-borrough, cap. of Wayne co., 32 m. N. E. of Scranton. Pop. (1897) about 2,900.

Hon'est, a. [Fr. honnelle, from Lat. honsetus—honor, honos, honor. See Honos.] Full of honor; honorable; reputable; decont; appropriate; suitable.—Creditable; upright; just; fair in dealing with others; disposed to act with fairness; free from fraud, duplicity, or trickiness.

"A prince can make a belted knight..."

"A prince can make a belted knight...
But an Accest man's aboon his might." — Burns.

Chaste; virtuous; faithful; pure.

Wives may be merry, and yet honest too." - Shake

Equitable; fair; just; trustworthy; as, an honest bargain. — Fair; good; unimpeachable.
"An honest tale speeds best, being plainly told."

Candid: unreserved: frank: sincere: invested with truth. "An honest confession is good for the soul." - Eng. Proverbs.

"An homest confusion is good for the soul."— Eng. Proverba.

Prompted by pure, just, or honorable principles; actuated by sincere, equitable, or impartial views; as, an h-mest endeavor, an homest motive.

Hom'estly, dot. In an homest manner; truthfully; uprightly; fairly; justly; equitably; truly; frankly; as, to act or live homestly.

Hom'estly, n. [Pr. homelettle; Lat. homestas, from homestus—honor, honor, State or quality of being honest; integrity; uprightness of conduct; fairness of disposition.

(Bot.) See LENARIA.

Home'-wort. n. (Bot.) See Capptotenia.

integrity; uprightness of conduct; fairness of disposition. (Bot.) See LUNARIA.

Home'-wert, a. (Bot.) See Capprotenia.

Homey, (hôn'c.) a. [A. S. hunig; D. and Ger. honig;
Heb. ghoneg, delight.] A fluid, or semi-fluid substance, very similar in its properties to sugar. It is found in large quantities in a number of vegetables, and is collected by different kinds of bees from the nectiferons glands in the cup or chalice of flowers. H. in the ordinary sense of the word, however, cannot be called a purely vegetable production, for, after it is collected by the proloscis of the insect, it is transmitted to the sucking-stomach, or honey-lag, where it is elaborated, and alterwards discorged, to be deposited in the cell of the honeycomb. When the bees are very young, the honey undergoes less change and remains nearly white; in this state it is called wirgin honey. At all times it partakes of the qualities of the plant from which it has been derived. Hence, some varieties of honey obtained from the azales, rhododendron, &c., are poisonous. The most wholesome kinds are derived from the genus Evica, called heather-honey, and from most lablate plants. H. differs much in color and consistence; it contains a considerable quantity of saccharine matter, and some muchaes from which it derives the software and viceralize. siderable quantity of saccharine matter, and some muci-lage, from which it derives its softness and viscosity. It ferments very readily, and yields a strong vinous liquor called mead. There are two varieties of H., one It ferments very readily, and yields a strong vinous liquor called mead. There are two varieties of H., one yellow, transparent, and of the consistence of turpentine; the other white, and capable of assuming the solid form, and of concreting into regular spheres. These two species are often united, and may be separated by means of alcohol, which dissolves the liquid H. much more rapidly than the solid. H is the production of most countries, but is more particularly abundant in the island of Candia, and in the greater part of the islands of the Archipelago. The H. of Sicily appears to be particularly high-flavored, and in some parts of the island to surpass even that of Minorca, owing, no doubt, to the quantity of aromatic plants which overspread that part of the country. This H. is gathered three times in the year,—in July, August, and October. It is found by the peasants in the hollows of trees and rocks. The country of the lesser Hybla is now, as of old, chiefly celebrated for its honey. H. is much used in making preserves and confectionery; and, in its natural state, to put on bread. It is also used as a demulcent medicine against hoarseness, catarrh, &c.; and enternally to promote suppuration. In its clarified state, it is used to sweeten certain medicines. It is more aperient, and detergent than sugar, and is particularly serviceable in

promoting expectoration in disorders of the breast. For these and other like purposes, it is often mixed with vinegar, and boiled down to a proper consistence over a slow fire, when it forms the oxymel of commerce. H. was one of the first articles of human nourishment. The Hom'ey-sweet, a. Mellifluous; sweet or luscious as was one of the first articles of human nourishment. The delties of ancient Greece were supposed to live on milk and H. Aristotle, and several other learned writers, and probably the ancients generally, did not know where H. originally came from; they imagined that it fell from heaven like rain. Pliny was unable to decide whether it decoended from the heavens generally or from the stars, or was a juice formed by the purification of the air, and afterwards collected by bees. In all the works of the ancients, much importance is attached to H. and the care of bees. Bee-keeping is a branch of agriculture of great importance in some of our States, but as few bee-keepers keep an account of the product of their hives, the returns of the yield of honey are very imperfect. The average yield of H. throughout the U. States 228 pounds per hive. The average price is 20 to 25 cents per pound. See BES.

"Matter:... that forever mare the heavy of his language." Shake."

HONE

"Matter . . . that forever mare the honor of his language." & weet one; my precious darling; dear one;—a word tenderness. (Of common use among the Irish.) of tenderness.

"Ah. Katle, my honey, your eyes me beviller."—Meagen.

Honey, r. s. To talk fondly or soothingly; to ply with
endearments or soft language; to flatter; to fawn; to

ring and making love over the nasty sty." — Shake -v. a. To sworten, as with honey; to make agreeable.
"Boneyed lines of rhyme." — Byron.

Hon'ey-bag, n. The stomach of a honey-bee.

Hon'ey-bag, n. The stomach of a honey-bee.

Hon'ey-bee, n. (2081.) See BEE.

Hon'ey-breek, in Pannyleania, a post-township of

Hon'ey-bussard, n. (Zool.) A species of have is apivorus.

Fernic apverus.

Hene'ey-comb. (-kôm.) n. A thick, viscid, tenacious substance, formed by bees into hexagonal cells for repesitories of honey, and for the eggs which produce their young.— See BEE.

Anything having little cells like a honey-comb.

Hene'ey-combed, a. Having little flaws, cells, or perforations resembling honey-combs; as, a honey-combed cannon.

combed cannon.

Hon'ey Creek, in Illinois, a township of Adam

Honey Creek, in Indiana, enters the Wabash Rive

Honey Creek, in Islands, values of the co.

—A post-rillage of Henry co.

—A township of Howard co.

—A township of Vigo co.

—A township of White co.

—A township of White co.

—A township of Iowa co.

—A township of Iowa co.

—Honey Creek, in Ohio, enters the Sandusky river, in Managery Creek, in Ohio, enters the Sandusky river, in Ohio, enters the Sandusky river, in Managery Creek, in Ohio, enters the Sandusky river, in Ohio, enters the Ohio, enters the

Senera co.

Honey Creek, in Missouri, a village of McDonald co.

Honey Creek, in Wisconsin, enters the Wisconsin river in Sauk co.

—A village and township of Sauk co.

—A pust-village of Walworth co., about 30 m. 8.W. of Mil-

Honey Cut, in Alabama, a village of Macon co.

Honey Cut, in Alabama, a village of Macon co.

Honey-dew, n. A sweet substance ejected by insects of the genus Aprils (q. v.).

A kind of tobacco sweetened with molasses, &c., and

caked into a solid mass; as a plug of honey-dess.

Hon'eyed, Hon'led, a. Covered with honey; con

Hon'eyed, Hon'ied, a. Covered with honey; containing honey.

Sweet; tender; soothing; as, honeyed speech.

Hon'ey-flower, n. (Bot.) See Mellanthus.

Honey Grove, in Penna, a post-village of Juniata co.

Honey Grove, in Penna, a city of Famin co., 85 m.

N.E. of Dallas, on Tex. Pac. B. R. Pop. (1897) abt. 2,050.

Honey-guide, n. (Zoil.) A species of Cuckoo, Cocalas indicator, which inhabits various parts of Africa, and is celebrated for its curious habit of guiding the natives to the nests of wild bees, enticing them to the spot by fitting before them and referenting a peculiar cry.

Honey-harvest, n. Store of honey collected.

Honey Hill, in South Carolina, a post-office of Berkeley co.

ley co.

Honey Lake, in Culifornia, a remarkable lake in the north east part of Lassen, on a high plateau between two ildges of the Slerra Nevada. It covers an area of about 250 sq. m., and though it has no visible outlet, it is said to have entirely dried up in 1840.

Honey-less, a. Without honey.

Honey-locust, a. (Bot.) See GLEDITSCHA.

Hon'ey-moon, Hom'ey-mouth, a. The first month after marriage.

Hon'ey-mouthed, a. Smooth-spoken; glib; persuasive; soft-tongued.

sinaive; soft-tongued.

Honey Point, in Missois, a township of Macoupin

county.

How'ey Springs, a locality in Kansas near Elk Creek, 25 m. S. of Fort Blunt. A sharp action of two hours duration was fought here, July 17, 1863, between 6,000 Confederate troops under Gen. Cooper, and 3,000 Union men commanded by Gen. Blunt. The former suffered a defeat, leaving 150 men dead on the field, and 77 prisoners, besides suffering a loss of 400 men wounded. National loss 77 men, of whom 17 were killed. Henrey-stalk, c.4stock, N. The clover-flower. Henrey-stalk, c.4stock, N. The clover-flower. Henrey-stone, s. Same as Mellitz, q. v. Hon'ey-sucker, s. (Zod.) A family of birds, closely allied to the Humming-birds, Trochilide, and peculiar to New-Holland.

hones

'ey-tongued, (-tongd.) a. Soft and persuasive

Hom'ey-tongued, (-toaga,) a. Soft and persuasive of speech.

Hom'eyville, in Virginia, a village of Page co., abt. 137 m. N.W. of Richmond.

Homey Water, s. A very agreeable perfume, made by dissolving the essential oils of pergamot, cloves, and lavender, a few drops of attar of ruses, and come must, in spirits of wine; after digesting for some days, and staining with Saunder's wood, it is filtered and fit for the toller. toilet

toilet.

Homfleur, (houng'fur.) a fortified town and semport of France, dept. Calvadoa, on the left bank of the Seina, opposite to Havre, from which it is 6 m. distant. Manuf. Lace, hardware, butter, and alum. It has an excellent harbor sheltered by a pier. Pop. 10,361.

Homg, the name given by the Chinese to any factory belonging to European merchants at Canton. The Hong merchants were ten or twelve natives who were the only one limit for the desired on the

ones legally entitled to trade with foreigners, or "the outer barbarians." Since the last Chinese war (see China), however, the facilities for trade have been greatly increased, and commerce, instead of being monopolised by the Hong merchants, has become more

Hong'-Kong, an island of China in the Bay of Canton E. of Macao, Lat. 22° 10' N., Lon. 111° 50' E.; area, 32 sq m. It was given to the British by the treaty of Nan-Kin in m. It was given to the British by the treaty of Nan-Kin in 1842, depends on the presidency of Calcutta, and has Victoria as capital. Pop. (1897) 2:36,200, of whom about 18,000 are Europeans.

Homical, http://doi.org/10.000/10.10000/10.1000/10.1000/10.1000/10.1000/10.1000/10.1000/10.1000/10.1000/10.1000/10.1000/10.1000/10.1000/10.1000/10.10000/10.1000/10.10

from that even described of the Hawaiian I-lands, in the slame of Oshu, on the bay of the same name, Lat. 21° 18′ N. Long., 157° 55′ W. It is the residence of the king and of his government, and the centre of the chief inter-

and of the covernment, and the center of the chief interests of the islands. A line of steamers runs from Sau Francisco to Australia, touching at Honolulu.

Homor, Homour, (ôn'er.) n. [Lat. homor, homos; Fr.
homeur, it. omôre; Sp. homôr, akin to ir. omôr, and
probably allied to Gr. años, praise.] Esteem, respect,
or consideration due, or paid, to worth; high estimation
or praise; — when used in reference to the Creator, eration : reverence.

Honour and shame from no condition ris Act well your part, there all the Acnour Dignity; exalted place or rank; distinction; fame; high moral worth; true nobleness of mind; magnanimity;—more especially in men, probity; integrity;—in women, chastity; purity.

"We mutually pledge...our lives, our fortunes, and our secred honour."—Jagreese.

Scorn of meanness, springing from the fear of repreach assumed appearance of nobleness; real or affected n of sense, as regards what is right, just, and proper. "The jingling of the guinea helps the hurt that Honour f

Any particular quality or virtue much valued; dignity of mien; noble appearance; high rank, and, someti reputation; that which honors. " He gave his henours to the world again." - Shake

A testimony of esteem; any expression or token of respect or high estimation; a title of dignity or distinction; nerally in the plural; as, he military hon

An ornament for the person; a decoration bestowed and worn as a badge of merit or distinction.

"Man . . . bears his blushing Aoneurs thick upon him." -pl. (Games.) In card-playing, the four highest cards, or court-cards — the ace, king, queen, and knave; as, (in Whist.) two by honors, and the odd trick.

-pl. In the English universities, the highest academic

prizes or distinctions; as, to read for honors; he took nors at Cambridge, &c.

(Feud. Law.) A seigniory of the nobler sort, having several inferior lordships and manors dependent upon

ert. (Frud. Law.) A court held in an honor o

manorial jurisdiction.— Court of H. See CHIVALEY.
H. (Legion of). (Fr. Hist.) See LEGION OF HONOR.
H. (Maids of). In the courts of European sovereigns, ladies whose duty it is to attend the queen when she

appears in public.

Honors of War. (Mil.) Certain stipulated terms granted Honors of War. (Mil.) Certain stipulated terms granted to a beaten enemy, by which he is permitted to march out of a fortress or town, or from a camp or a line of intrenchments, with all the pomp and pageantry of military etiquette The term is also used to signify the compliments offered to high personages or military heroes when they appear before a body of armed men, or such as are given to the remains of a deceased officer.

Code or law of honor. See Chivaley, Duelling.

On one's honor. On the pledge of one's personal honor; on the stake of one's moral integrity: as, in England, the peers, or members of the upper house of parliament, give their opinions, not under oath, but on their homor.

"My had to thee, my honour on my promise."—Salak.

"My hand to thee, my honour on my promise."—Shake.

To do the honors. To perform the duties of a host; to show attention and civility to guests or visitors; to act the part of a guide or cicerone.

"To do the honours, and to give the word." v. a. [Lat. honoro; Fr. honorer.] To hold in esteem respect, reputs, or regard; to revere; to treat with deference and submission; and when employed with reference to the Almighty, to reverence, to manifest the highest veneration for in words and actions, to enter-tain the most exalted thoughts of, to worship, to addre.

"Fear God, honour the king."—1 Poter il. 17. on should honour the Son, even as they honour the

To dignify; to raise to distinction; to bring into fame or notice; to elevate in rank, station, or reputation; to render celebrated or illustrious; to exalt; to treat with due ceremony, civility, or attention.

How lov'd, how honour'd once, avails thee not.

"How lov'd, how honeser'd coo, avails thee net."—Page.

(Lim.) To accept and pay when due, as a draft, &c.;
as, to honor a bill of exchange.

Hom'orable, Hom'ourable, a. [Fr. honorable;
Lat. honorabitis.] Worthy of honor, regard, respect, or
esteem: holding a high or distinguished rank in suciety;
illustrious; noble; of gentle birth.

"Advance your name and honourable family."—Shake.

Possessing a high mind, covered hw. nice scene of

Processing a mign mind, governor by a honor, rectitude, and propriety; actuate regard for veracity, probity, and fidelity. "Casar was an honourable man."—I

Achieved by prowess or noble actions; conferring honor, me, or dignity; as, konorable wounds.
"Think'st then is hencurable for a neb Still to remember wrongs?"—Sheks.

Consistent with honor or reputation; proceeding from a laudable, fit, or reputable cause; not base; not mean; not repreachful: sa, an konorable motive.

The king's cause is just, and his quarrel Assessment Honest; fair: open; without deceit or hypocrisy; equitable; as, his intentions were perfectly honorable.— Not to be disgraced; above suspicion of wrong or ill.

"Lot ber d d, my el Performed with marks of public honor; accompanied with testimonies of esteem and regard.

" Vonchenfe her an honourelle temb."

—An appellation or epithet of respect, distinction, or courtesy; as, the honorable gentleman, the honorable senator, the honorable court, the honorable member.—Appropriate or becoming persons of station and character; tending to support dignity, self-respect, and reputable position in life; as, an honorable means, a State or quality of being honorable; distinction; elevation of station; eminence of reputation.—Fairness; probity; integrity; fidelity; moral rectitude.

Honorably, Heas'ourably, adv. In an honorable manner; with tokens of honor or respect; magnanimously; generously; nobly; worthily; justly; equitably; fairly; reputably.

"Ye gods, wy did I not more honorably starre?"—Depica.

"Ye goda, why did I not more honourably starre?" — Dryden.
Homers'rium, Hom'erary, n. [Lat., from home, honor.] A term used in Europe almost synonymously with fee, and, as applied at the present time, chiefly to the feet tendered to the professors in universities, and to medical or other professional gentlemen for their services. It was originally applied solely to the salaries of great officers of state, whose services it was considered were remunerated only, as it were, homoris cruss,—a shade of meaning which is still perceptible in the present use of the term.
Hom'orary, a. [Fr. homoraire, from Lat. homoraries.]

Possessing a title or position of dignity without performance of services or pecuniary recompense; as, an Account and a simply to bestow honor or reputation; as, an account of the signed simply to bestow honor or reputation; as, an account degree.

honorary degree.

Honora'tus. There are two mints of this name in the Roman calendar. The Arst, bishop of Aries and founder of the monastery of Lerius, died 429. The second, bishop of Marsellies, and a religious writer, was born about 420 or 425.

Hon'orer, Hon'ourer, s. One who honors or re-

veres. (E.)

Homo'rius, son of Theodosius the Great. born 384,
became emperor of the West, and his brother Arcadius
emperor of the East, on the death of Theodosius, 395;
died, after being abanefully subjugated by the Gothe
under Alaric, 423.

unuer Alaric, 450.

Honorius I., Pope, succeeded Boniface V. in 625, and governed with seal and prudence. D. 638.

Honorius II., of Bologna, succeeded Calixtus II. in 1124, and, at the same time, Thibauld was chosen by another party, under the name of Celestin; but he resigned the chair to his rival. D. 1130.

chair to his rival. D. 1130.

HONORIUS III., was made pope after Innocent III., in 1216. D. 1227.

HONORIUS IV., a Roman, ascended the papal chair in 1283. He displayed great zeal for the church, and promoted the crasades. D. 128.

Hon'orless, Hon'ourless, a. Without honor; unworthy of honor.

Hood, s. [A. 8. hôd; German hat, a head-covering, from hūten, to guard; Sansk. chad, to cover. See Har.]

A covering for the head used by females.

— A cowl; a covering for the head and shoulders worn by monks.

(Sports.) In falcon-ry, a covering for a hawk's head or eyes. Anything to be drawn over the head to cover it; as, the hood of a



cloak or escque-isure. — A fold hanging from the neck of an academic gown; as, a master-of-arts' hood, a graduate' hood.—Any covering resembling a hood, or answering the purpose of a hood; as: (1) The head of a carriage, (2) A cowl, often movable on a pivot; as, the hood of a chimney. (3) The top of a pump.

(Nest.) The cover or porch of a companion-way.

-s. a. To dress, as in a hood or cowl; to put on, as a hood of the cover; to blind; to hide; to darks, a hord-hook, a both-hook, a both-hook.

" While grace is saying, I 'll lood mine eyes." — Shake

Hood, (hād.) [A.S. had; D. hood.] A termination employed in the composition of words denoting quality, condition, character; as in manhood, childhood, knight-hood. It is used, sometimes, after the German style, (-heat, -head,) as in godhead, maidenhead, &c.

Hood, Rosin, a chivairous outlaw of the reign of Richard I., whose exploits in Sherwood Forest are the sub-

ard I., whose exploits in Sherwood Forest are the sub-jects of many admired ballads. All the popular legends celebrate his generosity and skill in archery. The principal incidents of his history are to be found in Stow, and a complete collection of the ancient poems, songs, and ballads relating to him was published by Ritson in 1706.

Brow, and a complete collection of the ancient poems, songs, and ballads relating to him was published by Ritson in 1796.

Head, Sanuzi, Viscouny, an English commander, s. 1725; distinguished in several actions at the beginning of the war against France, particularly at the bombardment of liarre; the defeat of Admiral De Grassen under Bodney; slege of Toulon and the capture of Corsica; after which he was made Governor of Greenwich Hospital, and promoted to the rank of admiral. D. 1816.

Head, Thomas, an English poet and humorist, s. in London, 1798. Early in life apprenticed to an engraver, H. soon neglected that art and applied himself wholly to literature. In 1821 he became sub-editor of the "London Magazine," and, consequently, a member of that brilliant coterie of writers, including Charles Lamb, Hazlitt, Hartley, Colertidge, Talfourd, Bowring, &c., whose utterances spoke through its pages. In 1826, H. brought out his Whims and Odditics, and in 1827 National Tites. In the latter year he also published a volume of "Poems," among which appeared the exquisite Plos of the Midsummer Pairies. In 1830, he began the publication of the Chmic Annual, which continued for ten years. In the year following appeared his Tylney H III, a novel. Retiring from the editorial chair of the "New Monthly Magazine," in 1843, he, the next year, started "Hood's Magasine," which flourished until his decease. In this year, too, he gave to the world, through the columns of "Punch," his immortal Song of the Shirt, along with its scarcely less powerful sister-poem, the Bridge of Sighs. While on a s'ek-bed, from which he never rose, H. received from the English govt a pension of \$500 per annum, which, after his death in 1845, was continued to his widow. The best editions of H's works published in this country have been published in Boston, one in 4 vola, 1856, and another in Professor Child's edition of the British Poets, (4 vola, 1869.)

Head'Gus, R. A. lidol-shaped.

Head'Gus, A. A. low fellow; a rowdy; a vagabond (Lord II S)

ends of planks which at into the rabbets of the stemand stern-posts of a ship.

Reed'Imm, a. A low fellow; a rowdy; a vagabond
(Loal U.S.)

Frond'-mam-blind, a. See Blindman's Burr.

Heed'-mould, Heed'-moulding, a. (Arch.)
A band or string over the lead of a door, window, or
other opening, in a medisval building; so called from
its enclosing, as within a hood, the inferior mouldings
and the opening fiself. The character of the mouldings
differs slightly in Norman and Pointed architecture;
being in the former merely a fillet accompanied by a
splay, often ornamented with a billet and signag; and
in the latter an ogee moulding with a hollow on the side
of the tracery. In the English and the Perpendicular
styles, the H.M. are often terminated by brackets,
shields, or besis. The term is also applied, in Gothic
architecture, to the label or label-moulding, (q.v.) (Called
also drip-done.)

Head River, in Oregon, enters the Columbia River in

also drip-dond.)

Hood River, in Oregon, enters the Columbia River in Wasco co. about 25 m. W. of Dallas City.

Hood's Camal, or CHANNEL, in Washington, a narrow inlet extending S.W. from Admiralty Inlet.

Hood's Milis, in Maryland, a post-vill. of Carroll co.

Hood's River, a river of British N. America, enters Curonation Gulf about Lat. 1099 W.

Hood wink. v. a. [Hood, and wisk.] To blind by covering the eyes of.

"We will blind and hooderink him."

-To cover; to hide. — To deceive by external disguise; to impose on by practising on credulity or plastic disposition.

"His wife hoodwinked him to her infamy."—Cores.

"His wife hoederlaked him to her infamy."—Carese.

Heef, m: pl. Hoors, and (but rarely) Hooves. [A. 8. & hc/, hc/; D. hc/; Dan. hov; Ger. huf; Gr. hopt2, a tool, implement; pl. harness, armor.) The horny substance that shields or defenda, covers or terminates the feet of certain animala, as the horse, &c.—An animal; a beast; —hence, by implication, any part, remains, or trace of a hoofed thing.

—c. a. To walk as cattle. (a.)

Heof-bound, a. (Firriery.) A term denoting that the horse or other hoofed animal has a pain in the forefect, occasioned by the dryness and contraction of the horn, which often occasions a lameness.

Heofed. (hc5ft,) a. Having hoofs; furnished with hoofs: as, hoofed quadrupeds.

Heofless, a. Without hoofs.

oy the junction of two w. branches of the Ganges.—See Ganges.

Hook, n. [A. 8. hoc. hoor; D. haar; Dan. hage; Iosi. haki; Heb. chakka, akin to Lat. when, crooked, and Gr. angkos, a bend.] A piece of iron, or other metal, bent into a curve for catching, holding, or sustaining anything; as, a fish-hook, a bend-hook, a benter-hook, a put-hook, a boat-hook, dc.—That which catches; a trap; a snare; a spring; a. "that hook of wiving." (Shaks.) — An instrument to cut or lop with; a sickle; as, a resping-hook, a bill hook. — That part of a hinge which is fixed or inserted in a post or upright. — An advantage; a catch; a haul. (Vuigar.)
(Naul.) In a ship, a forked timber placed on the keel. (Mach.) An excentric hook. See V-HOOK.
(Agric.) An English provincialism, signifying a field sown two years successively.

—pl. The protuberant parts of the thigh-bones of cattle. (Sometimes called hook-homes.)

By hook or crook, one way or other; by any means or method, direct or indirect.

Of the hooks, unhinged; perturbed; disordered; out

of the hooks, unhinged; perturbed; disordered; on of temper.

"She was . . . easily put of the hooks, and most pleased again."—L'Estrange.

On one's own hook, on one's own account; self-responsible; by one's self. (Colled, and vulgar.)

-e.a. To catch with a hook; to seize and draw, as with a hook; as, to hook as aslmon. —To draw, entice, or procure by artifice or stratagem; to entrap; to ensnare; as, "Her I can hook to me."—Shaks.

To purion; to pifer; to steal; to rob; as, to hook a purse. (Cant.)

purse. (Cant.)

To hook it, to make one's escape; to decamp; to elope; as, he hooked it home. (Vulgar.)—To hook on, to fasten, fix, or attach by means of a hook.—(Mach.) To connect the valve-gear with the locomotive-engine, so as to give automatic motion to the valves.

—v. n. To be curved; to bend in a semi-elliptic manner.

Hook, a parish of Ireland, in Leinster, co. of Wexford, forming the S. extremity of the peninsula which protects the Waterford harbor. On its S. point there is an ancient and curious tower, now used as a light-house.

ancient and curious tower, now used as a light-house.

Hooked, (Acokt.) a. Possessing the form of a hook; curvated. — Furnished with a hook or hooks; as, a

curvated.—Furnished with a hook or hooks; as, a "hooke chariot." — Millon.

Hook'edness, n. Incurvation; state of being bent semi-elliptically, or like a hook.

Hook'er, n. One who, or that which, hooks.—(Naut.)

A fishing-smack; a small vessel peculiar to the Dutch and Irish coasts.

A fishing-amack; a small vessel peculiar to the Dutch and Irish coasts.

Hook'er, Joseph, an American general, a. at Old Hadley, Nov. 13, 1813. Entering West Point Academy in 1833, he graduated in 1837, and received the appointment of 2d Lieutenant in the lat U.S. Artillery. He served first during the Florida War, and afterwards on the N. Frontier, where he was appointed to the rank of Lat Lieutenant. On the breaking out of the Mexican War, H. was attached to the staff of Brig. Gen. P. F. Smith, and distinguished himself in the battle of Monterey, Sept. 21-23, 1846, for which he was trevetted Captain. During the succeeding conflicts at Contrens, Cherubusco, Molino del Rey, and in the storming of Chapultepec, he also took an active part; but in 1853, resigning his commission, he settled upon a farm near Sonoma. California. In 1858 he was appointed Superintendent of Military Roads in Oregon, and surveyed a line from Stillicome to the 49th parallel on the E. bank of Puget Sound, in Washington Territory. From 1859 to 1861 he was Colonel of the California Milltia, and on the commencement of the civil war was appointed Brig. Gen. of U. S. Volunteers, and assigned to the defence of Washington; he was afterwards engaged in the Slege of Yorktown, and, in May, 1862, promoted to the rank of Maj. Gen. of Volunteers. In the subsequent tastles of Williamsburg, Fair Oaks, Glendale, Malvern Hill, and in many other less important engagements taking place letween May and Angust, 1862, his conduct firmly established his right to the sobriquet of "Fighting Joe Hooker," given him by his soldiers. In the Northern Virginia Campaign Gen. H. commanded a division, and was engaged in the battles of Bristoe Station, Manassaa, and Chantilly. At the battles of Bristoe Station, Manassaa, and Chantilly. At the battles of Bristoe Station, Manassaa, and Chantilly. At the battles of Bristoe Station, Manassaa, and Chantilly. At the battles of Bristoe Station, Manassaa, and Chantilly. At the battles of Bristoe Station, Manassaa, and Chantilly. At claim actions as to elicit the highest praise from Gen. Mo-Cleilan. In the latter battle Gen. H. received a severe wound in the foot, but by Nov. 10, however, he was again in the field, and assigned the command of the 5th Corps. Soon after he was placed in command of the Centre Grand Division, and finally of the entire Army of the Potomac, in which capacity he was present in the battles of Fredericksburg, Kelly's Ford, and Chan-cellorsville. Between Oct., 1863, and May, 1864, Gen. H. was engaged in the operations about Chattanooga, tak-ing a conspicuous part in the battle of Lookout Valley, the capture of Lookout Mountain, and the battle of Missionary Ridge. On Jan. 23, 1864, he received the thanks of Congress for the skill, energy, and endurance which first covered Washington and Baltimore from the meditated blow of the advancing and powerful army of rebels led by Gen. Robert E. Lee." In the invasion of Georgis he commanded the 20th Corps (Army of the Cumberland), and took part in the combat at Mill Creek Gap, and the battles of Resecca and Bullas, besides that memorable approach to Pine Mountain, May 26 to July norable approach to Pine Mountain, May 26 to July

2, which was marked by almost daily severe engagements. Then followed in rapid succession the pursuit of the enemy to the Chattahoochie; the actions near Atlanta; the combat of Peach Tree Creek; and, finally, the siege and capture of Atlanta. From Sept. 28, 1864, to July 5, 1865, Gen. H. was in command of the Northern to July 3, 1865, Gen. II. was in command of the Northern Dept., with his headquarters at Cincinnati, Ohio. He retired from active service, at his own request, on full rank of Maj. Gen., Oct. 18, 1868. D. Oct. 31, 1879. Hook or, Ruchard, an English divine, a in Derbyshire. 1554. He took orders about 1681, and soon after mar-

ried Joan Churchman, who brought him no bessity, nor money, nor peace. After holding some minor preferments he was named Master of the Temple, in 1885. The contromoney, nor peace. After holding some ninor preferments he was named Master of the Temple, in 1585. The controversy in which he was there involved with the Puritan Walter Travers, is said to have occasioned the project of his great work, The Laws of Ecclesiastical Polity. For quietness and leisure in its composition, he removed to Boscombe, in Wiltshire, in 1591, whence four years after he went to Bishopsbourne, in Keut, and he sought no higher preferment. Four books of his a Ecclesiastical Polity "were published in 1594, a fifth in 1597, and the last three after his death. Its profound philosophical groundwork, its vast learning, and dignity and elequence of style, have given it a place among the master-pieces of English prose literature. D. 1600. His life was written by Izaak Walton.

Hooker, Str. WILLIAM JACESON, an English botaniet, B. at Norwich, 1785. He early devoted himself to the study of nature, and soon chose botany for his special pursuit. Between 1806–1814 he made extensive travels for the purpose of collecting plants, and became the friend and correspondent of the most eminent men of science of his day. He was knighted by King William Values and the ware laws were heartened and the stream of the content of the content of the stream of the purpose of the skinghted by King William Values and Stream of the stream o

friend and correspondent of the most eminent men of science of his day. He was knighted by King William IV. in 1836, and five years later was appointed Director of the Kew Gardens. His botanical works are very numerous and of standard authority. Among them are his Tour in Iceland, Muscologia Britannica, Flora Scotica, Exotic Flora, British Flora, and Icones Filicess, the last published in conjunction with Dr. Greville. H. was F.B.S., a vice-president of the Linnson Society, Oxford, D.C.L., and a member of the Legion of Honor. D. 1865. — His son, Joseph Datron H., B. 1816, is a somewhat distinguished botanist, and author of many valuable works. He succeeded his father as Director of the Kew Garuells, holding that position until 1885.

He succeeded his father as Director of the Kew Garuens, holding that position until 1885.

Hooker, in Indiana, a post-office of Washington co.

Hooker, in Panaghennia, a post-office of Butler co.

Hooker, in Possiphennia, a post-office of Turner co.

Hooker, in South Dukota, a post-office of Turner co.

Hookerton, in North Corolina, a post-village of Greene co., about 82 m. S.E of Raleigh.

Hookersville, in West Virginia, a post-office of Nicholas co.

Nicholas co

Nicholas co

Hook'ey, n. (Games.) Same as Hourt, q. v. —Blind
Hookey. (Games.) See Blind Hookey.

Hook'-laddler, n. A ladder with hooks at one end,
used at the extinguishing of free.

Hook'-mostlom, n. (Mach.) A valve-gear in a steamengine reversed by V-hooks.

Hook'-mosed, (-nåsd.) a. Having a curvated, aquiline or Roman nose; hawk-nosed.

Hook'-pins, n. p. (Carp.) Taper iron pins, only
with a hook-head, to pin the frame of a roof or floor together.

with a hook-need, to pin the name of the section gether.

Hook set, in New Hampshire, a post-township of Merrima co., on the Merrima River, abt. 9 m.8. by E. of Concord. Pop. (1897) about 1,900.

Hooks Mills, in West Verginia, a P. O. of Hampshire co.

Hooks town, in Mississippi, a P. O. of Lauderdale co.

Hooks town, in Pensylvenia, a pest-borough of Beaver county, about 242 miles W. by N. of Harrishney

Beaver county, about 242 miles W. by N. of Harrisburg.

HOOK'y, a. Relating or pertaining to, or full of hooks.

HOOK, y, a. Relating or pertaining to, or full of hooks.

HOOK, y, a. Relating or pertaining to, or full of hooks.

HOOK, y, a. Relating or pertaining to, or full of hooks.

Hook, y, a. Relating or pertaining to, or full of hooks, or fastens; a ring; anything circular.

A quarret...sbort a seep of gold, a palty ring."— Saaks.

A band of wood or metal used to confine and hold together the staves of casks, kegs, tubs, &c., or for similar purposes. — A farthingale; a circular frame-work of some elastic material, as whalebone, steel, &c., used for expanding the skirt of a woman's dress; crinoline.

"All that keeps are good for is to clean dirty shoes, and to keep " All that heope are good for is to clean dirty shoes, and to keep the follows at a distance." — Bicherdson.

the fellows as a distance. — Richardson.

A quart pot or drinking measure. The original quart pot of our ancestors was bound with hoops (usually three) after the manner of a cask, so that, when filled with liquor, each drinker would take his hoop, or, in other words, the quantity contained between two hoops. —An old measure of capacity, or dry measure, containing from one to four pecks, as variously estimated.

—e. a. To fasten, bind, or confine with hoops; as, to hoop a barrel. — To encircle: to surround; to clasp.

—e. a. To drive with a shout, yell, or outcry; to pursue with a halloo. — To call by a whooping shout or cry.

Hoops, a. A shout: a whoop: a hoarse call.

with a halloo. — To call by a whooping shont or cry.

Hoop, n. A shout; a whoop; a hoarse call.

(Zoll.) See Hoopes.

— n. [See Wesor.] To hoop; to utter a loud cry; to emit a particular sound of voice by way of call or hue and cry; to halloo; to shout. (More correctly written Wesor.)—To whoop or cough, as in the whooping-cough.

Hoop'er, n. One who hoops casks, tubs, &c.; a cooper.

(Zoll.) The Wild Swan, Cygnus ferms.

Hoop'er, John, an English martyr of the reformation, a in Somersesshire, 1495. He was appointed bishop of Worcester by Edward VI.; but on the accession of Mary, he was required to recant his opinions, and on his refusal was coudemned to the flames, in 1555. He wrote several books, including Twelse Lectures on the Oread.

Hope'er's Valley, in New York, a P.O. of Tiogs co.
Hoop'ersville, in Maryland, a P.O. of Dorchester co.
sound.] To utter a call or shout in contempt; to his or cry out against in derision.

"Alebes" inspiration of breath. On account of the violence of the cough attending this disease, the term pertussis has been applied to it; and on account of the recurrence of the cough in paroxysms, it is also known by the name of "chin" or "kink" cough. H-C. ceems to have been unknown to the ancients, as no mention of it is made in the medical works of the Greeks, R. man, and Arabians. It has, however, prevailed for several centuries in various countries of Europe, and on account of its frequent occurrence, and the danger with which it is often accompanied, it has occupied the attention of physicians considerably. The symptoms commence with a simple catarrh, indicated by a cough, and the expectoration of a limple fluid; by reduces of the conjunctives, a watery discharge from the eyes and nostrils; hoarseness, and coccasional sneezing. These symptoms are generally as companied by slight feverishness, and the patient is low-spirited and languid. Thus far the disease closely resembles a common cold; but at the end of about one or two weeks, the character of the affection changes. The fits of coughing become more long and frequent; a sensation of tickling in the larvay and tractes a common to tickling in the larvay and tractes a common of tickling in the larvay and tractes a common of tickling in the larvay and tractes a common of tickling in the larvay and tractes a common of tickling in the larvay and tractes a common of tickling in the larvay and tractes a common of tickling in the larvay and tractes a common of tickling in the larvay and tractes a common of tickling in the larvay and tractes a common of tickling in the larvay and tractes a common of tickling in the larvay and tractes a common of tickling in the larvay and tractes a common of tickling in the larvay and tractes a common of tickling in the larvay and tractes a or two weeks, the character of the affection changes. The fits of coughing become more long and frequent; a sensation of tickling in the larynx and traches accompanies each fit, during which the inspirations are irregular, especially in the case of children, whose faces bear an expression of anxiety and fear. When the fit comes on, they cling firmly to the persons or objects near, and, if saleep, start up. The efforts of coughing then become or npid and violent, as to take away the breath; during the intervals, it is difficult to perceive any inspiratory movements, excepting at times when the cough is interrupted by a peculiar whooping sound, which has given this disease its common name. In young children, hooping-cough often becomes complicated with other diseases. The most common complication with children at the breast is cerebral congestion, giving rise to violent convulsions. H.-C. prevails as an epidemic disease, and children from birth to the period of second dentition are chiefly liable to it. Adult persons, however, are not exempt from it, and it sometimes happens in old age. The disease is very contagions, and when it once finds admission into a house, very few young persons, who have not had it previously, escape. It rarely affects the same individual twice, although this sometimes occurs. H.-C. is a very fatal malady; it is readily distinguished from any other disease by which its progress can be arrested: its severity, however, can be mitigated, and its duration diminished. It must, necessarily, run a certain course, which often, in spite of skilful treatment, may be long. The administration of emetics, in the earliest stages of the disease, is often efficacious; and tartar emetic, on account of its easy solubility and certain action, seems to be best suited for the purpose. In protracted cases, nothing appears to be so effective in putting a stop to the cough as change of air, which frequently succeeds when all other methods have failed. The diet should always be of the mildest description at the The fits of coughing become more long and frequent; a sensation of tickling in the larynx and traches accom

HOOS

fam. Certhiades. The species are natives of warm parts of Asia, Australia, and Africa, and are generally re-markable for magnifimarkable for magnifi-cence of plumage. U. epops, the common H. (Fig. 1309), is an Afri-can bird, a summer visitant of most parts of Europe, found also in the size of Asia. It is about the size of a missel-thrush; its plumage exhibits a fine mixture of white,



fine mixture of white, buff, and black: and it has a large creat of two parallel rows of feathers. The H. derives its name from its very frequent utterance of a low, soft sound resembling the syllable hoop.

Hoop'-pole, in Ohio, a post-office of Ross co.

Hoop'-akirt, Hoop'-pet'ticoat, n. Same as Carvoluse a. p.

CRINGING, q. v.

HOOPEN, (hoarn.) a fortified seaport of N. Holland, on
the Zuyder-Zee, 20 m. N.E. of Amsterdam. Manuf.
Woollon cloths and carpets; ship-building is also carried on to a considerable extent. It had, in past cenried on to a considerable extent. It had, in past centerminating numbers, and still exports much

ried on to a considerable extent. It had, in past centuries, a large foreign commerce, and still exports much outter and cheese. Pop. (1897) 11,100.

Hoo'sie, in New York, a township of Rensselaer co., about 27 m. N.E. of Troy. Pop. (1890) 10,471.

Hoo'sie Falls, in New York, a manuf. town in above township, on Fitchburg R. R. Pop. (1897) about 7,250.

Hoo'sie (or Hoo'sac) River, in Massachusetts, Vermont, and New York. Rising in Berkshire co. of the former State, and flowing N.W. through the N.W. corner of Bennington co., Vermont, it enters New York in Rensselaer co., and joins the Hudson river about 15 m. N. of Troy, in Washington co.

Hoosier (höö'zher), n. An appellation given to citizens of the State of Indians.

Somerset co.

Hoov'ertom, in Penna, a P. O. of Montgomery co.

Hop, v. n. [A.S. hoppen; D. huppelen; Ger. hilpfen;
Dan. hoppe; W. hobeiu, to hop, to caper. See Hir.] To
skip; to jump; to leap or spring on one leg; to spring
forward by leaps; to skip, as birds.

ns of the spring, hopping from spray to spray." Dryder To limp; to halt in one's gait; to walk lame.

"The limping smith . . . hopping here and there." — Dr.
-To dance; to caper; as, to hop the maxurka.
-n. A jump; a leap; a spring; a caper on one leg.

"I can go above a hundred yards at a kep, step, and jump."

Addis

An improvised dance; also, and in a vulgar sense, a

—An improvised dance; also, and in a vulgar sense, a dancing-assembly; a ball.
Hop, n. [D.; Belg. hoppe; Fr. houblon; Ger. hoppen, from haupt, head, top, with reference to the climbing nature of the plant.] (Bot.) A climbing plant, the flowers of which, also called hops, are used in brewing. See HUMULUS.

The berry or fruit of the dog-rose. — See Hip.
-r. a. To impregnate with hops.
"Brew in October, and hop it for long keeping." — Mort

-v. s. To gather hope; to collect the hop harvest.

Hopah'ka, in Mississippi, a village of Leake co., about
65 m. N.E. of Jacks v.
Hop-Bottom, a The stalk on which hope grow.

Hop Bottom, in Pennsylvania, a post-borough of

Hop Bottom, in Fernanicana, a post-corouga on Susquehanna co.

Hepe, n. [A.S. kopa; Dr. komp: Dan. kaab; Ger. koff-nung; akin to Gr. opeuō, for opripteuō, to lie in wait for, to watch] An expectation of some good; an expectation indulged with pleasure; a desire of some benefit or good thing, with at least a slight expectation of obtaining it; confidence in a future event; the highest degree of well-founded expectation of good; anticipation; trust.

"Hame! than marks of young desire."—Bickerstaf.

"Hope ! thou nurse of young desire."-Bickerstaff. That which gives hope; the person or thing which supplies basis of expectation, or promises the good fruition of one's wishes or desires; an opinion or belief grounded on substantial evidence.

"She was his care, his lope, and his delight."—Dry

v. n. [A. S. hopian; D. hopen; Dan. haabe.] To expect, with anticipation of, some good; to entertain a belief that some good is obtainable; to indulge in hope; not to give way to despair; as, to hope for the best.

To place confidence in; to trust in with assured expec-

tation of good.

tion of good. "He shall strengthen your heart, all ye that *kope* in the Lord. *Padims* xxxi. 24.

v. a. To expect with pleasurable anticipations, or a be-lief that it may be obtained; to live in hope; to look forward to possession or fruition of something desirable. "Cold, biting winter mars our hop'd for hay."— Shake

Hope, Thomas, at English gentleman of large fortune, celebrated for his works in illustrations of art, especially of ancient costume and the life of the Greeks. D.

Hope, in Alabama, a village of Lauderdale co.

Hope, in Alabama, a village of Lauderdale co.
 Hope, in Arkamaa, a post-town of Hempstead co., on the St. L., Iron Mt. & S. R.R. Pop. (1890) 1,937.
 Hope, in Indiana, a post-town of Bartholomew co., on the C., C., C. & St. L. R.R., about 12 m. N.E. of Columbus. Pop. (1890) 1,099.
 Hope, in Maine, a post-township of Knox co.
 Hope, in Mehipan, a township of Barry co.
 Hope, in New Yorke, a post-town and township of Warren co., about 10 m. N.E. of Belvidere.
 Hope, in New York a post-town and township of Ham-

Hope, in New York, a post-town and township of Hamilton co., about 55 m. N.W. of the city of Albany. Pop. (1897) about 600.

(1897) about 600.

Hope, in Pensapicasia, a post-office of Washington co.

Hope, in Pensapicasia, a post-office of Greene co., about 8 m. N. of Waynesburg.

Hope, in Rhode Island, a post-village of Providence co.

Hope, in Texas, a post-village of Lavaca co.

Hope Advance Bay. on the N. coust of Labrador,

British N. America, Lat. 60° N., Lon. 70° W.

Hope Centre, in New York, a village of Hamilton co., about 60 m. N.W. of Albany.

Hope/dale. in Plaining a post-village and township of

Hope'dale, in Illinois, a post-village and township of Tazewell co.

Hope'dale Hopedale Community, in Massachusetts, a post-town of Worcester co., about 35 miles S.W. of Boston. Pop. 1,100.

Hope'dale, in Ohio, a post-village of Harrison co., about 124 m. N. by E. of Columbus. Pop. (1897) about 450

gomery county.

Hop'eite, n. (Min.) A transparent, whitish, sometimes brown mineral, from the calamine mines of Altenberg, near Aix-la-Chapelle, supposed to contain phosphoric acid, oxide of xinc, and cadmium; sp. gr. 276-285.

Hope'less. a. Without hope; deprived of hope; de-Hope less, a. With sponding; despairing. "Alas! I am a woma

--

Giving no cause or ground for expectation of good; hav-ing no promise of hope for a thing desirable; irretriev-able; desperate; as, a hopeless cause, a hopeless attempt. "The hopeless word of never to return."—Maks.

-Unhoped for; without anticipation; unexpected; despaired of.
"Thrice happy eyes, to view the hopeless presence of thy brother."

Hope lessly, adv. Without hope.

Hope less ness, n. State of being hopeless: abandonment of hope; a state of being desperate, or afford-

donment of hope; a state of being desperate, or affording no hope.

Hop/er, n. One who hopes or anticipates.

Hope Towm, a village of British Guiana, S. America,
about 1 m. from Fort Wellington.

Hope Valley, in Hope lated Island, a post-village of Washington co. Pop. (1897) about 920.

Hope ville, in Iosa, a post-village of Clarke co., about
50 m. S.S.W. of Des Moines.

Hope well, a town of the province of New Brunswick in Albert co.

mope well, a lown of the province of New Stumwick, in Albert co.

Hopewell, in Illimois, a township of Marshall co.

Hopewell, in Indiana, a village of Jennings co., about

20 m. N.W. of Madison.

Hopewell, in Icoa, a village of Mahaska co., about

11 m. E.N.E. of Oskaloosa.

Hopewell, in Maryland, a post-village of Somerset co, on the N.Y., P. & N. R.R.

Hopewell, in Missesppi, a post-office of Calhoun co.

Hopewell, in Missouri, a post-office of Washington

Hopewell, in North Carolina, a post-village of Meck-lenburg co., about 160 m. W.S.W. of Raleigh. Hopewell, in New Jersey, a prosperous township of Cumberland co.

Cumberland co.

A post-town and township of Mercer co., about 12 m.

N.E. of Trenton. Pop. of town (1897) about 700.

Hepewell, in New York, a post-town and township of
Ontario co., about 12 m. W. of the city of Geneva. Pop.

(1890) 1,000.

Heppewell, in Ohio, a township of Licking co.

—A township of Mercer co.

—A post-village and township of Muskingum co., about

48 m. E. of Columbus.

—A township of Perry co.

—A township of Seneca co.

Hopewell, in Pennsylvania, a prosperous township of

Hopewell, in Pesssylvessia, a prosperous township of Beaver co.

—A post-township of Bedford co.

—A township of Cumberland co.

—A township of Washington co.

—A township of Washington co.

—A township of York co.

Hope'well, in South Carolina, a post-office of York co., about 30 m. N. of Columbia.

Hope'well Academy, in Missouri, a post-village of Warren co.

Hopewell Centure, in New York a post-office of

of Warren co.

Hope/weil Centre, in New York, a post-office of
Ontario co.

Hopewell Centre, in Pennsylvania, a post-village
of York co. Pop. (1897) about 100.

Hopewell Cotton Works, in Pennsylvania, a
post-office of Chester co.

Hopewell Cross Roads, in Maryland, a postvillage of Harford co. Pop. (1897) about 180.

Hope well Head, a cape of Labrador, between Lat.
57° N., and Lon. 77° W. It projects into Hudson's Bay,
B. America.

Hop'-garden, Hop'-yard, n. A garden, field, or inclosure where hope are cultivated and raised; as, Kent-

inclosure where hops are cultivated and raised; as, Kentish hop-gardens.

Hop-ingly, adv. With hope, expectation, or anticipation of good.

Hopital, (L'.) See L'Hôpital.

Hop kins, Sakuzi, an American divine, founder of the Hopkins of the loggy, B. at Waterbury, Conn., 1721. He was a pions and sealous man, with considerable talents, and almost incredible powers of application; but his theological opinions have given rise to much costroversy. He published numerous sermons, and earnestly advocated the abolitume of latery in the American States. From the year 1780 he presided over a congregation at Newport, Rhode Island, where he p. in 1898.

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Hep/kims, Stephen, an American statesman, and one of those who signed the Declaration of Independence, was B. in 1707, in that part of Providence which now forms the town of Scituate. In 1732 he was elected a representative to the general assembly from Scituate, and was chosen speaker of that body in 1741. In 1751 he was appointed chief justice of the superior court of Rhode Island, and, in 1756, was elected its governor. After this he was several times chosen a member of Congress, and B. in 1785. He was a clear and convincing speaker, and a good mathematician; and though he had received but a very limited education, his knowledge of literature, science, and political economy was varied and extensive.

literature, science, and political economy was varied and extensive.

Hop'kins. in Kentucky, a W. co.; area, about 550 sq. m. Rieers. Greeu and Poud rivers, and Tradewater creek. Surface, diversified; soil, generally fertile. Cap. Madisonville. Pop. (1890) 23,585.

Hop'kins. in Mismesoin, a post-twinship of Allegan co. Pop. (1897) about 2,000.

Hop'kins. in Mismesoin, a post-village of Hennepin co., ou C., M. & St. Paul and 2 other R. Rs.

Hop'kins., in Texas, a N. E. co.; area, about 750 sq. m. Rieers. White Oak Bayou and Lake Fork of Sabine river. Surface, diversified; soil, fertile. Cop. Sulphur Springs. Pop. (1890) 20,572.

Hopkin'siaus, n. pl. (Eccl. Hist.) The name given to those who adopt the theological opinious of Dr. Hopkin, q. v. They are not a distinct sect, but are pretty numerous in America, in some of the Christian bodies of which the tenets are generally Calvinistic. They hold most of the Calvinistic doctrines, and even in their most extreme form, but they entirely reject the doctrine of imputation, both the imputation of Adam's sin and of Christ's rightcousness. The fundamental doctrine of the H. system, however, is, that all virtue and and of Christs righteousness. The fundamental doc-trine of the *H* system, however, is, that all virtue and true holiness consist in disinterested benevolence, and that all sin is selfishness—the self-love which leads a man to give his first regard even to his own eternal in-terests being condemned as sinful.

Hop'kin's Mill, in Pennsylvania, a post-office of Greene co.

Hep'k in 's Mill, in Pennylonia, a post-office of Greene co.

Hop'k inseem, Francis, an American author and states—
man, and one of the signers of the Declaration of American Independence, was s. at Philadelphia in 1737. His father was the intimate friend and scientific coadjutor of Franklin. After graduating at the College of Philadelphia, and making the law his study, Francis visited England, and in a few years after his return entered Congress as a delegate from New Jersey. He produced many satires and ironical pieces, such as the Prophecy, the Political Catechism, &c., tending to ridicule the old country; while, at the same time, he directed his efforts against the ribadity of the newspapers, and the exaggerations and prejudices with which the Federal Constitution was at first assailed. After his retirement from Congress, he was appointed judge of the admiralty for Pennsylvania, and D. in 1791. Among his works, the greater part of which are of a political character, there are many sound essays and scientific papers, acute and learned judicial declarons, and a variety of songs possessing much sweetness and delicacy, which were rendered still more popular by the airs he composed for them.

Hopkins' Station, in Michigan, a post-village of

for them.

Hopk ims' Station, in Michigen, a post-village of Allegan co.

Hop'k insville, in Keniucky, a city, capital of Christian co., on L. & N. and O. V. R. Rs. and the Little river, 74 m. S. of Henderson. Pop. (1880) about 6,250.

Hop'k insville, in Michigen, a village and former post-office of Grand Traverse co.

Hop'k insville, in Ohio, a post-village of Warren co., about 85 m. S. W. of Columbus.

Hop'k intom, in Musecknesset, a post-town of Middlesex co., about 25 m. W. S. W. of the city of Boston. Pop. (1897) about 3,000.

Hop'k intom, in Musecknesset, a post-town and township of Merrimac co., about 6 m. west by south of Concord. Pop. (1890) 1,817.

Hop'k intom, in New York, a post-town and township of Merrimac co., about 6 m. west by south of Concord. Pop. (1890) 1,817.

Hop'k intom, in New York, a post-town and township of St. Lawrence co., about 35 m. southwest of Providence. Pop. (1897) about 2,860.

Hop'kintom, in Rhode Island, a post-town and township of Washington co., about 35 m. southwest of Providence. Pop. (1897) about 2,860.

Hop'co-ast. (-5st.) n. In some English countries, the mane given to a kiln for drying hops.

Hop-co'-my-thumb, n. ["Hop over my thumb."] A vulgar colloquialism for a dwarf or diminutive person.

Hoppony ville, in Pennsylvania, a post-office of Montgomery co.

Hop'pen ville, in Pennsylvania, a post-office of Mont

Hep'p er, n. Or who hops, leaps, jumps on one leg

or capers.
(Mach.) A wooden trough or funnel, through which grain passes into a mill to be ground: so called from its nopping or leaping motion. — A basket or utensil in which seed-corn is carried for sowing.

which seed-corn is carried for sowing.

(Games.) See Hor-scorch.

Mep/per-boy, n. (Mach.) A kind of rake, moving circularly, and used for spreading meal or flour for drying in mills, while at the same time it pushes it towards an opening in the centre, through which it falls.

Hep/pet, n. A hand-basket.—A vessel used by Cornish miners to measure ore in. (Eng.)—An English provincialism for a buly at nurse or in arms.

Hep/-picker, n. One who picks or gathers hops.

Hop'ping, s. A leaping; a springing on one leg; a capering.

—A meeting or assembly for dancing.

—A picking or gathering of hope; as, the hopping season.

Hop'ple, v. a. To fasten or fetter the legs of an unruly Hop'ple, v. a. To fa

horse. — See Hobble.

-n. pl. A fetter or shackle for hitching horses' feet to

—n. pi. A fetter or shackle for hitching horses feet together.
Hop\*-pole, n. (Agric.) A pole or upright set annually in the ground at the roots of hop-plants for their stems to twine around. When a hop-plantation is first made, as the plants are weak, the poles are not required to be more than 5 or 6 feet in length, but in the third or fourth year they require to be 10 or 12 feet in length. Any kind of young trees or saplings may be used as hop-poles; but the most durable are those of the oak, the sab. the sweet-chestnut, and the larch. the ash, the sweet-chestnut, and the larch.

Hop River, in Connecticut, enters the Willimantic River from Tolland co.

Hop'secetch, Hop'per, n. (Games.) A childish diversion, in which a stone is pushed forward by the foot of the player from one division to another of a square figure delineated or soutched upon the ground.

Hop'-yard, n. The stalk of the hop.

Hop'-yard, n. See Hor-garden.

Ho'guard, n. See Hor-garden.

Ho'guard, n. Makington, a post-town of Chelalis co.

Pop. (1897) about 1,500.

Hoquasim, in Washington, a post-town of Chemans of Pop. (1877) about 1,500.

Hoquium River, in Washington, enters Gray's Harbor in Chehalis co.

Hop, in Arabia Petrea, a mountain of a conical form in the range of mount Selr, on the east side of the Arabab, or great valley running from the Dead Sea to the Elanitic Gulf. It is an irregularly truncated cone, with three rugged poaks, overlooking a wilderness of heights, cliffs, ravines, and deserts. On this mountain Aaron died, alone with his brother and son, (Num. xx. 22-29; xxxiii.38.) It is still called Jabel Neby Harboon, "mount of the prophet Aaron;" and on its summit stands a Mohammedan tomb of Aaron (Fig. 1310), on the site of a

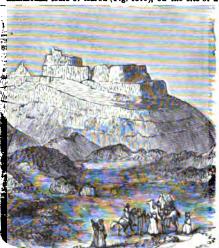


Fig. 1310. - MOUNT HOR.

still more ancient structure, and marking perhaps the

still more ancient structure, and marking perhaps the place of his burial.

Her'ace, Quintus Horatius Flaccus, a Roman poet, s. near Venusia (now Venosa), a town of 8. Italy, on the confines of Apulia and Lucanis, s. c. 65. Ills father, although following the calling of a tax-gatherer, was a man of elevated and liberal sentiments, and took the greatest pains in providing for his son's education. At the age of 18 years he went to Athens to complete his studies; and while there, Marcus Brutus pussing through the city on his way to Macedonia, Horace, accompanied by other Roman youths, Joined the army; became milithe city on his way to Macedonia, Horace, accompanied by other Roman youths, joined the army; became military tribune; fought in the last battle for the freedom of Rome at Philippi, and saved himself by flight. Though he saved his life, he forfeited his estate, and was reduced to great want. till Virgil introduced him to Macenas, through whose interest he recovered his patricular. mony. Augustus now became his friend, and offered to make him his secretary, which Horace declined. When Mescenas was sent to Brundusium to conclude a treaty between Augustus and Anthony he took with him Hor-ace, Virgil, and other literary friends; and, not long after, he presented Horace with the Sabine villa; to after, he presented Horace with the Salvine villa; to which, having witnessed such striking examples of the instability of fortune, he withdrew from the tumult of Rome, preferring retirement to a more brilliant life. His Odes are models of that kind of composition, and his Epistles and Satires abound with acute and vivacious observations on life and manners; while his Ars Protica, so often quoted, presents, under the form of a letter to the Pisos, but with graceful precision, the difficulties of poetical composition, and the principles which should guide the poet in his work. Want of space prevents us from dwelling on the peculiar merits of a classical poet; but we may say with a competent authority, that "the easy, agreeable manner in which he philosophizes without appearing to do it, the salt with which he seasons his thoughts, and the delicacy and ease with which he expresses himself, afford the most agreeable entertainment. His descriptions are still applicable and inter-

ment. His descriptions are still applicable and interesting, and the poet will therefore ever remain the favorite of those whose morality does not exclude the refinements of life." Horace died suddenly, in the year of Rome 746, and 8 s. o. orai.] (Myt.) Divinities regarded in two points of view—as the goddesses of the seasons, and of the hours of the day. Their duty was to hold the gates of heaven, which they opened to send forth the chariot of the sun in the morning, and receive it again in the evening. No classical poet has described them with greater beauty than Shelley, in his Prometheus Unbound. These goddesses are often depicted as forming the train of Aphrodité or Venus.

Ho'real, a. [Lat. horalis, from hora, an hour.] Belating or belonging to an hour or hours; as, "the horal orbit."—Prior.

orbit."—1710r.

Ho'rary, a. [Lat. horarius, from hora.] Pertaining to an hour; noting the hours; as, a." horary inspection."

Buller.—Continuing an hour; hourly; happening once an hour.

an hour.

H. motion. (Astron.) The apparent motion of a celestial body in an hour. The apparent horary motion of the heavenly bodies in their diurnal revolution is 15°; for as the whole circle is completed in 24 hours, the twenty-fourth part of it, or 15°, must be passed over

the twenty-fourth part of it, or 15°, must be passed over in one hour.

Horatiam, (ho-rā'shan,) a. Relating, pertaining, or having reference to the Latin poet Horace; after the manner or style of the writings of Horace.

Hora'tii amd Curia'tii. (Rom. Hist.) The Albans having invaded Rome B. c. 670, it was resolved to decide the contest by a lattle between three champions on each side. Three twin brothers having been found in both armies, the Romans named the Horatii, and the Albans the Curiatii, the issue of the struggle was intrusted to them, and the Curiatii having been vanquished in the fight which followed, Alba was forthwith united to Rome. united to Rome

united to Rome.

Hora'tio, in Ohio, a post-office of Darke co.

Hora'tius Cocles. See Cucles.

Horasitas, (or-ka-sec'ias,) a town of Mexico, abt. 70 m. S. of Nuevo Santander.

Hord, in Illinois, a post-office of Clay co.

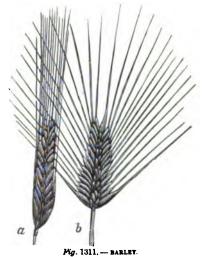
Horde, n. [Du. and Ger. horde; Tartar. horda; A. S. heard; Goth. hairda. See Herd.] A herd; a tribe or clau; especially, a company of wandering people dwelling in tents or wagons, and pursuing a migratory course of existence from place to place; as, a horde of barbarians. barians.

" Martial hords on hords with dreadful sweep. Hor'delme, n. [From Lat. hordesm, barley.] (Chem.)
A modification of starch, constituting about 55 per cent.
of barley meal.

of barley meal.

Horde'olum, n. [Lat. hordeolus.] (Med.) A small tumor on the cyclid, somewhat resembling a larley-corn; it is a little boil projecting from the edge of the cyclid, and is commonly called a stye.

Hor'deum, n. [Lat.] (Bot.) The Barley, a genus of plants, order Graminacez. The genus is distinguished by spiked inflorescence, three spikelets being always situated upon each tooth of the rachie, of which sometimes only the middle one is fertile, and sometimes all the three so that in the former case the fruit-leaving so that in the former case the fruit-bearing the three the three, so that in the former case the fruit-bearing spike is two-rowed, and in the latter case, six-rowed; the glumes are two, containing a single flore; the palese two, the outer one awned; and the seed is surrounded by the palese. The species of this genus are almost all annual, although some varieties of barley are sown in the end of autumn, and the cultivation of them extends over the winter. B. is mentioned in the books of Moses and other books of the Old Testament, also by the Grask and Roman writers, and here been also by the Greek and Roman writers, and has been



a, two-rowed barley; b, sprat or brattledore barley.

extensively cultivated from remote antiquity. made from it was known to the Greeks, the Egyptians, and the ancient Germans. The cultivation of it appears to have extended from Italy northwards in Europe, but

()()*U* 

at is better adapted than any other grain to the most northern regions, some of its varieties being cultivated with advantage where the climate is too cold, or the summer too short, for any other cereal crops; and it is deemed probable that its native country is northern or Central Asia. It is capable, however, of being cultivated in very warm climates, and extends over a wider climate range than any of the other grains. B. seal is used for bread in some places, but it is more generally converted into malt for the making of beer (see Brighton), or merely deprived of its outer skin, and so used as an article of food. B. intended for brewing is first subjected to the process of scalling, by which it is converted into Malt (q. v.) B. simply deprived of the heak (palez) in a mill is called Pst B. or Scotch Barley.—What is sometimes called Pulent B., is a farina obtained by grinding pear B., and differs from B. seal in being quite free from a degree of scridity which the latter derives from the integuments of the seed. It is doubtiul if this grain is produced by more than one species, or whether what have been described as distinct species by botanists are not really mere varieties, the result of long cultivation. H. vulgare is usually distinguished as laving the grains disposed in four rows; H. hexastichon, as having them in six rows; and H. distichon, as having the min six rows; and H. distichon, as having the min six rows; and H. distichon, and only the upper part four-rowed; and in rich soils, a tendency to resume the six-rowed form is otherwise manifest. Nor are the kinds known as Nuked Barley, in which the seed separates readily from the pales, to be looked upon as more distinct. The four-rowed or six-rowed arrieties are generally coarser, but more productive than the two-rowed; and some of them, often called Bran, or Biog, are regarded as most suitable for exposed situations and inferior soils. Of the transmet R. there are meany varieties of which the more productive than the two-rowed; and some of them, often called Bran, or Biog, are regarded as most suitable for exposed situations and inferior soils. Of the two-rowed B. there are many varieties, of which the two-rowed B. there are many varieties, of which the Common B., the Italian B, and the Chevalier B. are among the most esteemed.—The Sprat or Brattledore B. (H. seccritors of many botanists) is also two-rowed, but is distinguished by the grains standing out from the spike, their awas spreading very widely. It is sometimes called German Rice, as it swells by bolling in the way that rice does, and for some purposes forms a good substitute for it. It is much esteemed in Germany, and succeeds well in the Alps at an elevation of 3,360 feet. The grains of Barley, when husked, form what is known as pearl barley, used in soups and for invalids. Hore hound, Hoar hound, n. [A.S. harahsse— Ho'reb.

HOPE'NOUND, HORP'NOUND, n. [A.S. harahune-har, white, and hune, from Goth. hunds, a dog.] (Bot. See MARRUBIUM.

Recurrent Horem, in Ohio, a village of Brown co., about 40 m. E. of Cincinnati.

Hor'leon, in Minumala, a post-office of Martin co.

Hor'leon, in New York, a post-village and township of Warren co., about 18 m. N. of Caldwell. Surface,

Horicon, in Minmenta, a post-office of Martin co. Horicon, in New York, a post-village and township of Warren co., about 18 m. N. of Caldwell. Surface, mountainous.

Horicon, in Wisconsin, a post-village of Dodge co., about 40 m. N.E. of Madison.

Horicon (Lake,) in New York. See George, (Lake.) in New York. See George, (Lake.)

purposes. Observations on land are frequently taken by the aid of what is termed an artificial H, which consists of the level surface of a trough of mercury, which is perallel to the plane of the horizon, and in which the image of the heavenly body is reflected.

Herison'tal, a. Pertaining or relating to the horizon; near the horizon. — Parallel to the horizon; on a level, as indicated by the surface of water at rest; as, an horizontal line. — Lying in a plane of the horizon; measured with a plane of the horizon; as, horizontal distance.

Herisom'tally, a. In a direction parallel to the horizon; in the plane of the horizon; on a level, as indicated by the surface of water at rest.

Horizontal'ity, n. [Sp. horizontalidad.] The state of being horizontal.

BOFINGMENTALLY, N. 199. Northendatada.] The state of being horizontal.

Horm, n. [A.S., Ger., Dan., and Swed. Aorn; W. corn; Lat. corns; Ar. garama; Ethiopic kárn.] A hard substance growing on the heads of certain animals, and particularly on cloven-footed quadrupeds, naually projecting to some length, and terminating in a point. (See below, & Manuf.)

Something resembling a horn, or shaped like a horn; as:—(1.) (Mus.) A wind-instrument, made originally of horn, but now of metal; a trumpet; as, a max.horn, a bugle-horn, a Swiss-horn, &c. Bee Bugle, Franch Horn, &c.—(2.) A drinking-cup; a beaker; — originally made of horn.—(3.) (Fine Arts.) See Corntooria.—(4.) A flask or vessel for holding gunpowder.—(5.) A cusp or extremity of the moon, when it is waxing or waning, and forming a cresceut.—(6.) The feeder of a smail, insect, &c. "The tender horns of cockied smails." (Maks.)—(7.) Any pointed excrescence or projecting limb; as,—(7.) Any pointed excrescence or projecting limb; as, sect, &c. "The tender horns of cockled anails." (Shaks.)—(7.) Any pointed excressors or projecting limb; as, the horn of a beetle, the horn of a flower, the horn of an altar, &c.—(8.) (Mil.) The curvature of the wing of a body of troops drawn up in the form of a cressent.
-The substance which forms the composition of horns in their various kinds; as, a horn book, a horn cough, a horn spoon.—The emblematic antiers of a cornuted or cuckolded bushead.

horn spoon. — The ecuckolded husband.

"Thicker than a suckoid's horn."-Shah

"Thicker than a suchoid's horn."—Stake.

(Script.) A symbol of might, strength, power, exaltation, &c. — To draw in the horns, to pull in the horns, to repress one's ardor; to withdraw from assumption or pretension; to retract arrogant or high-flown words;—derived from the practice of snails, &c., taking in their feelers when alarmed. — To raise or lift the horns. (Script.) To become self-sufficient; to raise to self-exaltation, &c. — To take a horn, to take a drink of liquor from a horn; as, to take a horn, to take a drink of liquor from a horn; as, to take a horn no fule.

(Mansf.) The substance called horn may be divided into two distinct classes. First, the branched, bouy horns of the ox genus and other kindred genera. The first of these kinds of H is applied to the same purposes as hone and ivory, and the manufacture is almost first of these kinds of H. is applied to the same purposes as bone and ivory, and the manufacture is almost similar. The other kind of H, found in the ox, antelope, goat, and sheep, consists of a number of conical sheaths inserted one into another, the innermost resting upon the vascular membrane covering the bony core. sheaths inserted one into another, the innermost resting upon the vascular membrane covering the bony core. The tip is very deuse, and the layers of which it is composed are scarcely distinguishable. This kind of H. appears to consist of coagulated albumen; and there is a regular connection between horns, nalls, claws, hoofs, scales, hair, feathers, and even skim. The horns of oxen are the principal ones used for manufacturing purposes; the horns of bulls and cows being preferred to those of bullocks, which are thin and of a coarse texture. The horns of goats and sheep are whiter and more transparent than those of any other animals. In H. manufacture, the first process necessary is to remove the core. This is effected by steeping the H. in water for about a month, when the horny sheath becomes so softened that the core can be readily withdrawn. The cores are not wasted, but are afterwards burnt, forming bone-ash, a substance valuable in making cupels for ascores are not wasted, but are afterwards burnt, forming bone-ash, a substance valuable in making cupels for assaying purposes. They are also used in other ways,—for making glue, stiffening for cloth-dresses, and for manure. The solid tip of the H., after being sawn off, is used for making knife-handles, umbrella-handles, &c. After being divided into thin laminse, the remainder of the H. is used for warding nurseas. The lower part is After being divided into thin laminse, the remainder of the *H* is used for various purposes. The lower part is frequently used for making combs, while the middle is used for making lanterns, &c. To prepare the horn for use, it is softened by means of boiling water, and then usually held in the flame of a fire till it gains the temperature of melting lead, and becomes so soft as to be semi-fluid. While in this state, the slitting is performed by means of a pointed knife resembling a pruning-knife; then, by means of two pairs of pincers, the cylinder, or come of horn, is opened till it is nearly flat. A number of pieces are then exposed to pressure between plates of iron previously heated and greased. The degree of the pressure depends upon the required tween plates of fron previously heated and greased. The degree of the pressure depends upon the required use of the horn. The thin sheets of H. are then scraped with a blunt or wire-edged draw-knife upon a board covered with hide. After being smoothed and brought to the required thinness, they are polished with a woollen rag dipped in charcoal-dust, a little water being woollen rag dipped in charcoal-dust, a little water being added at times After being rubbed with rotten-stone, they are finally polished with H. shavings. When H. is to be converted into combs, the pressure requires to be as slight as possible, lest, by the breaking of the grain, the teeth become liable to split. Horns for combs are roughly cut by a hatchet or saw to the required shape, and then finished by rasping and scraping. Ornamental H. combs, with open work, are largely manufactured in France. Snuff-boxes, combs, and other ornamental articles, are often made by pressing H. ornamental articles, are often made by pressing H. shavings, after reducing them to a soft state by means of heat. Drinking-horns are made by sawing the H. to

the required length, scalding and reasting it over a five, placing it in a conical wooden mould, and bringing it into the required shape by driving a wooden plug firmly into the interior. It is afterwards fixed on a lattice when cold and hard, and turned and polished both on the inside and outside. The bottom, a round flat piece of  $H_{-1}$  is dropped in at the larger end of the cone of  $H_{-2}$  while the latter is warm. At the smaller end of the while the latter is warm. At the smaller end of the vessel is a groove into which the bottom slips, and as the H. contracts in cooling, so the bottom becomes firmly fixed, and the drinking-H. water-tight. The process of dyeing H. of different colors is very easy. It is usually colored of a rich reddish-brown, and spotted so as to imitate tortoise-shell. The whole of the refuse of horn manufacture is valuable. Hoofs and H. cuttings are used for making prussiate of potash and Prussian blue; and the clippings of the comb-maker are used as manure. An artificial H is made from the griatine obtained from bones by muriatic acid, and converting it into a horny substance by tanning.

Horn, v.a. To furnish with horns; to form in the shape of a horn.

To cuckoid; to cornute.

sampe of a norm.

—To cuckold; to cornute.

Horm. (Cape.) See Cape Horm.

Horm-Afvan, a take of Lappmark, in N. Sweden, falling by the river Skelleftes into the Gulf of Bothnis;

Lat. 66° N., Lon. 16° to 18° E. Length, 50 m. by 9 m. of

Lat. 60° N., Lon. 10° to 18° E. Length, 50 m. by 9 m. of mean width.

Horn'beam, n. (Bot.) See Cappinus.

Horn'beam, n. (Bot.) See Buckeid.

Horn'blemde, n. (Ger.) (Min.) A var. of Amphibole, q. v. It is a tough mineral, of black or greenish-black color from the presence of a large percentage of oxide of iron. It enters into the composition of several kinds of rock, as trap, syenite, and hornblende slate; the latter is a tough slate and an excellent material for flagging.

Horn'blende Bock, n. (Geol.) A rock composed principally of hornblende. Granite rock in which the mica is replaced by hornblende is called syenite, q. v. Its color is greenish-black to black.—H. Schiel. A name given to several slaty varieties of hornblende rock.

Hornblen'die, a. Consisting principally of hornblende.

Hornblen'dic Per'phyry, s. (Gol.) See Pos-

PHYRY.

Horn'-blower, s. One who blows upon the horn; a

player on the horn.

Horm'-book, n. The first book of children instructing them in the letters and first radiments of a language: a primer;—so called from its being formerly backed with horn, with a view to its protection from ill-usage, &c.

" He teaches boys the horn-be

"He teaches boys the Aora-book."—Shaks.

—Any rudimentary book; a hand-book; a vade-mecum; a guide-book; a manual; an itinerary.

Horn'brook, in Pennsylvania, a P. O. of Bradford co. Horn'bug, n. (Zoil.) See Lucvning.

Horn'by, a village of Halton co., Upper Canada. abt. 30 m. S.W. of Toronto.

Horn'by, in New York, a post-village and township of Steuben county, about 17 miles south-east of the city of Rath.

of Bath.

Horncastle, (horn/cas-sel.) a town of Lincolnshire, on the Bane, 18 m. E. of Lincoln. Manuf. Leather; and has an extensive trade in corn and wool. Pop. 5,720.

Horn-distemaper, n. (Furriry.) A disease incident to horned cattle, affecting the pith of the horn, which it insensibly wastes, and leaves the horn hollow.

Horned, (hornd.) a. Furnished with horns, or protections resembling horns; as, horned cattle.—Shaped

Horned, (hōrnd.) a. Furnished with horns, or projections resembling horns; as, horned cattle.—Shaped like a creecent, or the new moon.

Horn'ed-hog, n. (Zoll.) See Babraousa.

Horn'ed-mes, n. State or condition of being horned.

Horned-powl, n. (Zoll.) See Horn-own.

Horned-powl, n. (Zoll.) See Horn-own.

Horned-powl, n. (Zoll.) See Horn-rour.

Horned-tond, Horned-rood, n. A lizard of the genus Phrymasoma, family Iguanda,—so called from somewhat resembling a frog in its general aspect. All the species are in N. America, and characterized by a more or less circular or oval body, flattened and cov-



Fig. 1812. — HOBNED-TOAD, (Phrynosoma cornutum.)

ered with tuberculated scales; head short triangular. ered with tuberculated scales; head short, triangular, with prominent vertex, and sharp spines or roughness; neck very short, and with transverse folds underneath; tail short and conical. The species are found in the S. W. States, California, Oregon, &c. The best known species is P. cornulum (Fig. 1312), about 4½ inches long; the general color above is a dusky gray, with black bars and markings; below, silvery white. It passes the winter in a state of lethargy in holes dug by various roderts. dents.

Morned-viper, n. (Zoll.) See CREASTE.

Hor'mellsville, in New York, a city and railroad center of Steuben co., on the Eric and Cent. N. Y. & W. R. Rs., 60 m. S. of Rochester. Pop. (1897) about 11,100.

Hor'merstown, in New Jersey, a post-village of Monmouth co., about 16 m. S. E. of Trenton.

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Horn'er, n. A worker or dealer in horn.—One who winds a horn; a horn-player.—One who plants horns on a cuckold's brows.—In Scotland, a term for the sand-eel.

Hor'met, n. [A. S. hyrnet, hyrnet; Ger. horniss, from horn, a horn.] (Zoid.) See VENPALS.

Horn'-foot, a. Hoofed; possessing a hoof; as, "horn-foot horses." — Hakewell.

Horn'head, a remonstance on the Naccest of Donoral

Horn head, a promontory on the N. coast of Donegal

Horn'head, a promontory on the N. coast of Donegal, Ireland.

Horn'ify, v. a. [Eng. horn, and Lat. facere, to make.] To horn; to supply with horns. (x.)

Horn'ing, n. Aspect of the moon when increasing, or assuming the creecent form.

(Scot Law.) A species of diligence (i. e. process) against a debtor. They are writs in the sovereign's name, proceeding on the warrant of a decree of the Court of Session, or of the magistracy of boroughs, and of various other inferior authorities; but in these cases a warrant of the Court of Session must also be obtained. They direct the debt to be paid within a limited number of days, (according to the nature of the debt.) In default of such payment the debtor incurs the charge of rebellion, and is thereupon liable to caption or arrest. (Termed, also, Letters of Horning.)

Horn'ish. a. Having the characteristics of horn; like horn; hard.

Horn'ish., (horneeloce.) in California, a post-village of Mariposa co., about 18 m. N.N.W. of Mariposa.

Horn'icad., n. A term sometimes given to chloride of lead.

of lead,

Horn'less, a. Without horns; dispossessed of horns.

Horn'lest, s. A little horn.

Horn'-mad, a. Mad as a man who has been cuckolded; — hence, stark mad; frantic; raving.

"Mr. Garrick . . . the town are horn-mad after."-Gray

Horn'-maker, n. One who makes a cuckold of an other man; a cornutor.

other man; a cornutor.

Horn-manganese, n. (Min.) A variety of Rhodonite called Phoricitz, q. v.

Horn-mercury, n. (Min.) See Horn-quicksilver.

Hornes Islands, (or/noce,) a small group of islands in the Rio-de-la-Plata, S. America, about 31 m N.E. of Buenos Ayres.

Horn'owl, Horned-owl, n. (Zoll.) See Buso.
Horn'pipe, n. [W.pib-gorn.] (Max.) An old Welsh
musical instrument, consisting of a wooden tube with
holes, and a reed and a horn at each end. — A lively air or tune, of triple time, played originally on the above named instrument.

(Dancing.) The name of a well-known dance, for the cilful performance of which British sailors have long skilful performat been celebrated.

Horn'-poppy, (also Horned-Poppy,) m. (Bot.) See

GLAUCIUM.

Horn-pout, or Horned Pour, n. (Z : 7.) See SHURDE.

Horn-pout, n. (Med.) See VARIC.LLA.

Horn-quicksilver, n. (Min.) The native subchloride of mercury, or Calomei, q. v. It occurs in the
mines of Idria, in Carniola, and Almaden, in Spain.

Horn's Mills, in New Hampshire, a post-office of
Carnille Carniola.

Carroll co

Horn'-silver, n. (Min.) Chloride of silver, AgCl.
A transparent, waxy-looking mineral, of a gray, grayishgreen, or whitish color. It occurs with native silver in the green, or whitish color. It occurs with native silver in the mines of Mexico, Peru, and Chili, also in the mines of Idaho, Nevaila, and Arizona. Sp. gr. 5:55. Comp. Chlorine 24-7, silver 75:3. Heated with the blow-pipe on charcoal, it yields metallic silver; also placed on zinc and moistened with water, it is reduced to silver. A variety containing a large percentage of alumina is found at Andreasberg, which the Germans call butter-milk ore.

\*\*Comparison of Min.\*\* A variety of quartz resem-

found at Andreasberg, which the Germans call buttermilk ore.

Hofm'stome, n. (Min.) A variety of quartz resembling flint, but more brittle.

Hofm'stown, in Virginia, a post-village of Accomac
co., about 26 m. N.E. of Accomac Court-House.

Hoff'work, n. (Fortif.) A work having one front
only, thrown out beyond the glacis of a fortress, with
a view -1. To strengthen a weak salient in the general
outline; 2. To occupy a plateau in advance of the place,
or to protect buildings, the including of which in the
original enceinte would have extended it to an inconvenient degree; 3. To occupy
a tongue of land protected on
its sides; 4. To bar a defile; 5.
To cover the head of a bridge;
6. To occupy rising ground,
the possession of which would
render the enemy more than
necessarily dangerous. The
front of a horn-work consists
of two demi-bastions connect-

of two demi-bastions connected by a curtain, and usually defended in front, as in the A, HORN-WORK, COVERING

defended in front, as in the A, HORN-WORK, COVERING fortress itself, by tenalile, ravelin, and covert-way. The flanks, protected by ditches, run straight upon the ravelin, beation, or curtain of the main defences, so that the ditch may be swept by the fire of the latter. The flanks should not be too long for easy musketry range. Horn'wort, n. (Bot.) Sec Craropritalack.

Horn'wort, n. (Bot.) Sec Craropritalack.

Horn'y, a. Consisting of horn or horns.—Made of horn, or some substance resembling horn; as, a horny beak.

"Rough are her ears, and broad her horny feet."—Dryden.

Hard: callous: indurate.

-Hard; callous; indurate. Tyrrheus . . . clenched a hatchet in his horny Jet."-Dryden.

One who Herog'raphy, a. [Gr. hōra, hour, and graphō, I write.]
thorns on The art of drawing hour-lines, or of constructing dials.— An account of the hours.

An account of the nours.

Horologe, (horologi), n. [Lat. horologium; Gr. horologium; Fr. horloge.] A time-piece, hour-glass, or any instrument which indicates the time of day.

Instrument which indicates the time of day.
Horologer, a. A maker of, or dealer in, clocks, watches, time-pieces, &c.
Horological, a. [Gr. hörologikos.] Pertaining or relating to a horologe, or to horology.
Horologiograph'ie, a. Belonging to the art of

Horologiograph'ie, a. Belonging to the art of dialling.

Horologiog'raphy, n. [Gr. hörologion, and graphein, to describe.] An account of time keeping instruments.—Horography.

Horologium, n. [Lat, an horologe.] (Astron.) A constellation of the southern hemisphere, formed by Lacaille, situated between Canopus and Eridanus, and formed extents of stars of the bland of the magnitudes.

ments.—Horography.

Horol'ogista, n. A person versed in horology.

Horol'ogista, n. A person versed in horology.

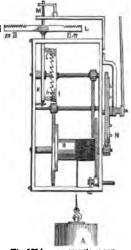
Horol'ogistan, n. A person versed in horology.

Horol'ogistan for the southern hemisphere, formed by lacalile, situated between Canopus and Erdanus, and formed entirely of stars of the 5th and 5th magnitudes.

Horol'ogy, n. [Gr. hôra, any limited time or period—an hour, and logos, treatise.] That branch of science which treats of the principles and construction of machines for measuring and indicating portions of time. According to Locke, it is "the consideration of the duration, as set out by certain periods and marked by certain measures or spochs." According to Aristotle, "our conception of time originates in that of motion, and particularly in those regular and equable motions carried on in the heavens, the parts of which, from their perfect similarity to each other, are correct measures of the continuous and successive quantity called first, with which they are conceived to co-stat. Time, therefore, may be said to be in the perceived number of successive movements." Undoubtedly the motions of the continuous and successive quantity called first, with which they are conceived to co-stat. Time, therefore, may be said to be in the perceived number of successive movements." Undoubtedly the motions of the conductions, we must call to our aid certain mathematically adjusted machines, the knowledge of whose construction is regulated by the science of H. The "father of history" ascribes the invention of the carliest time-measurers to the Babylonians. Pliny claims the honor for Anaximenes: while Phavorinus wishes us to accept Anaximander as the real inventor. At any rate, the first horologis of which we find mention are the Polos, or Heristory of the state of th watch provided with a mechanical contrivance, by means of which it can be made, at any time, to repeat the hours; a chronometer is a watch of the most superior character, or one that may be used for astronomical or maritime purposes. It is simust an impossibility to state who was the individual that invented either a clock or a watch; and a great deal of the obscurity attaching to the early history of clocks is due to the fact that formerly the term horologium was applied to a sun-dial or

a clock indiscriminately, thereby rendering it a task of the utmost difficulty to state at what particular period it came to mean a clock. As far back as the close of the listin or the beginning of the l4th century, striking-clocks were known in Italy. In 1288, as we are told by Coke, a stone clock-tower was erected opposite Westminster Hall, and in it was placed a clock, the cost of which was defrayed out of a fine of 800 marks imposed upon a corrupt chief-justice of the Queen's Bench. About 1364, a German horologer, Henry de Wick, de Vick, de Wyk, or de Wyck, set up a clock in the tower of the place of Charles V. of France. This clock (Fig. 1314) was probably the basis of all the principal time-keepers in use in the 16th cent. It was very simple; and without entering into any minute explanation, it may be readtime coasis of all the principal time-keepers in use in the 16th cent. It was very simple; and without entering into any minute explanation, it may be readily understood, that, as the weight A tends to uncoil the cord and set in motion the cylinder B round its axis, the motion will be successively communicated to the various toothed wheels in the figure. and 6-

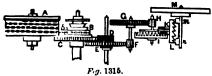
the figure, and fi-nally to the crownwheel, or escape-ment-wheel, I; the teeth of which so act on the two small levers or pallets, i h, pro-jecting from, and forming part of the suspended up-right animals or right spindle or vertical axis, KM, on which is fixed the regulator or balance, L I. that an alterating or vibratory, instead of a circular, mo-tion of the bal-ance itself is the ance itself is the result. The hands of the clock are attached to the wheel N, also set in motion by the cylinder B. Now, unless there were some check upon the motion, it is manifest that the



manifest that the heavy weight A would go rapidly to the ground, causing the wheels to rotate, the balance to vibrate, and the hands to go round with increasing velocity. In order to prevent this rapid unwinding of the clock-work, and adjust it to the more deliberate measurement of time, the balance is, in De Wick's clock, loaded with two weights, m, m; and the farther these are removed from the axis or spindle. KM, the more heavily they will resist and counteract the escapement of the levers, and the rapidity of the rotation of the escapement-wheel, till the clock be brought to go neither too quick nor too slow.—In a letter written by Ambrosius Camaldelensis to Nicholaus of Florence, it is stated that clocks were by no means uncommon in private houses on the continent towards the close of the 1st century. Reviewing all the evidence we have before us, the conclusion may be drawn that the name of the inventor of a clock is unknown, that an horological machine driven by a weight is of more ancient date than listh century. Reviswing all the evidence we have before us, the conclusion may be drawn that the name of the inventor of a clock is unknown, that an horological machine driven by a weight is of more ancient date than is commonly allowed; that the clock of Henry de Wick, which, on account of its having a balance for a regulator, marked the first great era in the art of horology, and was not the invention of one man, but the result of a series of inventions made at different times by different persons. According to M. Ferdinand Berthoud, the progression of the successive improvements in horology was as follows: 1. Toothed wheel-work was known in ancient times, and particularly to Archimedes, whose instrument was provided with a motive power, but had no regulating or controlling mechanism. 2. The weight applied as a motor had, at first, a fly, most probably similar to that of a kitchen-jack. 3. The ratchet-wheel and click for winding up the weight, without detaching the teeth of the great wheel. 4. The regulation of the fly depending upon the state of the air, it was abandoned, and a balance substituted. 5. An escapement-wheel next became indispensable, as constituting, with the balance, a more regular check than the fly, upon the tendency which a falling weight had to accelerate its velocity. 6. The application of a dial-plate and hands to indicate the hours, was a consequence of the regularity introduced into the going part. 7. The striking portion, to proclaim at a distance, without the aid of a watcher, the hour that was indicated; and this was followed by the alarm. 8. The reduction and accommodition of all this bulky machinery to a compact and portable size, as in watches. — The date at which the size of clocks was so far reduced as to render them portable, is uncertain; it must, however, have been anterior to 1944; for in this latter year the corporation of master clock-makers at Paris procured from Francis I. a statute precluding all but master of the manapering." substituted for a weight, as the moving p

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third are in clock-work was the application of the pendulum. Gailleo was the first who remarked, or at least the first who formally announced, in his work on mechanics and motions, which was published in 1639, the isochronal property of could that he pretended that he actually applied a pendulum to a clock for the purposes of observing eclipses and determining londitudes. There is, however, no absolute proof of this fact. Sanctorius, in his Commentary on Ariconna, describes an instrument to which he had applied a pendulum in 1612. Richard Harris is said to have constructed, in 1611, a pendulum clock in London for the church of St. Paul, Covent Garden. Vincenzo Gaillei, a son of Gailleo, is stated, on the authority of the Academy del Comento, to have applied the pendulum in 1649. It was applied by Huygens in 1656; and by Hooke, for whom the invention has been claimed, about 1670. But to whomsover the merit may belong for having first made the application, Huygens is unquestionably the first who accurately explained the theory of the pendulum; and hence, perhaps, the invention of the pendulum clock has been usually ascribed to him. Huygens demonstrated that the vibrations in circular arcs are not independent of the length of the arc, and that in order to obtain perfect isochronism, the ball of the pendulum must move in the arc of a cycloid; and ingeniously applying a property of the cycloid, of which he was the discoverer, namely that is involute is a curve similar to Itself, he procured the requisite motion by causing the pendulum to vibrate between cycloidal checks about which the upper and fiexble part of the suspending rod wrapped itself in its motion. But it was found that no practical advantage could be obtained from this beautiful countryance; and, in fact, it was soon rendered unnocessary by the invention of the anchor oscapement, which gives the means of rendering the arcs of vibration very small, in which case the error depending on the length of the sprin appring to the balance. The mercurial compensat this place, as our limits will not permit them to be given with that minuteness of detail which is indispensable in order to convey a clear idea of their action. The most important is the \*scapement\* (or scapement\*), or that part of the mechanism by which the original rotatory motion is converted into a reciprocating motion, and gives impetus to the pendulum or balance. Some other parts are also of primary importance: as the \*maintaining power,\* a contrivance by means of which the motion is maintained, or the machine kept going, while the weight or spring is being wound up; the fuse, by which in watches and spring-clocks the force acting on the wheelwork is reudered equal in all states of the tension of the spring. The general arrangement of the wheelwork of a clock or watch may be understood from the following description. Fig. 1315 represents the movement of a common vertical watch, the frame plates being omitted, and the dial being supposed to be turned downwards. A is the \*barrel\* containing the spring which produces the



motion. B is the fuser connected with the barrel by the chain b. C is the fuser-wheel called also the first or great whiel, which turns with the fusee, and works into the pinion D, called the centre-wheel pinion: this pinion, with the centre wheel or second wheel E turns once in an hour. The centre wheel E works into the third-wheel

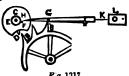
pinion F; and on the same arbor is G, the third wheel, which drives the fourth or centrate-wheel pinion H, and along with it the centrate-wheel I. The teeth of this wheel are placed at right angles to its plane, and act in the pinion K, called the balance-wheel pinion, L being the balance-wheel, or scape-wheel, or crown-wheel, attached to the same arbor. The balance-wheel acts on the two pallets m and n attached to the verge or arbor of the balance M; and these being placed at a distance from each other equal to the diameter of the balance-wheel, and in different planes, receive alternately from the scape-wheel an impetus in opposite directions which keeps up the vibratory motion of the balance.—Numerous modifications of the escapement have been proposed, and some of them carried successfully into effect; but for their description we must refer to the works in which the subject is technically treated. There are two, however, which, by reason of the greater ingenuity displayed in their contrivance, and their almost universal application to the best kinds of pocket-watches, require particular notice. These are the duplex and the detached escapement, the latter being that which is used in modern chronometers. The duplex (Fig. 1316) closely approaches the chronometer. A is the escape-wheel, the teeth of which fall upon the roller E (made of ruby), fitted upon the axis of the balance C, and which has a notch, F, cut through it vertically. When the balance returns towards the left, the point B of the teeth of the wheel falls into the notch F, and meets with a very small recoil from the balance, in what may be termed the returning vibration. This goes so far as to make the tootch for a little while to have the notch at the side opposite to that by which it came in. The balance on returning, in the course of the vibration, receives impulse from the wheel, pinion F; and on the same arbor is G, the third wheel,



the next tooth of repose
falls, and rests on the DUPLER ESCAPEMENT.

E; and so on. The Detached, or chromoeder escapement
(Fig. 1317), was invented in France about 1780. A is the
escape-wheel; B the escape-wheel teeth; C the roller,
let on the verge or axis of the balance. This roller is
a circle of polished steel, with a notch cut out of it, into
one side of which, D, a flat polished piece of ruby is inserted for the acting part. Below this steel roller, carried on the same

ried on the acting ried on the same verge, is a smaller roller of steel, E, called the discharging pallet, having a sapphire fixed on its



called the discharging pallet, having a spphire fixed on its outer edge. F is a sien der spring which is screwed at I to the stouter one, having its fixture at the stud L, and polished away very thin at K, in order that it may bend readily, so as to cause very little resistance to the balance while forcing it on one side. G is a projecting piece carrying an upright pin made of ruby, against which the wheel-tooth B rests. At B is a small screw against which the spring LKG strikes, and thus prevents it from springing too far back. The action of these parts is as follows:—When at rest, the circular edge of C is just clear of the two teeth of the wheel B; but yet, if set in motion, the teeth could not pass both F and G whilst they remain quiescent. G rests against the screw at B, and the tooth resting against the locking juilet G, the ecapement-wheel cannot turn. To set the chronometer going, it is necessary to give it a rotary motion, which sets the balance in action. This causes the lower piece on the verge (called the lifting-piece or discharging-pallet) to strike against the end of the spring F, which, from its overlapping the curved end of the prolonged spring K G, pushes it back, and thus releases the pin or locking-stone G from before the tooth of the wheel; that is, it unlocks the escapement-wheel, which is immediately set in motion on the action of the mainspring. The same vibration given to islance and verge brings the ruby pallet D round before the tooth B, which strikes against it and carries it round. The recoil of the spring F has now brought the locking-pallet G to earch the tooth B, the escapement-wheel being again stopped. But the stroke of the tooth from the face of the ruby pallet D has carried the laslance on in its vibration till it is counteracted by the tension of the balance-spring, which brings it back again in this return vibration; the lifting pallet E, by its curved back, pushes the slender spring F before it, and passes it without affecting K G, which is still enought round, and the bal

process being repeated. In this escapement, consquently, part of one vibration in one direction, and the whole of that in another, is performed without the balance being in any way under the influence of the maintaining power; while the parts are so contrived that the isingle given by the tooth of the escape-wheri affects very minutely the natural motion of the balance. It can be easily understood that the litting-pallet E can pass in one direction the spring F without scoving K and G; while in the other it carries F, and therefore G with it.—Electrical clocks are now more or less employed, but their introduction has not been as universal as at one time anticipated. See ELECTRIC TIME. They are of two kinds—electrical dials and electrical clocks at some other place. An apparatus is also provided for sending a galvanic current through the wire at certain regular intervals of time. By this means the dial-hands are made to leap over a small portion of their compass whenever a current is transmitted through the wire; and the time-valve of the movement is marked by the figures on the dial. An electric clock, however, is one that carries with it its sources of power, and is independent of any wire connected with another place.—For information regarding the watch trade of the United States, see Warches. See also Precuratic AND Ale Clocks.

CLOCKS.

\*\*Morom'eter, n. [Gr. höra, and metron, measure.] An instrument for measuring time by.

\*\*Moromet'rical, a. [Fr. horometrique.] Pertaining or relating to horometry, or the measurement of intervals or divisions of time.

or relating to horometry, or the measurement of intervals or divisions of time.

Horométry, n. The art or practice of measuring time.

Horométry, n. The art or practice of measuring time.

Horoscope, n. [Gr. hôra, limit, and ôpter, a baladder.]

(Optics.) The surface of sing' vision corresponding to any given binocular parallax is thus named.

Horoscope, n. [Fr.; Gr. hôroskops—hôra, and skapo, to view or observe.] A diligent observation of the exact hour or time of a person's birth.

(Astrol.) A figure or scneme of the heavens from which to cast nativities; the point of the heavens arising above the exact point of the horison at any given time when a prediction is to be made of a future event.

—A species of planisphere, invented by Jean Padmanus.

—A species of planisphere, invented by Jean Padmanus.

—A species of conspectus of the duration of the days and nights at all places.

Horoscoper, Heroscopist, n. One versed in horoscopy; an astrologer.

Horoscopic, Horoscopiesl, a. Relating or pertaining to horoscopy.

Horoscopist, n. See Horoscopy.

Horoscopist, n. See Horoscopy.

Horoscopy, n. [See Horoscopy.] Aspect of the planets at the time of one's birth.—The pretended art or practice of predicting future events by the disposition of the stare or planets.

Hor'rel, in Pennsylvania, a village of Blair co., located on the Penna R.R.

Hor'rent, a. [Lat. horrens—horreo. See Hornon.]

Bristled; standing erect as bristles: pointing measured.

on the Penna. R.R.

Horrent, a. [Lat. horrens—horreo. See Honnon.]

Bristled: standing erect as bristles; pointing upward.

Horrible, (horrible,) a. [Fr.; Lat. horribita, from horreo.] Exciting, or calculated to excite horror; dread-ful; frightful; fearful; awful; terrific; hideous; horrid; shocking; as, a horrible sight, a horrible catastrophe, a horrible story.

Horriblemena. s. State of heing horrible.

Hor'ribleness, s. State of being horrible; qualities exciting horror; dreadfulness; awfulness; hideousness; fearfulness.

exciting horror; dreadfulness; awitiness; indecounness; fearfulness.

Hor'ribly, adv. In a manner excitive of fear or horror; dreadfully; terribly; hideously; shockingly; aa, he is horribly afraid of ghosts.

Hor'rid, a. [Lat. horriblus. See Horror.] That does or may excite horror; frightful; hideous; dreadful; awful; shocking;—hence, anything highly disgusting, offensive, or disagreeable; as, a horrid crime.—Rough; ragged; shaggy; bristling; prickly.

"Horrid with fern, and intricate with thora."—Dryden.

"Horrid with fern, and intricate with thorn."—Dryslem.

Hor'ridily, adv. In a manner to occasion or excite horror; fearfully; dreadfully; shockingly; as, he was horridly nervous after his deleauch.

Hor'ridinema, a. "The qualities that do or may excite horror; hideousness; dreadfulness; enormity; as, " the horridness of the act." - Hammond.

Horrif'ie, a. [Lat. horrificus. See Horrir.] Exciting horror; causing terror; dreadful; frightful; hideous.

"Jaws horride: "Lat. horror, and facio, to make.] To make horrible; to strike with horror; to shock with terror; as, he horrified her delicate sensibilities in alluding to legs.

terror; ss. he horrified her delicate sensibilities in alluding to lega.

Horripitatiom, n. [Lat. horripilatio.] (Mrd.) General chilliness, preceding fear, and accompanied with
hristling of the hairs over the body.

Horrigor, n. [Fr. horrow; Lat. horrow - horres, to
stand on end, to briatle.] A standing on end or erect,
as hair or bristles; a bristling; roughness; atifiness. (a.)

—An excessive degree of fear, or a painful emotion which
makes a person tremble; terror; a shuddering with
fear; terror, accompanied with hatred.

"A trembling horrow in our souls we find." — Deries.

"A trembling Aorror in our souls we find." -

-That may excite horror, dread, or fear; dreadful thoughts; distressing scenes; dreariness; gloom: pangs of conscience.

"I have supp'd full with A (Mel.) A shuddering or chilliness preceding fear; horripilation. Dunglison. — The horrors, delirium-tremens: mania-a-potu: the blue-devils; — a morbid state of the nervous system. brought on by excessive drinking, or by the babitual use of narcotics, &c.

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Horror-stricken, a. Struck or confounded with

Horror.

Horror.

Rorizy, in S. Carolina, an extreme E. district adjoining N. Carolina on the N.E., and washed by the Atlantic Ocean on the S.E. border; grea, about 960 sq. m. Risers.

Wacamaw, Great and Little Pedes rivers. Surface, low, and in some places marshy: soil, not very fertile. Cap. Conway. Pop. (1890) 19,256.

Horra, a Saxon prince, the brother of Hengist, and one of the founders of the kingdom of Kent. He was killed in the battle at Eaglesford, now Aylesford, 455.

Hors-de-combat, (or-de-kong/ba.) [Fr., out of the battle.] Disabled from fighting; as, our regiment had a fifth of its number placed hors-de-combat.

Horse, n. [A. B. Aors; Fris. hars, hors; O. Ger. Arcs, from Sansk. hrish, to neigh.] (Zoil.) The Equius caballas, an animal of the fam. Equide, a branch of quadrupeds distinguished by a single digit and hoof on each foot. Although, however, the Equide possess but one developed toe, there are on each side of the metacarpus and metatarsus joints two small rudimentary processes which represent lateral toes. The system of the dentition of the family is represented by the following formula:

Incisors 
$$\frac{6}{6}$$
, canines,  $\frac{1-1}{1-1}$ , molars  $\frac{7-7}{6-6}$ ; total 42.

tion of the family is represented by the following formula:

Incisors—, canines,—, molars—; total 42.

Of the three great divisions into which the Equide are separated,—namely, the horse, the ass, the sebra,—the former is the largest, the most docile, the most valuable, and, finally, more fully distributed over the surface of the globe, than any of the others. That the horse existed at a remote date, the researches of geologists afford the most satisfactory evidence; for there is not a portion of Europe, Asia or America in which the fossil remains of this animal have not been discovered, mingled with the bones of the elephant, the hippopotamus, and the deer, as well as the mastodon and other animals which have passed away from the surface of the earth. In most cases these lossils agree with the size of the horse which exists in the present day, though the horse is represented in these fossil remains by more than a dozen species. The first allusion in literature to the horse occurs in the book of Genesis (xxxvi. 24), where it is said that Anah, son of Zibeon, found the mules—the progeny of the ass and the horse—in the wilderness, as he fed the asses of his father. From the remains of Grecian art and writings, we find, also, that the horse was used for chariot-races, and other purposes, about 1460 s. c., from which date it became more and more employed for the use of man. It is questionable whether, in the present day, there exist any real wild horses, as those which are so called have been proved, in the case of America, to have been the descendants of horse let loose by the Spaniards; and those of Asia are but the progeny of horses which have escaped from the haunts of civilization. Both fore and hind legs of the horse have, on the inner side, an oval, horny, wrinkled plate, called a wart, sallender, or chestnut. The canine teeth are wanting in mares. The sense of touch, in general, is extremely delicate; the tongue soft; the upper lip capable of elongation and considerable mobility; and the sense of foste than a wild state are said to be able to scent their enemies at the distance of more than a league. The skin is generally covered with a coat of short hair, smooth in summer, and becoming rough and much more elongated during the winter season. The best of the wild Asiatic horses are those which inhabit the northern elopes of the mountains of the Gaucasus. The principal varieties of these, according to Pallas, are, —first, the "moustachloed" horse, characterised by numerous strong bristles on the upper lip; next, the "woolly horse," a Russian variety, covered with a crisp woolly hair, and common among the Baschkirs; thirdly, a "naked" or hairless horse, which is found among the valleys of Tartary, by the natives of which it is kept always clothed; and, lastly, a variety delineated by Johnston, in which a sort of woolly mane is continued from the neck along the back, right down to the tail, which specimen Pallas asserts that he saw among the Buracti. The wild horses appear to be free from nearly all those diseases and ills which prove such a burden to the domestic breed. They are generally of a pale or grayish-brown color, with brown mane and tail, and a whitish muzzle, which subsides into a black color about the mouth. They are less in size than the domestic horse, and have a larger bead, larger ears, hoofs more contracted, and the mane more erect, while the tail is much shorter. They do not wander beyond the 50th degree of north latitude. They generally move about in droves, headed by a large gray or black stallion, who constitutes himself the leader. On the Pampas of South America they are exceedingly abundant, and the Guachos, a semi-civilized race of men, live among them. Their mode of capturing and breaking-in these horses is very curious. The capitar, or chief, mounted on a powerful steady horse, rides into the coral (a large space inclosed by an impregnable boundary of wooden stakes, into which herds of wild horses are driven by the Indians), and, picking out the animal to be broken in, throws his lasso over h

ground. In an instant a Guacho seats himself on his head, and cuts off the whole of his mane, while another cuts the hair from the end of the tail, in order to show that the animal has once been mounted. They then put a piece of hide in his mouth to serve for a bit, and a that the animal has once been mounted. They then put a piece of hide in his mouth to serve for a bit, and a strong hide halter on his head; the Guacho who is to mount him next arranges his spurs, which are unsually long and sharp, and while the two peons hold down the horse, he girths on the saddle very tightly. He then jumps into the saddle, and the other men giving the horse his head, the rider grasps the halter and prepares for action. At first the animal jumps about, sometimes with all four of his legs off the ground at once; but the spurs of the Guacho soon set him going, and off he gallops, doing everything he possibly can to unseat his rider. After galloping him about, and flogging him until every bit of spirit seems taken out of him, the Guacho rides back slowly to the corral, and the horse, so lately unruly, is quite tamed, and fit for domestic use. Immense quantities of the skin of the horse are exported annually from South America. The horse is naturally an herbivorous animal, as his thin muscular lips, with his compressed mouth and sharpincisor teeth, are well fitted for seising and cropping various species of grass. In a domesticated state, however, he is obliged to eat other and harder food, as oats and corn; and for this a provision is made by nature, who supplies him with a peculiar adaptation of the bones of the face, by means of which the horse can comminute and grind down his food better than carnivorous animals. As the eath of a horse indicate his age, as well as being disease. down his food better than carnivorous animals. As the teeth of a horse indicate his age, as well as being distinguished for their adaptation for masticating purposes, it will be necessary to give them some slight consideration. The colt is generally dropped with the first and second molar and grinding teeth apparent. When eight days old, the two incisor teeth (central) come out, and in the next five or six weeks he has the two next incisor teeth supplied. In three months' time these teeth will all be uniform, and a third grinder appears; and, after the colt has attained his eighth month, the third nipper down his food better than carnivorous animals.

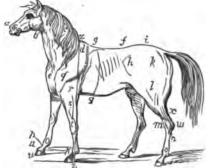


Fig. 1318.

e, Mussle. 5, Gullet. c, Orest. d, Withers. c, Chest. f. coins. gg, Girth. h. Hipor Illium. f, Oroup. h, Hanncho uarters. d, Thigh. m, Hock. m, Shank or cannon. o, Fetlock. f. coins and for cannon. o, Fetlock. f. coins and for arm. f, Knee. w, Coronet. v, Hoof. w, Point of hock. Hamstring. sg, Height.

guerrars. 1, hagh. W. Roes. W. Shash or canses. 8, Februhigh or arm. 4, Shoulder-bose or scapula. 7, Eibow. 8, Forethigh or arm. 4, Knee. et Ceronst. 9, Hoof. W, Foist of hook. Ramsring. 27, Height.

above and below, on each side, will appear, and the colt will be found furnished with his full complement of front teeth. These teeth are provided with an elevated cutting edge of enamel, and this edge is bent inwards and over the tooth, so as to produce a sort of cavity or depression behind it, which constitutes the mark: it is gradually worn down by chipping the grass, and is at length totally obliterated. By the degree in which this mark is effaced, we are enabled to judge of the age of the animal. It may also be added that the deciduous teeth are lost in the order of their acquisition; the two middle incisors of both the upper and lower jaws being displaced between the second and third years. A three-year-old colt has the permanent middle incisors above the gum, but not on a level with the adjoining deciduous incisors; these are also characterized by a large deep groove containing a black substance crossing transversely the working edge of the corner of the tooth, and the sixth grinder is also coming into place. At four years the sixth grinder is a level with the others, the third deciduous grinder is shed, and the mark is fainter. At six years the fissure on the middle incisors is worn away, but the discoloration still exists; at seven years the mark is worn away from the four middle incisors is worn away, the age of the animal. It may be added, that these marks are sooner worn away in a stall-fed horse (in consequence of its eating more osts and harder substances) than one at grass; and also that they are sometimes prematurely worn away in a "crib-biter." The mare goes with young upward of eleven months, and foals standing. The age to which horses would reach, if untouched by disease, is not correctly known; many have exceeded thirty and even forty years, but the majority arrive at their end before they have domestication makes in this animal is in increasing the bulk of his trunk in comparison with his head and limbs; and of all varieties this change is more observed in the Arabian than any other. The head is not only proportionately smaller, but is remarkable for the breadth and squareness of the forehead, the shortness

and fineness of the mussle, prominence and brilliancy of the eyes, and the smallness of the ears. The neck of the Arabian horse is long and arched, and beautifully

HORS

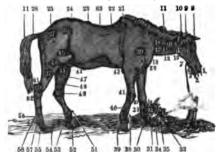


Fig. 1319. — A horse approted with 63 diseases.

Fig. 1319.—A HORSE AFFECTED WITH 63 DISEASES.

1 Glanders. 2 Slabbering. 3 Parrot-mouth. 4 Lower Jaw, fistula. 5 Upper Jaw, fistula. 6 Blind. 7 Jaw, fistula. 5 Lopped ears. 9 Habbit ears. 10 Poil evil. 11 Mange. 12 Deer or Goat Deck. 13 Fistulous parotid duct. 14 Swelling of the glands. Deck. 13 Fistulous parotid duct. 14 Swelling of the glands. 15 Enlargement of the veils. 16 Enlargement of the parotid glands. 17 Fistula of the veils. 16 Enlargement of the parotid glands. 17 Fistula of the veils. 16 Enlargement of the thest. 25 Endards. 25 Endards. 27 Masting of muscle. 25 Rat-tail. 28 Spralu of the bask tendons. 20 Splint. 3 Wind-galls. 32 Enlargement of fellock. 3 Nide-bons. 34 King-bons. 35 Coversion. 36 Quarter crack. 37 Swelling of knee. 35 Stiff Joint. 19 Contracting of the bons. 45 Ratputer. 48 Weak Joint. 42 Tumor on either. 45 Ratputer. 48 Rapture. 48 Rapture.

saddle-galls.

joined to the chest; the withers are high, and the shoulder-blade has its proper inclination backwards; while the finences of his legs and the oblique position of the pasterns might be supposed by the uninitiated to lessen his apparent strength; but the leg, although small, is deep, and composed of bone of the densest character. Besides, the tendons are sufficiently distinct from the bone, and the starting muscles of the fore-arm and the thigh indicate that he is fully capable of acomplishing many of these feats which the wandering Bedouins and Arabs of the desert relate of their horses.

The Arabian horse generally stands in height fourteen Bedonins and Arabs of the desert relate of their norses. The Arabian horse generally stands in height fourteen hands two inches. The Barb is another variety of the horse, and is smaller than the Arabian, which, however, it eclipses in general excellence, although it has not the Arabian's unflagging speed and spirit. The Persian horse is larger than the last-mentioned variety, borse, and is smaller than the Arabian, which, nowever, it cellpses in general excellence, although it has
not the Arabian's unflagging speed and spirit. The
Persian horse is larger than the last-mentioned variety,
and is more adapted for warlike purposes than for
speed and endurance. The East India horse is from
fourteen to fifteen hands high, and is remarkable for
a want of bone below the knee, and a fulness of the
hocks, which places it far below the Arabian in the
scale of excellence. The Burman horse is very small,
but spirited and strong; he is generally about 12 hands
high. The Tartar horse is of moderate size, but full of
spirit, and very bold, active, and muscular. The flesh
of this horse is a frequent article of food among the Tartars, who also regularly employ the milk of their mares
for domestic purposes. The Spanish horse formerly borea
considerable resemblance to the Arabian, in consequence
of an admixture of their blood; but the breed has now
become much deteriorated. The Flemish horse is a large
muscular animal, strongly and beautifully formed. It is
very hardy, and able to endure the service of military
campalgns better than any other horses. The English
have paid the most attention to the breeding of horses,
and have surpassed all other nations in the one quality
of speed. The principal varieties of the English H. are:
the Road-H., the Coach-H., and the Race-H. With regard
to the hackney, or road-horse, Mr. Youatt says: "he
should be a hunter in miniature, with these exceptions:
his height should rarely exceed 15 hands and an inch,
he will be more strong and more pleusant for general
work below that standard: he certainly should be of a more compact form than the hunter, and have more
bulk according to his height. It is of essential consequence that the bones beneath the knee should be deep
and flat, and the tendon not tied in; the pastern should
be short, and although oblique or slanting, far less so
than that of the race-horse or hunter. The foot is a
matter of the greatest consequence hardihood to stand a long day's work." The best dray-horses, of which so many splendid specimens are exhibited in brewers' wagons, are produced by a cross between a Suffolk punch and a Flemish mare. The fleetest var. Horse'-dealer, n. One who buys and sells horses: is the English race-horse (Fig. 1320), the breed of which is traced back

is traced back to an Arabian stallion in troduced into Great Britain by a Mr. Darley; whence it was termed "the termed "the Darley Arabian." Pais horse was the Cure of Flying Chilers, and the greatgrandsire of Eclipse, which latter horse ran a mile in one m

1538



a mile in one minute. — The horse inhabited America a mine in one minute.—The norse innanted America during the post-plicene period, contemporaneously with the mastodon and megalonyx; its fossil remains, chiefly molar teeth, have been so frequently found, chiefly in the Southern States, and have been so carefully examined by competent palseoutologists, that no doubt can remain of the the existence of the horse in the Western World. There is no doubt, hownorse in the western world. There is no doubt, nowevor, that it was unknown to the indives of America
at the time of its discovery. America has taken advantage of the best breeds of the Old World, and can compete favorably with any country; her trotting-horses
have no superior. See Hosse-racine.

Horse, n. The male of the equine kind—as opposed to
the female, or mare.—A body of troops serving on horse-

ROFES, N. The male of the equine kind — as opposed to the female, or mare. — A body of troops serving on horse-back; mounted soldiers; cavalry; — used without the terminative plural; as, a regiment of horse, a equadron of light-horse. — In this sense formerly used in opposi-tion to foot, as, by modern usage, cavalry in distinction

(Mil.) In England, a wooden contrivance shaped in the form of a horse, for soldiers to ride upon by way of punishment. (Also termed a timber-mare.)

punishment. (Also termed a timber-mare.)

—A framework with legs, used as a prop or support for something; a rail; as, a clothes-horse.

(Naut.) A foot-rope to support the feet of seamen while leaning over a yard or boom to furl the sail. (Generally in the plural; as, the horses, or horses of the yards.)

—Also, a rod or rope, along which the edge or the corner of a sail traverses by means of hanks. —Also, a large round bar of iron fixed in the head of a ship.

To take horse, to set out to ride on horseback; to be mounted for a journey. "I took horse to the Lake of Constance." (Addison.) — To be covered, as a mare; as, she takes the horse kindly.

(Minsing.) To divide a vein into branches for a distance. Herse, v. a. To furnish with a horse or horses; to mount on horseback. —To ride astride, as on horseback; to sit astraddle. —To take or carry on the back; as "horring a deer." (Butler.) — To place on the back, or on a wooden block for the punishment of flagellation; as, to horse a school-boy. — To cover, as a mare; as, she was horsed by a blood-stallion. to horse a school-boy. — To horsed by a blood-stallion.

v. n. To get on horseback; as, the lady was horsed with

Horse'-ant, n. (Zoöl.) A species of large ant; ho mica rufa.

emmet; Formica rufa.

Horse Artillery, n. (Mil.) See ARVILLERY CORPS.

Horse back, n. The back of a horse.— The state of being mounted on a horse; posture of riding on a horse; expressed especially in the phrase on horseback.

"I've seen the Franch, and they can well on horseback." Shake.

Horse'-ball, n. In veterinary surgery, a large pill, or bolus, administered as medicine to horses.

Horse'-balm, n. (Bot.) See Cullinsonia.

Horse'-beam, n. A sort of small bean, used as food

Horse'-block, s. A block of wood or stone, placed a convenience to assist persons in mounting and dis-

mounting from a horse.

Horse'-boat, n. A boat or barge used in transporting horses over a river or other water. — A boat hauled

horse sour a river or other water. — A boat hauled along by horses; a kind of ferry-boat.

Horse'-boy, n. A stable-boy; a helper; a boy employed in tending and cleaning horses.

Horse'-breaker, (-brdk'r.) n. One who breaks in or tames horses, or educates them for draught or the saddle.

—A term brought into recent use in England to designate a lady-equestrian belonging to the demi-monde.

Horse'-cassia, (-dsh'ya), n. (Bot.) See Cassia.

Horse'-chasia, (-dsh'ya), n. (Bot.) See Cassia.

Horse'-chasianter, (-chdn'er.) n. One who cobbles up broken-winded or spavined horses, and passes them off as sound. (Cant.)

Horse'-chesianut, (-chdr'nut,) n. (Bot.) See Æsculus.

Horse'-cloth, n. A covering for a horse; a rug.

Horse'-clothing, n. The equipments of a horse, consisting of a cloth cover, saddle, &c.

Horse'-courser, n. One who runs horses, or keeps horses for racing.

—A dealer in horses.

horses for racing.

—A dealer in horses.

Horse Cave, in Kentucky, a post-village of Hart co.

Horse Creek, in Alabama, enters the Tombigbee river in Marengo co.

—A post-office of Walker co.

Horse Creek, in Missouri, enters the Sac river in

e Creek, in N. Carolina, enters the Neuse river

Horse Creek, in Tennesses, a P. O. of Greene co.

one who traffics in horsefiesh.

Horse'-doctor, s. A veterinary surgeon; a farrier. Horse'-drench, s. A dose of physic administered to a horse

Horse'-dung, n. The excrement of horses.

Horse'-emmet, n. Same as Horse-ant, q. v.

Horse'-faced, (-fdst.) s. Having a long, lanthern-

Horse'-ferry, n. A ferry over which a horse-boat

crusse.

Herse'flesh, n. A term applied to horses generally;
as, he is a good judge of horseflesh.

Herse'flost, n. (2001.) See Gerand s.

Herse'flost, n. (801.) See Tussing.

(2001.) The King-crab or Horse-shoe, Limulus Ameri-

canus, a crustacean so called from its recemblance to

the hoof of a horse.

Horse-gentian, a. (Bot.) See Thiosthum.

Horse-gentian, (gdrds,) n. pl. (Mil.) See Guards.

The Horse-Guards, (in England,) the name given to the head-quarters of the British army. It is situated in London, and takes its title from two mounted troopers of the "Royal Horse-Guards," who are posted as sentries at the entrance. It forms a distinct establishment from that of the War Office, the latter monopolizing the financial or legislative dept. of military affairs under the control of the Secretary-at-War, while the Horse-Guards has the executive charge under the orders of the commander-in-chief.

Horse-hair, n. The long hair of horses, as that of the mane, tail, &c.

—a. Made of horse-hair; as, a horse-hair cushion, a horse-hair chiguon.

Asir chignon.

Horse head, in Arkonea, a village and township of Johnson co, about 90 m. W. of Clarksville.

A post-office of Columbia co.

Horse'head, in Maryland, a post-village of Prince

George co.

Horse heads, formerly Fairrost, in New York, a
post-village and township of Chemung co., about 6 m.
N. of Elmira. Pop. of village (1897) about 1,780.

Horse Island, an islet off the coast of the co. Cork

Munster, Ireland. Horse'-hoe, s. A hoe for cleaning a field by the aid of

Horse'-jockey, s. A buyer or vender of horses;

Horse-dealer.

Horse-knop, (-nop.) n. (Bot.) See Centaurea.

Horse-laugh, (-ldf.) n. A loud, rude, boisterous

laugh.

"A horse-laugh, if you please, at honesty. —Pope.

A large laech that bites hor Horse'-leech, n. A large leech that bites hors

"Like horse-leeches . . . the very blood to suck."-Shaks. —A veterinary surgeon; a horse-doctor; a farrier.

Horse'-leechery, a. Farriery; art of veterinary

surgery. **Horse'-litter,** n. A litter suspended on poles between

two norses.

Horse'ly, a. Possessing horse-like qualities; — applying to a horse, as manly to a man.

Horse'-mackerel, n. (Zod.) The Thynnus vulgaris, a gigantic species of mackerel; or the blue-flah, Tenmodon zalvador.

don salvador.

Horse'man, n.; pl. Horsemen. A rider on horse-back; a mounted man; au equestrian; a man skilled in horsemanship or the manege.—A cavalry soldier; one who serves on horseback.—A variety of the pigeon kind.

Horse'manship, n. Act or art of riding; manege; practice of training and managing horses; equestrianism.

reemanehip."—Shake

"And witch the world with noble Ac "The natural paces of the horse may be thus enumerated, in their proper order:—the walk, the trot, the gallop, the canter; and perhaps leaping may also be included, as it is undoubtedly a pace belonging to the horse, as to other saltatory animals. First, with reference to the walk, it is considered, when slow, to be the simplest of all paces; but when accelerated, even in the slightest degree, it is not so simple as imagined, for it is often indegree, it is not so simple as imagined, for it is often in-termixed with motions appertaining to other paces, by a successional displacement of the limbs, out of the more common course. It is stated by a writer in Biaine's "Encyclopsedia of Rural Sports," with regard to the description of this mode of progression adopted by the horse, that he found that, supposing the off fore-leg to begin, it was immediately succeeded by the near hind one, but the off hind-leg seemed not to follow the horse, that he found that, supposing the off fore-leg to begin, it was immediately succeeded by the near hind one, but the off hind-leg seemed not to follow the fore-leg at the same time as before, i.e. that was in the walk of the pace which he had been previously noticing; but this was nothing more than the alteration of the form of the body, when either the one walk or the other took place. For when the off hind-leg began, it was succeeded by the off fore being lifted up, and when the off hind-leg was set down, the near hind-legs seemed so connected together by the poise being on the same side, that it was the near hind-leg which appeared to begin the action. The poise being altered by the will of the horse, the off fore seemed to begin, and not to be succeeded by the off hind-foot being set down at the same time after it, as in the walk of the place. The near hind-leg is in both paces (i.e. the common walk and the pacing walk) taken up after the off hind-foot is set down, and when the off fore-foot is set down, the near fore-foot is taken up, to make room for the near hind-foot to be set down. In order to render the walk agreeable to the rider, it should be true; that is, it should be conducted rider, it should be true; that is, it should be conducted

by an harmonious and symmetrical elevation and depression or setting down of the feet. To walk fast requires great liberty in the angles of the limbs, but particularly so in the elevation of the fore-parts, and obliquity of the shoulders; a corresponding length and angularity in the hind legs is also requisite for the perfection of the pace. In the language of Blaine, the walk as a pace should be performed as harmoniously as any artificial cadence of the manage, and that whether it is quick or slow, each foot being dropped flat on the ground, and not, as is too often the case, the toe being placed first, and then the heel. The breaking of a horse ground, and not, as is too often the case, the toe being placed first, and then the heel. The breaking of a horse will have much influence on his method of walking; the angles of his limbs will have much more; and not a little will depend on the hand of the rider. One horseman by seat and hand will force the horse to carry his head in the right place, and to elevate and extend his limbs, the one in union with the other; and another indicate he his head right piace, and to elevate and extend his limbs, the one in unison with the other; and another rider, by his bad seat and coarse hand, will bring his horse to stop abort and irregularly, and thus so mix the trot with the walk as to do little more than shuffle over the ground. The maximum of speed in the true walk of the horse is six wiles an hour. There are few animals, however, that miles an nour. There are few animals, however, that have accomplished this; and consequently, five miles per hour is a good rate of speed for a fast walker. The trot is the next pace after the walk, and it is always performed diagonally, the limbs being differently employed, according to the rate of progression, whether fast or slow. There are three varieties of the trot; namely, the siow. Inser are three varieties of the trot; namely, the moderate, the extended, and the running trot. In the moderate, or slow trot, the diagonal legs (as the off formand near hind-legs) are elevated, and replaced on the ground together; while the two other legs remain on the ground to support the weight of the horse and his rider. The extended trot of a horse and the run of a man are The extended trot of a horse and the run of a man are nearly identical in their manner of employing motive power, as the fore and hind diagonal legs acting in unison form themselves into a sole support, like the single leg of a man; the only difference being that the centre of motion is placed diagonally across it; by which means the superincumbent weight, although moving on two distinct members, produces but one effect. The space of ground usually gone over at each change of the limbs in the fast trot is a sufficient proof that a spring is made in the action, which tends to detach the horse, at one in the action, which tends to detach the horse, at one particular moment in the pace, completely from the ground; and that, mathematically speaking, the body is propelled through a space corresponding in ratio to particular moment in the pace, completely from the ground; and that, mathematically speaking, the body is propelled through a space corresponding in ratio to the force employed to gain the impetus. The running-trot is often confounded with the darting or elongated trot, from a very erroneous impression that the method of procedure is identical; really, this pace is a compound of the true trot and the "amble," and it is not conducted diagonally, as the other varieties are. With regard to the gallop, it is stated by Blaine that it may be properly divided into three varieties, all effected, however, by a propulsive effort of the hind-quarters. Of gallops there are, — the racing, or gallop at full speed: the slow, or hand-gallop; and the canter; which latter, although treated as a separate pace of the horse, is really but a slow gallop. The first of these varieties, or the racing gallop, is nothing more than a succession of leaps. Simple as it is, it nevertheless cannot be commenced without the intervention of the slower gallop, in which one out the intervention of the slower gallop, in which one of the hinder legs is first advanced to establish a new centre, for it would require too great an effort to raise the fore parts at once from a state of reat by means of the loins, and to throw them forward at the first action to a considerable distance by means of the haunches and thighs. "In the extended gallop, the fore parts when raised are forced forwards by the alternate flexions and extensions of the angles of the hinder parts, and as both of the fore and both of the hour legs, in the racing gallop, become opposed to the ground in succession at the same moment, that is, as the two fore-feet beat the ground together and then the two hind, so it is evident that the gallop of full speed is nothing more than a repetition of leaps. Quickly as these leaps are repeated, yet the surface of ground passed over at each of them must necessarily be great to accomplish the nace at which the good racer goes. Hambletonian, in his match against Diamond, is said to have covered 83½ feet of ground in a second; and by the calculations of Mons. 8t. Bel, Eclipse covered 85 feet of ground in the same time when a the top of his speed." (Blains.) The handgallop is a pace between the amble and the racing gallop, and differs from both, from the fact of its not being performed diagonally, and from the limbs not being thrown out and contracted equally, one generally taking the lead, as it were, of the other, and being pushed further forward, while the other is more curved. The canter differs from the gallop in consequence of the movements of the legs, instead of being simultaneous, being directly the reverse. At no period of time is the animal wholly in the air, one of his legs being always touching the ground; and this it is that gives the pace its peculiar effect. When it is performed, asy, on the right, the horse commences by first placing his off hindeleg a little beyond the other; at nearly the same instant he elevates the fore-hand and places first the sear. out the intervention of the slower gallop, in which one of the hinder legs is first advanced to establish a new right, the horse commences by first placing his off hind-leg a little beyond the other; at nearly the same in-stant he elevates the fore-hand and places first the sear fore-leg on the ground, when the off, doubling over and beyond, is placed in an instant after it. In the next movement, the hind-legs are thrown in, and, while ele-vated, the off fore-leg is never elevated until the hinder ones are replaced on terra-firms. In order to insure the safety of progression of the horse, the Parthians used to place pleces of chalk and stones in the paths of their young horses, so as to accustom them to look to their steps, and to elevate their feet sufficiently; while the young notes, and to elevate their feet sufficiently; while the Romans tied clogs to the pasterns of their colts for a similar purpose. As leaping will be treated of in the  $\mathbf{U}$ 

article Huwring, enough has now been said with reference to the natural paces of the horse. It would be impossible to find out who was the first thorseman; but there is little doubt that even in the remotest ages of antiquity, men were accustomed to mount their steedig, causing them to career along with that irresistible speed and endurance with breakhanthy seen considered as one of the corporeal accomplishments of a gentleman. There is a great difference between a regimental riding and that of a gentlem portainan, as the following distriction, taken from an article in the Bengclopedicia Britzensica, will show: "The military seat approaches nearer than any other to that of the sandys; and, by reason of the horse-soldier having, in general, but one hand to hold his bridle with, is one which gives him great command over his horse, without disturbing his seat. He six well down in his addition with his horse; his legs well stretched down the sides, with a firm pressure of the calves, as well as of the knees and thighs, and the feet firm in the stirrups. But it is not by any owe of these sids that he becomes a good horseman. He must be in perfect unison, as it were, with his horse's actions and paces to maintain a good and graceful seat; and in proportion to the just balance, and reportion of his body will he be able to have a steady hand, a point of vast importance to the draycon. The importance of this balance, and keeping himself in a proper equilibrium with his horse, is increased by the fact of his not being well as the strength he has retained in the case of the bridge-hand." To quote another authority: "The man who rides with the sid of the proper equilibrium," says Colonel Peters, "will, in case of necessity, know when to apply the strength he has retained with a steady, light hand, and govern every motion according as he finds it necessary for light particulary of the proper equilibrium," says Colonel Peters, "will, in case of necessity, know when to apply the strength he has retained with a steady when the

a firm seat. The thighs should touch the saddle and the sides of the horse with their inner surface chiefly, and the knees and toes should not protrude too much. The toes should be turned a little outward and upward; for the toes being turned in, necessarily cramps the knees, and prevents the animal from exerting his strength. The manner in which the foot is placed in the stirrup varies considerably with different riders. "The soldier always, the rider for pleasure or on the road generally, rests on the ball of the foot, with a gentle play of the instep; but the man who rides after hounds, and the jockey when he rides a race, find it necessary to have the foot more home in the stirrup, with the toes turned a little upward, as well as a little outward. The advantages of all this are twofold. First, it gives them more power over their horses, by furnishing them with a more substantial fulcrum; and, secondly, to the man following hounds, it is a great security against the foot being chucked out of the stirrup, by the seat being disturbed in a leap, or from any of those canses which perpetually occur in crossing a country." As an easy seat



Fig. 1321.

Fig. 1321.

(Fig. 1321) is most important to persons who are obliged, whether by necessity or pleasure, to ride many hours in succession on the road, the following rules should be carefully observed, in order to obtain the same: The rider should, in the first place, sit well down in the middle of the saddle, with just that length of stirrup-leather as will admit of the fork clearing the pommel of the saddle. The body of the rider should also incline forwards in the trot, as he thus furnishes a proper counter-balance to the movements of the horse; and, above all things, a steady seat must be maintained, as, unless such is the case, the latter will be incommeded in his face and distressed beyond measure. (See HUNLING.)—"Nothing sets off the appearance of a horse and his rider more than a good saddle and bridle: nor does anything contribute more to the comfort and safety of the latter than a well-made roomy saddle, with spring-bars for the stirtribute more to the comfort and safety of the latter than a well-made roomy saddle, with spring-bars for the stirrup-leathers; stirrups rather heavy than otherwise, and sufficiently large for the feet."

Horse-marten, n. (Zoll.) A large bee, belonging to the genus Bombus.—See APIDE.

Horse-maill, n.—Bee APIDE.

Horse-mill, n.—A mill worked by a horse.

Horse-millimer, n. One who furnishes fancy articles for the decoration of horses.

Horse-mind, n.—(Bot.) See MENTHA.

Horse-mattle, n.—(Bot.) See Solanum.

Horse-mettle, n.—(Bot.) See Solanum.

Horse-mettle, n.—(Bot.) See Solanum.

Horse-millimer, n.—Barge kind of mussel.

Horse-millimer, n.—A large kind of mussel.

Horse-millimer, n.—Bot.) See Solanum.

Horse-millimer, n.—Bot.) See Solanum.

Horse-millimer, n.—Bot. See Solanum.

Lies see Solanum.

Horse-play, n.—Bough, rude, boisterous play.

"Be is too much given to horse-play in his railler,"—Drydon.

Horse-pond, n.—A pool or pond for watering horses.

Horse'-play, s. Rough, rude, boisterous play.

"He is too much given to horse-play in his railiery."—Dryson.

Herse'-pomd, n. A pool or pond for watering horses.
Herse'-power, s. (Mech.) The power of a single horse, or its equivalent power, which will raise from 30 to 33,000 lbs. avoirdupols one foot high per minute. As applied to steam-engines, it refers to the weight they are capable of raising to a given height in a given time. It has been proved by experiment that the heat expended in the vaporization of 34 lbs. of water per hour, will develop a force equal to 33,000 foot-pounds; and as it takes about 4 lbs. of coal per hour to vaporize that quantity of water, it follows that the heat developed by the burning of 4 lbs. of coal per hour, vaporizing during that time 34 lbs. of water, develops the same amount of force as that exercised by an average horse exerting his full strength at any ordinary work.

—A horse-engine; a machine worked by a horse or horses.

Horse'-race, s. A race by horse; a match of speed contested by horses.

Horse'-racing, s. (Sportz.) The practice of running horses in matches for a certain stake or honorable trophy. This popular sport of the ancient Greeks and Romans may be said to have been revived in modern times as an English institution, from which people it has spread and become popularized over the principal countries of Europe, as well as in this country. Referring to the heads Horse and Horsemansh

the natural history, management and training of the horse, we propose to consider here the special training of horses intended for H.-R. The first thing training of horses intended for Hr. R. The first thing which has to be attended to in the education of the racer, is breaking-is the colt: and this is commenced generally when the animal is about twelve months old. The great points are, to command obedience and inspire confidence; for if these are not well grounded into the colt at an early age, his future career will meet with many obstacles. The application of the caresson is the first active restraint applied to all colts, whether destined for the turf or not; but with racers the colts are generally booked first, in order to prevent them from rubbing their legs together while lossnging. The colt is bitted, and a long halter attached to the front part of the non-setrap, which the trainer holds in his hand, while a had walks behind the animal with a whip, and urges him on by cracking it, without, however, whipping him. In three or four days, when they go boildy and freely at full length of the rein each way in the lounge, for fifteen or twenty minutes, having by degrees been brought to this pace and time of lounging, the mouthing-bits, rollers, and cruppers may be put on; and when the colt has become accustomed to them, the saddling him is the next step to be gained. For the first time this operation requires the greatest caution and care; the girths should not be drawn light, and the stirrups should not be left hanging loose; while the bearing sp of the bridle should be gradual, and vrising back must not be too roughly pressed on the colt, by way of suppling his shoulders and giving sensation to the mouth. Hounting him should be only very carefully attempted, and when he seems to be quite at home with the saddle on his back; and the colt should be familiar with the person who first seasys to back him. In Darvilli's work "on training," it is truly stated that the giving and taking by gentie pulls and pressure of the bits. The rider should occasionally gently press the caives of his legs and heels to the colt's sides, to urge him on and up to the bit, pulling h and none. According to the authority quoted, training exercises for race-horses are confined to walking, cantering, and galloping; trotting forming no part of turf-practice. Early in the morning, the horses having been rubbed over and combed, each being mounted by a boy, the whole are ridden out of the stable in their body-clothes and hoods, into the stable-yard, where they continue to walk round and round as long as it is thought necessary to steady the colts, and settle the saddles to their backs, which it is very necessary to do to prevent the vice of kicking from growing on them. In very bad weather the court-yard is often the limit of their exercise; but at all other times they proceed to the ground, or "tar-gallop," where they walk for a longer or shorter period, in proportion to their fitness for light or strong work. Sweatings are important agents in training, as by this process the body of the horse is relieved from all unnecessary matter; they promote speed by

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lightening the body, and give increased endurance by clearing the air-vessels. The process by which this is done is to envelop the horse in blankets and heavy clothes, and start him into a canter; after which he is stripped and rubbed down, and his clothes resumed. Racers are generally clipped once in the winter; but if as second time. So much for the horse itself; but as one or two other incidental circumstances are connected way which is accessible to horses.

a second time. So much for the horse itself; but as one or two other incidental circumstances are connected with horse-racing, the jockey may be mentioned next. According to "Nimrod," he should "possess the following not every-day qualifications:—considerable bodily power in a very small compass; much personal intropidity; a kind of habitual inseemblility to provocation, bordering upon apathy, which no efforts of an opponent in a race can get the better of; and an habitual check to the tongue. Exclusive of the perli with which the actual race is attended, his profession lays a heavy tax on the constitution. The jockey must at all times work hard; but, the hardest of all tasks, he must work upon an empty stomach. During his preparation for the race, he must have the abstinence of an Asistic; indeed, it too often happens that at meals he can only be a spectator,—we mean during the period of his wasting. To sum up all, he has to work hard, and deprive himself of every comfort, risking his neck into the bargain,—and for what? Why, in England for \$25 if he wins, and \$15 if he loses a race. The famous Pratt, the jockey of the no less famous Ginerack, rode eleven races over the Beacon course in one day, making, with returning to post on his hack, a distance of eighty-eight miles in his saddle." In riding a race, the length which the man rides should be so regulated that the should be solve too stand easily in his stirrups, so as not to be so much raised above the saddle that the bridle is required as means of support. Just before a race commences, the horse are ushered forth from their stables, and brought to the "paddock" with their clothes on, when the business of stripping and saddling is commenced; and few things take the eye of the spectator more than the smallness and lightness of the jockeys' wide the supply and the supply of the supply of the supply and the supply of the supply of the supply and the supply of the supply materials, in order to avert any evil consequences which might accrue both to the horse and his rider from the accidental slipping of a strap or the rupture of a girth, or similar casualties. The horses after being saddled are mounted by their jockeys, who take a preliminary canter to get them in heat for the forthcoming race. They are then pulled up and ranged in a line at the starting-post, from which they go off at the signal given by the starter, who drops a flag for the purpose. As some horses are restless and uneasy, a reasonable indulgence is given by the judge for "false starts," and the whole batch are called back to the post and started once more. In a short course the speed is generally husbanded until the finish, when the jockeys go to work with spur and whip to make the most of their various chances. In a long race, however, of three or four miles, if a jockey is mounted on an aged horse, and the rest of the competitors on two- or three-year olds, he generally puts forth the best speed at first, in consequence of his own horse being able to last twice the distance that the others can, and when they are exhausted he is able to go in and win. See Photography, Instantaneous; Hoese-racing, in Section II.

Herse'-radish, n. (Bot.) See Cohleare.

Herse'-radish, n. See Tean-way.

Horse-radism Troe, a. (2007) and any party perma.

Horse-railread, a. See Tran-way.

Horse-raike, a. (Agric.) A tool, of the toothed kind, of various sizes and forms, used for different agricultural purposes, and worked by horses. The dragrake, in its simplest form, is merely a long cross-head with a row of teeth placed in it. In some these are straight; they are, however, generally bent, with their points projecting forwards. Rakes of this kind are used on fallows to remove the stones, and act as a harrow in getting together the rubbish. In harvest-time they are sometimes used as an ordinary rake, to collect the loose corn which may have escaped from the seythe or sickle.

Horse-reding, a. The art or practice of equestrianism.

anism.

\*\*Herse'-rum, n. A contrivance for drawing up loaded wheelbarrows, by a horse, from deep excavations, for railroads, canals, &c.

\*\*Herse'-shoe, (-shōō,) n. A semi-circular plate of iron nailed to a horse's hoof, to serve as a shoe.

named to a norse's noof, to serve as a shoe.

—Anything formed after the manner of a horse-shoe.

—a. Having the shape of a horse-shoe; as, a horse-shoe arch.

Horse'shoe-head, n. (Med.) A disease in infants in which the sutures of the skull are too open; —opposed to headmould-shot.

Horse'shoe-vetch, Horse'-vetch, n. (Bot.) 8

HIPPOCREPIS.

Horse'-shoeing, n. Act or art of shoeing horses.

Horse'-stealer, Horse'-thief, n. A thief who abstracts horses and makes away with them.

Horse'-stinger, n. See Dragon-Fly.

Horse'-tail, n. (Bot.) See Equicators.

—A Turkish standard symbolizing a degree of rank.

Horse'-tammer, n. One who subdues wild, intractable horses; a horse-breaker; as, Rarey, the horse-tamer.

Horse'-thistie, (-his',) n. (Bot.) A name sometimes given to plants of the genus CRICUS, q. v.

Horse'-tongue, (-ting), n. (Bot.) See Ruscus.

Horse'-tongue, (-ting), n. (Bot.) See Ruscus.

Horse'-tongue, (-ting), n. (Bot.) See Ruscus.

Horse'-trainer, s. One who trains horses; one who

HORT

Herne'-traimer, n. One who trains horses; one who practices the manege.

Herne'-trough, (-trav/,) n. A cistern or drinking-place for horses; as, to duck a person in a horse-trough.

Herne'-wetch, n. (Bot.) See Horseno-verca.

Herne'-way, Herne'-read, n. A bridle-road; a way which is accessible to horses.

Herne'-weed, n. (Bot.) A species of plants, genus kingron, q. v.

Herne'-whipp, n. A whip for atriking or driving horses.

-v. a. To strike, lash, or flog with a horse-whip; as, I horse-whipped the scoundrel within an inch of his life.

Herne'-whipping, n. Flagellation with a horse-whip; :-hence, any castigation with a lash or thong; as, he deserves a horse-whipping.

Herne'-womman, n.; pl. Horseworen, n. A female who rides on horse-back; a lady-rider; an equestrienne.

"My lady was the best horse-seemen that wer topped a bull-

Gulf of Christiana, 32 m. 8. of Christiana. It is the station of the Norwegian naval fleet, and furnishes hence employment to the inhabitants in the various details of ship-building. The arsenal of the government is located here.

Hortemse, Eugine de Beauharnais, her first husband, was a at Document de Beauharnais, her first husband, was a at Paris, 1783, and married to Louis Bonaparte, the brother of Napoleon, in 1892. The match had been desired by the consul for political reasons, and it proved a most unhappy one. In 1803, H. became queen-consort of Holland, and about a year afterwards was separated from her husband after giving birth to three sons:—1. Naroleon Charles, who died in infancy, and whose intended adoption by Napoleon was refused by Louis. 2. Naroleon Charles, who was baptized by the pope Pius VII, and instead of attaining the high destiny proposed for him, was killed in an insurrection at Romagna, 1832; and 3. Louis Naroleon, the last emperor of the French. On the divorce of her mother, Josephine, Queen H. Joined her in her retirement of Malmaison, and after her death, in 1814, so soon followed by the fall of Napoleon, became an unprotected and calumniated wanderer, until her residence was fixed at Augsburg by the king of Bavaria. D. Oct. 5, 1837. Her disposition was modest and retiring; her influence at the court of Napoleon was generously exercised in favor of the distressed, and her affectionate solicitude for the emperor was fully manifested after the disaster of Waterloo. H. was duchess of St. Lou in virtue of a settlement made by the allies between the first fail of Napoleon and the Hundred Days.

Hortemsens, Quinvra, a celebrated Roman orator, s. B. O. 114, who, till his great rival Cicero, bore away the palm, and eclipsed all others in the grace and splendor of his eloquence. He was elegant in his style, and acute in the conception and distribution of his matter. He held many civil and military offices; was made consul 68 s. c. ; was Cicero's colleague as augur; and D., immensely rich, B.

the Roman women were required to render an usun on account of their property, she pleaded the cause of her sex with such force, that the decree was annulled.

Horticultor, a. [From horius, garden, and cultor, cultivator.] A person who cultivates a garden.

Horticultorial, a. Relating or pertaining to garden.

Herticultural, a. Relating or pertaining to garden-cultural.

Herticulture, n. [Fr., from Lat. hortus, garden, and colo, I till.] In its most extensive signification, the cultivation of esculent vegetablea, fruits, and ornamental plants, and the formation and management of rural scenery for the purposes of utility and embellishment. The principles upon which the art of H. depends are borrowed from the general sciences. For the facts and theories of vegetable physiology it is indebted to botany; for assistance in regard to the nature of soils and manures, to chemistry; and for a knowledge of many circumstances affecting garden-labor, to meteorology. Until lately, H. was practised and treated superficially,—hence it advanced slowly. But in recent times it has progressed rapidly, since it has been placed on a strictly scientific basis; and a close adherence to the laws of vegetable physiology has taken the place of the prejudices of former times. In the article dangentus will be found a history of that branch of rural economy, considered as an art of design and taste. In this article the three great divisions of H.—fruit, kitchen, and flower garden—will be more particularly alluded to. In many works on H., fruits and culinary vegetables are treated as inseparable; but it is best in practice, especially where high culture is attempted, to keep the kitchen-

garden distinct from the fruit-garden. This systematic arrangement, however, applies more particularly to large establishmenta, where order and system are leading features. In forming gardens of this sort, great attention is required to the size and situation. Ground having a gentle inclination towards the S. is considered very desirable. On such a slope the greatest possible benefit is derived from the sun's rays, and the process of draining is easily effected. Shelter is another object especially necessary. Either natural rising grounds, or masses of trees, supply the shelter required; but the latter should not be nearer than 150 or 200 feet. The latter should not be nearer than 150 or 200 feet. The purpose of such acreens is to break the force of the winds. Water is one of the most important elements in vegetation, and it is "the life and soul of a garden." In form, gardens are generally either square or oblong, and ought to be protected by an onter boundary, formed by a sunk wall or ha-ha, surrounded by a hedge and low wire fence on its inner side. Peaches, apricots, hardy grapes, and most of the delicate French and Flemish pears, require walls for their protection in the N. regions. Walls facing the S. are set apart for the more tender kinds of fruit-trees, while the B. and W. walls are set apart for fruits of a more hardy character. These walls are made either of brick or stone, but brick is preferable on account of its more perfect adaptation to fruit-trees. A considerable portion of the wall facing the south is usually covered in with glazed structures, called hot-houses or forcing-houses. (See Forcins, Hornous.) In many cases, the houses for ornamental plants are attached to these: but their position is properly in the flower-garden. The principal operations in the fruit-garden are propagation, planting, training, and protection of the blossom. Fruit-trees are propagated by seed, by layers, by grafting, and by budding. The process of laying is not much used in H.; but is occasionally employed as the me abrubs; and another where the flower-beds are separated by gravel walks, without any turf. Flower-gardens be-ing objects of pleasure, taste must be the guide in lay-ing them out. In all ages, flowers have been universally cherished. The ancients paid particular attention to them, and they were in great request at the entertain-ments of the wealthy. They were scattered before the ments of the wealthy. They were scattered before the triumphal cars of conquerors, and formed the distinguishing symbol of many of the deities. "Who does not love flowers? They embellish our gardens; they give a more brilliant lustre to our festivals; they are the interpreters of our affections: they are the testimonial of our gratitude; they are often necessary to the pomp of our religious ceremonies; and they seem to associate and mingle their perfames with the purity of our prayers, and the homage which we address to the Almighty. Happy are those who love and cultivate them." We are told that Descartes prosecuted, with equal ardor, astronomy and the culture of flowers. The great Condé devoted his leisure hours to that delightful pursuit; and the vase of flowers was daily renewed upon the table of Lord Bacon, while composing the rolumes of his sublime philosophy. In the cities lightful pursuit; and the vase of flowers was daily renewed upon the table of Lord Bacon, while composing the volumes of his sublime philosophy. In the cities of Europe, flower-markets, for the sale of bouquets and ornamental plants, are as common as those for fruit. Holland has been distinguished, since the period of the crusades, for her flower-gardens, culinary vegetables, and plantations of fruit-trees. The north of Europe and the U. States are still dependent upon her florists for the most splendid varieties of bulbous rooted plants. From St. Petersburg to the shores of the Mediterranean, H. has made a rapid progress, and each nation is emulous to perfect its culture, in accordance with the most improved principles of science, art, and taste. In the United States, a like spirit has been more recently developed. Horticultural societies have been instituted in New York, Philadelphia, Boston, Albany, Genera, and in many other towns, and a zeulous dispositio evinced to compete with the nations of the eastern continent. Horticulturing gardens.

Hortom, a scaport-town of Nova Scotia, co. King's, on an arm of Minas Basin, opposite of Cornwallis. Hortom, in Kossesa, a thriving city of Brown co., 13 m. S. of Hiawatha, on the C., R. I. & P. R.R., whose shops are here located. Pop. (1895) 3,157

Hortoma, in Wiscossia, a village of Outagamie co.

Hortomite, n. Min. A steatitic variety of Pracame (e. s.), found in Orange co., N. Y

Digitized by GOOGIC

Hor'tom's, in Pennsylvania, a post-vill. of Indiana co. Hor'tomville, in Vermont, a post-vill. of Rutland co. Hor'tomville, in Wisconsin, a post-village of Outagamie co., abt. 16 m. W.N.W. of Appleton.
Hort'ulam, a. [Lat. hortulanus: 8p. hortulano.] Belonging or having reference to a garden; as, a "hortulan calendar."

Hor'tus Sic'cus, n. [Lat., dry garden. An HERBA-

Ten'tus Sie'eus, n. [Lat., dry garden. An Herbalium, q.v. Ee'rus, (My.h.) an Egyptian deity, whose name, Har, means "the day," or "the sun's path," and is generally written in hieroglyphics by the sparrow-hawk, which was sacred to him. The old derivation from the Hebrew cast, light, is now recognized as incorrect. Under the name of Horus were included several deities, as Harceris, the elder Horus, and Harpocrates, q. v., or the upper and lower world, who was the second son of Athor, resided in Annu, Heliopolis, and emanated from the sye of the sun; and Har-nat-ta, another form of the same god, represented as a boy wearing a triple crown, who existed from the commencement of things, a self-created being, and emanated from the Nu, or firmament; besides several others. But the principal Horus was H. the son of Isis (Har-ni-heri), represented as a naked Ho'ru besides several others. But the principal Horus was H. the son of Isis (Har-si-hesi), represented as a naked child standing wearing a skulicap, or the crown of Upper and Lower Egypt. When he reached manhood, he attacked his enemy Typhon, the god of darkness, and avenged on him the death of his father. (Seo OSRIIS.) He afterwards travelled through Egypt, introducing everywhere civilization and the arts. His career greatly resembles that of the Apollo of the Greeks.

Hean'ma, n.; pl. Hosannas. [Heb., "Save, I beseech thee,"—from yasagh, to be rich, to be opulent; in one form, to deliver, to help.] An exclamatory utterance of praise to God, or an invocation of benedictions. This Hebrew word occurs only once in the Old Testament.

of praise to God, or an invocation of cenedictions. I make thebrew word occurs only once in the Old Testament, viz. Psalm cxviii. 25. This psalm is the last of those which compose the great Hallel. It was commonly adopted in the Christian Church.

"Through the vast of heav'n it sounded.

est."— Billon.

Hose, (Ads.) m.; pl. Hose, old form Hosen, (Ads.), n.) [Dan. Acce; Ger. Accen; O. Ger. and Icel. Acca; W. Accan, from Acces, a covering.] A covering for the thighs and legs; close-fitting breeches or trowsers formerly worn, extending from the loins to the knees.

His Acce, a world too wide for his shrunk shanks." — Shaks. A close-fitting covering for the legs, including the feet; stockings; socks.

"Will she thy linen wash, or losen darn ?" - Dr

"Will she thy linen wash, or hosen darn?"—Dryden.

(Printing.) An apparatus consisting of upright irons with screws at each end for tightening or loosening the platen cords of a printing-press.

Hose'a, (Script.) The first of the twelve minor prophets as arranged in the Bible. He prophesied for a long time, from Uzzish to Hezekish, about 785-725 a. C. The Book of Hosez contains properly two parts. The first three chapters contain a series of symbolical actions directed against the idolatries of Israel. The remaining chapters are chiefly occupied with denunciation against Israel, and especially Samaria, for the worship of idols which prevailed there. Hoses's warnings are mingled with tender and pathetic expostulations. His style is obscure, and it is difficult to fix the periods or the divisions of his various predictions. He shows a joyful faith in the coming Redeemer, and is several times quoted in the New Testament, (Matt. ix. 13; Rom. joyin tain in the Coming Receiver, and is several times quoted in the New Testament, (Matt. ix. 13; Rom. ix. 25, 26; 1 Pet. ii. 10.)

Tesse'-hooks, n. pl. (Printing.) Four iron hooks at the bottom corners of the hose, to which the platen is

Ho'sensack, in Pennsylvania, a post-vill. of Lehigh co. Hose'-man, n. One who carries the hose-pipe of s fire-engine

Hese'-man, n. One who carries the hose-pipe of a fre-engine.

Hese'-pipe, n. In locomotive-engines, an elastic pipe or tube made of vulcanized gutta-percha, or of canvas saturated with a solution of india-rubber, sometimes galvanized, and forming a good elastic connection between the engine and tender feed-pipes. They are now generally used in preference to ball-and-socket connections for conveying the stream to the tender. Also, the fexible tube attached to a fire-engine, for conveying water or steam to extinguish a conflagration.

Heshe'-a, the last king of Israel, the successor of Pekah, whom he slew, (2 Kings xv. 30,) n. c. 730. He religned nine years, and was then carried away captive by Shalmaneser, z. c. 721.

Heshungabad, a town of Central India, on the Nerbudda, Lat. 220-44' N., Lon. 770-44' E.

Hesier, (hō'sher,) n. One who deals in knitted or woven goods, as stockings, socks, muffetees, &c.

"As arrant a Cockey as any hoster in Chespide." — Swift.

"As arrant a Cockney as any hoster in Cheapelde." — Swift.

He'siery, n. The business or calling of a hosier. —
Stockings and hose in general; socks; knitted or worm goods, as comforts, mittens, &c.

Hes'kinsville, in Ohio, a village of Morgan co., abt.

90 m. E. by 8. of Columbus.

Hos'mer, Harrist, adjestingnished American sculptor, a. in Watertown, Mass., in 1831. Early imbued with a decided inclination for art, she, in 1852, proceeded to Rome, where she entered the studio of the celebrated John Gibson, (v. v.) Making considerable progress in sculptural art, she executed for the city of St. Louis a statue of Ocnome, and a Bratrice Ornoi. In 1855 her Puck was purchased by the Prince of Wales, a copy of the same statue being executed for the Duke of Hamilton. In the latter part of 1859, she finished her most ambitious performance, a statue of colossal size, representing Zenobia in Chains, which has been pronounced her

chef-d'œuvre. Miss H. continues to reside in the

chef-d'œuvre. Film 2. Consider of the film of the film

monks, who receive and hospitably care for wayfarers. The great St. Bernard hospice was founded on the Alps by Bernard de Menthon, a Savoyard nobleman, in 962, and the St. Gothard hospice in the 13th century. Hospitable, a. [O. Fr., from Lat. hospitalis — hospes, hospitis, a stranger who is treated as a guest.] Relating to a host or guest; receiving and entertaining strangers kindly, and without recompense; welcoming strangers and visitors; wishful to treat guests with hearty and generous kindness and liberality; as, a hospitable man.—Manifesting generous kindness; proceeding or indicating a spirit of hearty welcome; inviting to strangers; indicating hospitality and cordial reception; as, a hospitable table. table table.
"She turns . . . on hospitable thoughts intent." — Milton

Hos'pitably, adv. With kindness to strangers or guests; with welcome provision of liberal entertainment; in a hospitable manner.

"Hospitable live, and strangers with good cheer receive."—Prior.

Hospital, n. [Lat. hospitalis, an apartment for strangers.] A place built for the reception of the sick, or support of the poor. The H. of the United States, which are now very numerous in the large cities, are either are now very numerous in the large cities, are enture endowed, or supported by voluntary contributions, and have at their command the best medical and surgical talent in the country. Each H. has two or more resident physicians, and an attending or consulting staff of eminent physicians and surgeons who give their time and services gratuitously. In every institution intended for the relief of the sick, there are a certain number of for the relief of the sick, there are a certain number of free beds, but persons who are able to afford it are usually charged a small sum for their board. H. construction has been greatly improved within the past twenty years. The old-fashioned and very objectionable plain of building upon three or four sides of a square, as in Gny's Hospital, London, has been abandoned, and more commodious and better ventilated structures have been erected in all the principal cities of the North. The Boston Free H., designed by Henry G. Clark, M. D., one of the surgeons of the Massachusetts General Hospital, is a magnificent specimen of the modern style of Resissance architecture, built on the navilion plan with a is a magnificent specimen of the modern style of Renaissance architecture, built on the pavillon plan with a central administrative building, and in some respects is superior to any hospital yet constructed in any part of the world. The Fenna, H. and Epis. H. of Philadelphia—the last built after the plan of the celebrated Lariosière at Paris—appear to fulfil nearly all the requirements of sanitary science, and in all that regards the comfort and hygienic condition of the patients, are not excelled by any similar establishment in Europe. Many of the charitable institutions in Great Britain and on the Continent are called H. and are incorporated bodies possessed of great wealth, which is expended in the support of schools, &c.

Hospital'ity, n. [Lat. hospitalitas; Sp. hospitalidad.]
State or quality of being hospituble; act of receiving and entertaining strangers or guests; practice of wel-

State or quality of being hospitable; act of receiving and entertaining strangers or guests; practice of welcoming visitors with hearty and generous kindness.

Hos/pitallers, n. In its original acceptation, this name was applied to certain religious hadies, who held it their duty to provide lodging and entertainment for persons engaged in pligrimages;—hence, in a modernized sense, one who resides in an hospital to receive and care for the destitute stranger, the disabled, or the sick.

Hos/pitallers, or Orders of St. John of Jerusalem, pl. (Hist.) This celebrated military order originated in a monestery, chapel, and hospital, founded at Jerusalem by some merchants of Amalphi in 1048. In 1099 the hospital received in creased territories from Godfrey de Boutleon, who transferred its government from the

leon, who transferred its government from the monks to his knights. In 1113 they were con-firmed as a spiritual or-der by Pope Pascal II. The H. greatly distin-guished themselves in the crusades, especially at Jerusalem in 1152, and at Acre in 1191. In 1308 their order was united with that of St. Samson of Jerusalem. They conquered Rhodes, Aug. 15, 1309, and from their 15, 1309, and from their settlement in that island are sometimes called the *Knights* of *Rhodes*. Their wealth was much increased in 1311 by the addition of



Pig. 1322.

1311 by the addition of ENIGHT-HOSPITALLER.
the possessions of the suppressed Templars, which were
granted them by the Council of Vienna. In 1321 they
defeated the Turks in a great navai battle, and in 1341
took Smyrna. They took Alexandria in 1365, and in
1480 compelled Mohammed II. to retreat from Rhodes,
which he had besieged with 100,000 men and 160 ships.
In 1484 the possessions of the dissolved orders of the
Iloly Sepulchre and of St. Lazarus were bestowed upon
the H. In 1522 they were compelled to quit Rhodes by
Soliman II., who besleged their garrison of 600 knights
and 4,500 soldiers with a force of 140,000 men and 440
vessels, and in 1530 they were allowed to settle in Malta

by the Emperor Charles V. Hence they are often spoken of as the Knights of Malta. The order was suppressed in England by Henry VIII., 1540, and lost all its privileges in France, Sept. 19, 1792. In 1798 it was expelled from Malta by the French, and has never recovered its political importance. They followed the rules of the Augustines, and wore (Fig. 1322) a black habit with a white cross embroidered upon it.

\*\*Leapitium\*\*, (he-pisi/s-dm.) n. [Lat.] See Hospics. (Law.) An inn; an hotel; an hostel; a place of public entertainment for travellers.

entertainment for travellers.

the annual ribute to the Porte. The present government for travellers.

Hee'podar, n. [Slav. gaspodin.] The title assumed by the princes of Moldavia and Wallachia, who are invested with the authority of the Ottoman Porte, whose lieutenants they are. The Porte also gives them a standard, and they are under her protection, and obliged to serve her. She can depose them at any time she likes; but in other respects they are esteemed as sovereigns in their own dominions. By the treaty between Russia and Turkey, in 1829, these officers were appointed to hold their appointment for life, and are obliged to pay a fixed annual tribute to the Porte. The present government of both the principalities of Moldavia and Wallachia is vested in one H. alone. In consequence of some difficulties which arose with Turkey in 1861-62, these principalities may be now deemed almost independent.

pendent.

[cost, n. [O. Fr. hoste; Fr. hote, from Lat. hospes, hospitis.]

One who entertains a stranger or guest at his own house
without reward; an innkeeper; a landlord;—opposed

to guest.
"Good mine hest o' the Garter, a word with you."

Host, n. [O. Fr. host; Norm. houst; Sp. hutste; L. Lat. hostis, an army, a camp, a warlike expedition, from Lat. hostis, an enemy, a foreign enemy in arms.] An enemy in arms; an army; a number of men organized into a

"A hoet so great as covered all the field."-Dryden Any great multitude; a myriad; a vast assemblage; as, a host of people.

" Hosperus, that led the starry host."-Milto

"Heperus, that led the starry host."—Milen.

If Lat. hostic, from hostic, to strike, as a victim.]

(Theol.) The consecrated bread or wafer used by the Roman Catholic Church in her celebration of the ucharist. It is unleavened, thin, flat, and of circular form, and has certain mystic signs impressed on its surface. The host is supposed after being blessed to be no longer bread and wine, but to be transformed into the real beity and bloud of Christ. (See ThATRIBESTANDE.) longer bread and wise, but to be transformed into the real body and blood of Christ. (See Transgustarmation). In all Catholic countries, the elevation of the host is a ceremony which is generally adopted at certain times and seasons, when the consecrated wafer is raised aloft and carried in procession through the churches and streets of the city, the people falling on their kness and worshipping it in its passage past them. This custom is said to have originated in the 12th century, when it was thought necessary to make this public and conspicuous declaration of the eucharist, on the occasion of Berengarius (q. v.) promulgating his opinions against transgubantiation.

Host, in Pransguegaria. a post-office of Berks co.

against transubstantiation.

Host, in Pennsylvania, a post-office of Berks co.

Hostage, (host dij), m. [O. Fr.; Fr. otage; L. Lat. hostagius, from Lat. hostia, an enemy, because hostages were exacted from a conquered enemy.] A pledge or surety, — particularly, a person to an enemy or hostile power, as a pledge to secure the performance of certain conditions or stipulations, as of a treaty.

Hoste, (or'a.) an island of Terra del Fuego; Lat. 55° 40' S. Lon. 65° W.; area, abt. 4,500 sq. m.

Hostel', Hostelry, m. An Inn; a tavern; a place of entertainment and rest for travellers. (o.)

Hos'teller, a. The keeper of a hostelry or inn; a

Host'teller, n. The keeper of a hostelry or inn; a landlord; a host. (o.)
Host'ess, n. A female host; a woman who receives and entertains guests; a cateress for travellers; a woman who keeps an inn; a landlady.

"He chuck'd the buxom hostess 'neath the chin, and buss,' hor."

Host'easship, n. Character or vocation of a hostes.
Hos'tile, a. [Fr.; Lat. hostilis, from hostis, enemy.]
Belonging to a public enemy; designating enemity,—
particularly public antagonism, or a state of war; warlike; inimical; contrary; adverse; unfriendly; repugnant; as, a hostile army, a hostile nation, hostile inten-

tions or preparations.

How'filely, adv. In a hostile or adverse manner.

Hostil'ity, m. State or quality of being hostile; state of war between nations or states; public or private enmity or antagonism; animosity; opposition; repugnance.—Act of an open enemy; hostile attack; warlike deed; — used generally in the plural.

We have carried on even our hostilities with humanity." Atte

"We have carried on even our necessaries with anamany. Assertion.—

A review; a muster or assembly of troops.

Hostler, (drler, in [0, Fr. hostelier; Fr. hostelier, from hotel, a palace, an inn, from Lat. hospes, hospitis, an entertainer of guests.] Originally, an innkeeper who formerly attended to the care of his guests' horses;—in the modern sense, a man employed to take charge of horses at an inn; a stable-man; a helper; a groom. (Sometimes written nealer.)

at an inn; a stable-man; a helper; a groom. (Sometimes written oxider.)

Hoat'ry, n. [Sp. hosteria. See Host.] A hostel; an inn.— A stable for horses. (a.)

Hot, a. [A. S. hat. See Hear.] Having a high degree of sensible heat; very warm; burning; flery; ardent; glowing; — opposed to cold; as. a hot fire, a hot dinner, hot water, &c. — Possessing the characteristics of heat; ardent in temper; easily excited or incensed; vehement; highly vehement; violent; eager; furious; a, hot blood, a hot temper, a hot engagement.

"Actilize is impaired. hot regragation."—Draden.

"Achilles is impatient, hot, revengeful."—Dr

Listful; lewd; lascivious; lecherous; amorous.—Acrid; piquant; pungent; poignant; biting; stimulating; as, hot as pepper.

Het'-bed, n. (Gardening.) A garden-bed of earth and horse-dung, covered with glass (Fig. 1323) to produce

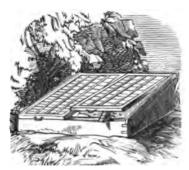


Fig. 1823, --- HOT-BED.

and promote warmth, for rearing tender plants. Hence any place which favors forced growth or precocious development; as, a hot-bed of sedition.

Het Blast, n. When the stream of air forced through a furnace is heated to 500° or 600°, it is called a H. B. The combustible gases from the stack are generally used to heat the air. For this purpose a kind of oven is built near the top of the stack, surmounted by a kind of chimney which draws off a portion of the inflaned gas. In this oven is a series of pipes through which the air is forced before it enters the stack. The H. B. effects a saving of heat, and accomplishes the reduction of the most refractory ores in less time and with a less expenditure of fuel than the cold blast. As the fusing metal is brought in contact with less fuel, and as less air is passed through the furnace, the chemical reactions are probably somewhat modified, but it is thought the quality of the product is not injured.

Host-blooded, a. Having hot blood; ardent; impetuous; highly excitable in temper or disposition; highspirited; irritable; cholertc.

"Now the hot-blooded gods assist me! remember, Jove, ti wast a bull for thy Europa,"--Shake.

wast a ball for the Europa."—Sakaze.

Hot'-braimed, a. Vehement: rash; precipitate; impulsive; ardent in temper.

Hotch'kins' Shot, n. (Gun.) See Shor.

Hotch'kinsville, in Connecticut, a post-village of Litchfield oo, about 42 m. W. by S. of Hartford.

Hotch'pot, Hotch'potch, n. [Fr. hochepot—probably from hocher, to shake, and pot, a pot or dish; D. hutspot, from hutselen, to jumble together.] A mixture of various things shaken together in the same pot; a medley: a jumble; a hodge-nodge: a not-nourri: an ola medley; a jumble; a hodge-podge; a pot-pourri; an olla podrida.

poorida.

(Lew.) The blending and mixing property belonging to different persons, in order to divide it equally.

Hot'-cockies, (\*\*dok\*!\*\*t), n. [Eng. hot and cock!e.] (Games.) A pastime of children, in which one covers his eyes and guesses who strikes him.

## " As at hot-cockies once I laid me down."-Gos

Hetel, (0-t2t'), n. [O. Fr. hostel: Fr. hotel, from Lat. hospitalis, aguest; hospitalis, quest-chambers.] A superior house of public entertainment for travellers or temporary sojourners; an inn.—In France, the palace or town-house of a nobleman, or person of high rank or great wealth; as, the Hötel de Suynes. In another sense it is userly synonymous with the term hospital, and is applied to buildings set apart for the reception of sick and infirm paupers; as, the Hötel-Dieu, Hötel des Invalides.

valides. **Hôtel-de-Ville**, (o-ll'dd-vel.) n. In France, a city-hall; a town-hall; a building forming the head-quarters of a municipal body or corporation; as, the *Hôtel-de-ville de Puris* (Fig. 1000). **Hôtel-Dieu**, (o-ld-de-ū',) n. In France, the name given to a headtal.

to a hospital.

to a hospital.

Hot'-flue, n. A room heated by hot-air pipes, in which printed calicoes are dried.

Hot'-headed, a. Of ardent or impetuous passions; impulsive; vehement; rash; hair-brained: violent; as, "hot-headed, hair-brained coxcomb."—Arbuthnot.

Hot'-heanse, n. (Gardening.) A building constructed in a garden, or elsewhere, and warmed by artificial means, for the purpose of rearing exotics and other tender plants, which require more heat than our climate affords. Mr. Loudon, in his "Encyclopedia of Gardening." observes, —"The imitation of warm climates by hot-houses must not be confounded with the art of forcing the vegetables of temperate climates into the premature production of their flowers and fruits. The former was the first object for which hot-houses were erected; and conservatories, green-houses, and plantstoves existed before any description of forcing-houses; even pineries are of subsequent introduction to botanic and ornamental hot-houses. The various climates and constitutions of nants require atmospheres of different even pineries are of subsequent introduction to botanic and ornamental hot houses. The various climates and constitutions of plants require atmospheres of different degrees of temperature and moisture." The three great principles on which the construction of hot-houses naturally depends, are hat, maintained, with the dight. With regard to the first consideration, heat, the structure must provide enough of this article to raise the internal Hot temperal vixen.

A kind of pea that comes early to maturity. Hot manageable, Hot-leady; rash; violent; unmanageable.

Hot spured, (-spird, ) a. Heady; rash; violent; unmanageable.

ble; choleric; of a fiery, wrathful temper; as, a hot-tempered vixen.

Hot spured, (-spird, ) a. Heady; rash; violent; unmanageable.

Hot spured, (-spird, ) a. Heady; rash; violent; unmanageable.

Hot-tempered, a. Hot-blooded: irascible; irritable; obleric; of a fiery, wrathful temper; as, a hot-tempered vixen.

Hot spured, (-spird, ) a. Heady; rash; violent; unmanageable.

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temperature of the building from that of the lowest de-gree of the exterior atmosphere of this climate to that of the highest which prevails for any length of time in the country of which the plants to be introduced are natives. Moisture, to arrive at our second consideration, is more difficult to maintain in the hot-house than heat, is more difficult to maintain in the hot-house than heat, and it is vitally necessary to the plants that an adequate supply of it should at all times be present in the atmosphere of the building. It follows, therefore, that that mode of heating is best which admits of the greatest quantity of vapor remaining uncondensed in the atmosphere of the hot-house. Thirdly, light cannot be admitted too copiously into these structures, and the transparent medium through which it enters should be such as reflects the greatest proportion of the sun's rays, which impinge obliquely on its surface. Hot water has now superseded the old method of heating by dry fuses and by this improvement the distribution of heat has now superseded the old method of heating by dry flues, and by this improvement the distribution of heat can be better regulated, and the uniformity of tempera-ture better maintained, than by any other means. Ven-tilation should also be provided for in hot-houses, that it may be sufficiently effective in preventing excess of



Fig. 1324. — ROT-HOUSE.

heat, while, at the same time, it is perfectly at command, so as to be employed, when requisite, in the most limited

degree.

Hot'-livered, (-liv'erd,) a. Of an excitable, irascible, or choleric temperament; as, a hot-livered man.

Hot'ly, adv. With heat; ardently; impetuously; vehemently; violently; as, the election was hotly contested.— Lustfully; salaciously.

Hot'-monthed, a. Headstrong; ungovernable; in-

Hot'ness, n. State of being hot or heated; sensible heat beyond a moderate degree of warmth.— Heat of the temper or disposition; vehemence; choler; violence;

the temper or disposition; vehemence; choler; riolence; fury.

Hos'-press, v. a. To press between hot plates, &c., in order to impart a smooth, glossy surface; as, to hot-press paper, cloth, &c.

Hos'-pressed, (-prèst,) a. Pressed while undergoing the application of heat, for the purpose of imparting a smooth and shining surface; as, hot-pressed paper.

Hos'-pressing, n. (Printing.) A method of giving a glossy appearance to printed paper. The sheets are placed between glazed or milled boards to a thickness together of about 5 inches and laid on two cold iron placed between grazed or milled boards to a thickness together of about 5 inches, and laid on two cold iron plates at the bottom of an hydraulic or screw press, then a cold plate, a hot plate, another cold plate, a further supply of sheets between glazed boards, and so on till the press is full. The latter is then pumped up, or screwed down with a powerful lever, and left for a short time.

Hot'-short, a. More or less brittle while in a h

state: ns. hot-short iron.

Hot Shot, n. (Gunnery.) Common shot heated in a furnace, and fired against shipping and other combustible material. When shot are heated, it is necessary to reduce the charge of powder.

Hot'-spirited, a. High-spirited; flery; impetuous

Hot'spirited, a. Iligh-spirited; fiery; impetuous; cholerfc.

Hot Springs, in Arkansza, a S.W. central county; crea, about 628 sq. m. Ricers. Saline and Washita rivers, besides some smaller streams. Surface, diversified; sod, fertile. Mis. Magnetic iron in such abundance, it is said that some districts cannot be surveyed with a compass. There are also numerous springs in this county, and large quarries of oil-stone have been opened. Cap. Malvern. Pop. (1890) 11,603.

Hot Springs, in Arkanssa, a city, cap. of Garland co., 56 m. W.S.W. of Little Rock, on the Hot Springs R. R. Celebrated for its wonderful curstive springs; has some manufactures. Pop. (1897) about 8,309.

Hot Springs, in South Dubota, a post-village, cap. of Fall River co., in the Black Hills, on two railroad lines. Here is a Soldiers' Home. Pop. (1895) 1,642.

Hot Springs, in Virginia, a post-village of Bath co., about 175 m. W. N.W. of Richmond.

Hot'spur, a. Vehement; fiery; irascible; rashly impulsive.

impulses.

-a. A rash, violent, precipitate, ungovernable man, who acts as if urging on his steed with flery spurs.

-A kind of pea that comes early to maturity.

Hot'spurred, .spard, a. Heady ; reach; violent; unmanageable.

Hot blooded i pracible, institute.

of S. Africa, the original inhabitants of the territory now occupied by the British colony of the Cape of Good Hope. This country extends eastward along the seconst to the territory of the Kaffira, and is bounded N. by the Orange River, which separates them from the Bechuanas and Damaras. The people call themselves Quiquae. Neither in color nor general aspect do the H. resemble the dark races around them. Their complexion is sallow, and much like that of a very dark person suffering from the jaundice. Indeed, the complexion of the H much resembles that of the Chinese, and the general similarity between them is very remarkable. The person of the H., when young, is remarkable for its symmetry. The joints and extremities are small, and the males look almost as effeninate as the women (Fig. 1326.) The face, however, is in general extremely ugly, symmetry. The joints and extremities are small, and the males look almost as effentinate as the women (Fig. 1326.) The face, however, is in general extremely agly, and with age this agliness increases. Bir John Barrow, in describing the Hottentot women, observes of them that before child-bearing they are models of proportion, every joint and limb rounded and well turned, their hands and feet small and delicate, and their gait by no means deficient in grace. "Their charms, however, are very feeting. At an early period of life, and immediately after the first child, their breasts begin to grow loose and flaccid, and as old age approaches, become distended to an enormous size; the belly protrudes; and the hinder part swelling out to incredible dimensions, give to the spine a degree of curvature inwards that makes it appear as if the os coccepts, or bone at the lower extremity of the spine, was elongated and bent outwards, which is not the case." The appearance of the Bosjeemans (q. v.), who are the most degraded tribe of the H, is still more revolting. The language of the H, is at the chick language," and has also best compared to the

compared to the clucking of a hen when she has laid an egg. The H. live in kraals or villages, consisting of a number of including the consistency of the consistency of a number of including the consistency o ber of circular huts like bee-hives. They have both oxen and sheep, in the man-agement of which they show great skill. They are also addicted to the chase, in which they chase, in which they use poisoned arrows, javelins, and spears. Of religion there appears to be but very little notion among the H, and they have no particular observances at althor births. ces at either births,



and they have no particular observances at either births, marriages, or funerals. Dr. Prichard, however, observes of them: "Although Fig. 1325.—YOUNG HOTTENTOT. The wild tribes of the H: race display ferocity and all the other vices of savage life, yet we have abundant proof that these people are not insusceptible of the blessings of civilization and Christianity. No uncultivated people appear to have received the instructions of the Moravian missionaries more readily than the H., or to have been more fully reclaimed and Christianized." Capt. Wilkes of the U. S. exploring expedition, who visited Cape Town in 1842, says, "that in the Colony the H do not bear a very high character for honesty and faithfulness. They are deemed an improvident race, though there are some instances of their showing great attachment to individuals who have treated them well." Their number is variously stated from 10,000 to 30,000.

Hot'tentots' Bread, n. (Bnt.) See Tahus.
Hotle'mia, n. [In honor of Fiter Hotton, professor at the University of Leyden, p. 1709.] (Bot.) A genus of plants, order Primulacez. They are fleshy, aquatic perennial herbs, with pectinate-pinnatifid, submersed, radical leaves. H. inflata, the Water-Feather, is found in swamps and stagnant waters along the Atlantic States, from Massachusetts to Forida.

Hot'-wall, n. (Gardening.) A wall for the growth of fruit-trees, which is built with a flue or other contrivance for being heated in severe weather, so as to facilitate the ripening of the wood or the maturation of the fruit. The most common form of H is that in which flues or tunnels are conducted through them, into which the smoke and heated air from fires are formed by constructing the entire wall hollow, tring the two sides together by cross-stones or bricks, and introducing heat by means of metal pipes containing steam or hot water along the bottom of the vacuity, the heat of which rises to the top of the wall, and heats every part in its progress.

Hot'-well, n. (Mach.) The reservoir for the water pumped out o

pumped out of the concenser of a susan august of mair-pump.

Hou'dah, n. See Howdah.

Houdon, (hor'dawng.) a French sculptor, n. at Versailles, 1741, when, after studying in Italy, he returned to Paris, and executed the busts of Voltaire, Boussean Molière, Franklin, Buffon, Catharine II., &c. He became, in 1778, member and professor of the Academy of Fine Arts. He was invited to America to carva the status

Digitized by GOOGLO

of Washington, which now stands in the State House at Richmond, and is the most authentic likeness of our great statesman. H. died at Paris, 1828.

Rough, (\(\nu \kappa \), (\(\nu \kappa \), \(\nu \kappa \), (\(\nu \kappa \), \(\nu \kappa \), (\(\nu \kappa \), \(\nu \kappa \kappa \), \(\nu \kappa \kappa \), \(\nu \kappa \kappa \kappa \), \(\nu \kappa \k

-v. a. To hamstring; to cut the sinews of the ham.

Hough'ite, n. (Fin.) Hydrotalcite (q. v.), from St.

Lawrence county, N. Y., formed from the alteration of spinel.

spinel.

Hough'tom, in Iowa, a post-office of Lee co.

Houghton (ho'lon), in Michiyan, a N.W. co. of the upper peninaula, washed on the E. and N.W. sides by Lake Michigan; area, about 1,000 sq. m. Rivers. Sturgeon river, and numerous smaller streams. The N.E. coast is deeply indented by Kewcenaw Bay. Surface, uneven; soil, fertile. Mis. Silver, copper and iron. Cip. Houghton. Pop. (1894) 44,174.

—A mining town, cap. of above county, on Portage Lake, with ship canal to Lake Superior, I m. from Hancock. Has 2 R.R. lines; here are rich copper mines. Pop. (1894) 2,178.

Has 2 R.R. (1894) 2,178.

Houghton, in New York, a post-village of Allegany co. Hough'ton ville, in Vermont, a post-office of Wind-

House tonyline, in Vermont, a post-ome of Windham co.

Houlton (kGVon), in Maise, a post-town and township, cap. of Aroustook co., about 190 m. N.E. of Augusta. Pop. (1897) about 4,120.

Houma (kov'ssc), in Louisiana, a post-town, cap. of Terre Bonne parish, on Bayou Terre Bonne, and 80. Pac. R.B., 70 m. W.S.W. of New Orleans. Pop. (1890) 1,230.

Hound, n. [A. S., Ger., D., and Swed. hund; Dan. hond; Goth. hunds; Esth. hund, a wolf; Lat. canis; Gr. kvon; W. cwn; Chin. kiunn, a dog.] Originally, a generic name for dogs, now applied to a dog employed in hunting or in the chase, and which effects its object by the sense of smell; as, a fox-hound, a stag-hound, a blood-hound, a greyhound, q. v. under their different names. The characteristic of a hound is its long pendulous ears.

—pl. In England, a term generally used as a contraction for fox-hounds; as, a pack of hounds, to ride to hounds, a master of hounds, &c.

—pl. (Naul.) The projecting parts of the sides of a mast, near its head, which, like shoulders, support the tope or treatle-trees.

tops or trestle-trees.

-b. a. To set on in chase; to urge to pursuit of game or

prey, as a hound.

-v. a. To set on in chase; to urge to pursuit of game or prey, as a hound. — To chase; to hunt; to pursue; as, "wolves hounded by tigers." — L'Estrange. — To harry; to egg on, or incite; to urge on, as by hounds: to compel to action by persistent demands; as, to hound a man on to the gallows.

Hound'-fish, a. (Zoil.) The Dog-rish, q. v.

Hounds'field, in New York, a township of Jefferson co.

Hound's-tougue, s. (Bot.) See Cynoglossum.
Houns'low, a town of England, in Middlesex, on the Coine, on the verge of the celebrated Hounslow Heath, 9 m. of London;
Hour, (our.) s. [L. Sax. hure; Ger. uhr; Fr. heure;
Lat. hora; W. auer; Gr. höra, any limited time or period.] The twenty-fourth part of the space of time that elapses between two successive periods of midnight or midday, or the time during which the earth completes an entire revolution about its axis, and in which a complete annernt revolution of the aun through the pletes an entire revolution about its axis, and in which a complete apparent revolution of the sun through the heavens is effected. An hour, in angular measurement, is equivalent to 15 degrees of space, being the twenty-fourth part of 360 degrees. The hour is subdivided into 60 minutes in time, and each minute into 10 seconds In this and most European countries the day is reckoned from midnight to midday 12 hours, and midday to midnight 12 hours. In Italy the day is reckoned from sunset to sunset, and the hours are counted from 1 to 24. The Chinese reckon from an hour (in our time) before midnight till the corresponding time next night 12 The Chinese reckon from an hour (in our time) before midnight till the corresponding time next night 12 hours, each hour being equal to two of ours. The Japanese still follow the old custom of reckoning from sunrise till sunset. Astronomers reckon from midday (on the previous day) to midday, counting from 1 to 24. The time marked or indicated by a chronometer, clock, or watch; the particular time of the day; as, what is the hour?—Fixed, appointed, or specified time; time or occasion; conjunctures critical period of time.

une nour! — Fixed, appointed, or specified time; time or occasion; conjuncture; critical period of time.

-pl. (Eccl. Hist.) See Canonical Houss.

-pl. (Myth.) See Hous.

To keep good hours, to be at home betimes; to return home in good season; not to be abroad late; to dispense with a latch-key.

"Our neighbour let her floor to a genteelman, who k

Hour'-angle, n. (Astron.) The angle at the pole, between the celestial meridian and the circle of declination passing through the place of the body.

Hour'-circle, a. (Astron.) The meridian of any place, or any great circle of the globe passing through the poles, is so called, because the hour of the day at any place can be ascertained, when the great circle on which the sun happens to be at that time is known.

Hour's lamp, a. A species of chronometer or clepsydra, measuring intervals of time by the running of water or eand from one glass into another. The quantity of sand is so proportioned as to measure different spaces of time, is so proportioned as to measure different spaces of time, as an hour, half-hour, quarter, or minute; the last-mentioned being generally used at sea when "heaving the log," to ascertain the speed of the ship.

Hour'-hand, a. The hand which serves to index the hour on a chronometer, clock, &c.

Hour'nt, a. [Pers. Adrd, from Ar. Air al oyân, black-eyed.] The name given by Europeaus to nymphs of the Mohammedan paradise, whose company is to form the

chief felicity of all true believers. From the description given in the book on which the Muhammedan faith is enter tencity of all true orderers. From the description given in the book on which the Mohammedan faith is grounded, it appears that the hours surpass both pearls and rubles in their datasting beauty: they are subject to no impurity; are always represented with dark eyes concealed by long jet eyelashes, the languishing glances of which they reserve for the voluptious enjoyment of "true believers" alone. They are not created of clay, like mortal women, but of pure musk, and are endowed with immortal youth, and every intellectual and corporeal charm. They dwell in green gardens, which are beautiful beyond what imagination can conceive, and they are always reclining on green cushions placed in fragrant bowers, where they await the advent of their possessors into paradise. The name houris is derived from the Arabic hâr al oyân, signifying black-eyed. Mahomet omitted nothing to render his heaven enjoyable to his disciples; and here he followed the traditions of the Hindoo religion, among which there is one concerning the paradise, called behisht and mesou, which was furnished with hurani behisht, or black-eyed nymphs, endowed with similar attractions to those which the houris possess.

hour's possess.

Hour'-line, n. (Astron.) A line denoting the hour

Hour'-line, n. (Astron.) A line denoting the hour; hour-circle.

Hour'ly, a. Occurring or performed every hour; often repeated; frequent; continual.

-ads. Every hour; continually; frequently

Hour'-plate, n. The dial or plate of a clock, chronometer, &c., on which the hours are indicated by inscription.

Housaton'(c., in Massachusta, a post-village of Berkshire on about 120 m. S.W. of Easten.

Houseton'ie, in Massachusetts, a post-village of Berkshire co., about 120 m. S.W. of Boston.

Houseton'ic, a river which rises in Berkshire co., Massachusetts, and entering Connecticut in Litchfield co., continues a general S., S.E., and S. course to Long Lsiand Sound, which it falls into between New Haven and Fairfield cos. Longth, about 150 m.

House, n. [A.S., O. Sax., O.M.H. Ger., O. Fris., and Icel. hus; Ger. haus; D. huis; Dan. huus; allied to Lat. casa, and Ar. kdsa, to cover.] A building or edifice for the labitation of man; a dwelling-place, mansion, or abode for any of the human species; also a covering or shelter for animals of whatsoever kind.—The first form of the house, considered generally as a dwelling, may ter for animals of whatsoever kind. — The first form of the house, considered generally as a dwelling, may be found in the conical huts and wigwams constructed by uncivilized nations. These consist chiefly of a simple framework of sticks, tied tightly together at the top, and covered with various materials, in accordance with the climate of the country in which they are erected. When implements and tools fit for hewing and shaping timber, and working stone, had been brought into use, and men had attained a degree of semi-civilization, the buildings that they reased were most notably somewhat similar had attained a degree of semi-civilization, the buildings that they reared were most probably somewhat similar to the rude blockhouses formed by settlers in the woods, from which the transition to more durable abodes, built of brick and stone, but still of one story only in height, and covered with thatch supported on an inclined framework, would be rapid. The houses of the ancient Egyptians, and those of all Eastern nations, in the early ages of the world, consisted of a series of continuous anartments opening into a central court, that tiguous spartments opening into a central court, that was frequently adorned with shrubs and a fountain in the centre (Fig. 1826), and always separated from the



Fig. 1326. - AN ANCIENT JEWISH HOUSE.

street by a high blank wall with a single door in it. for the purpose of affording the means of ingress and egrees to the inmates. The walls were built of anudried bricks plastered over with stucco; the windows were small, the heat, rain, and wind being excluded by wooden shutters that moved on hinges; the floors were paved with stone, or formed of cement; and the roof, which was often used as a terrace on which the occupants of the building were accustomed to sit and walk in the cool of the morning and evening, and even sleep during the sultry nights of summer, was flat, being formed of tiles and earth, supported on beams of timber, and of sufficient thickness to prevent the entrance of the rain. When the house was two stories in height, the inper mona were used as sitting-rooms and bedrooms, while the lower ones served as receptacles for street by a high blank wall with a single door in it

grain and stores. The houses of the Greeks and Romans were built on a similar plan. In Greece, the dwelling-house was situated at the lower end of a court, which house was situated at the lower end or a court, which was entered from the street through a passage, on either side of which were stables and offices. It was generally two stories in height, the women occupying the upper rooms, and the men those on the ground-floor. On this floor large chambers were also formed, one of which served as a work-room for the female part of the house-room and the stable of the court of the stable of the served as a work-room for the female part of the household, and the other as a common dining-hall. Round this hall, and opening into it, were apartments which were devoted to the accommodation of guests and strangers. The general arrangement of the houses of the Romans is described under Houss, Roman, q. v. The method of construction adopted by the Greeks and Romans, the main feature of which was a central court with chambers opening into it on every aide, was followed, with a few modifications, in all European countries during the Middle Ages. Entrance into an inner quadrangle was afforded by a large arched gateway in one of the sides; the pariors, kitchens, and living-rooms being placed round this square court on the ground floor, and the sleeping-rooms on the floor above, all opening into a cloister, or gallery. an inner quadrangie was afforded by a large arcned gateway in one of the sides; the pariors, kitchena, and living-rooms being placed round this square court on the ground filor, and the sleeping-rooms on the floor above, all opening into a cloister, or gallery. In the houses of the mediaval period, the walls of the basement story were strongly built, to afford protection to the inmates against the attacks of robbers and personal foes. The shop and store-rooms, and sometimes the stables of the owner of the house, were to be found on this floor. The principal apartments were situated on the floor immediately above, to which access was gained by a small winding staircase, lighted by narrow windows in the wall, which could be defended by a single resolute awordsman against a score of hostile visitants. In France, Scotland, and Belgium, the houses were often many stories in height, and of great size. The roofs were high and steep, and a picturesque character was given to many of these old buildings by the peaked gables, which were often richly adorned by carved woodwork (Fig. 1124). Another peculiar feature in mediaval houses was the projection of one floor over that which was immediately below it; so that in a street in which the houses were of considerable height, the upper stories of the buildings on either side were only a few feet apart. There were no ceilings; the floors were generally dirty, even in houses that were occupied by the nobility and the higher classes; and the rooms were dark, the light being admitted through pieces of horn, or small dismond-shaped panes of ill-made glass, defective in transparency, and commonly of a greenish hue. Although the houses of Italy, Holland, Belgium, Flanders, and France, that were built during the 12th and 13th centuries, are frequently marked by great architectural beauty externally, yet little improvement was made in domestic architecture in England, especially in the interior arrangements, until the reign of Elizabeth, when the architecture of the day began to const pants in every respect. Practical details respecting house-building and matters in immediate connection with it, are given elsewhere.—See Building, Brick-WORK AC.

1543

A temple; a church; a monastery; as, a religious house. -A household; a family circle.

" I am all the daughters of my father's Acuse." -

"I am all the daughters of my father's house."—Baks.

—Manner of living; household affairs; domestic routine; concerns of housekeeping; regulation of the table; as, he keeps a good house, they have set up house together.

—A family of ancestors, descendants, and kindred; a tribe; a clan; a race of persons from the same stock; lineage; as, the house of Brandenburg.—A body of men united in their legislative capacity; one of the estates or political bodies of a kingdom or state assembled in parliament, congress, diet, or any legislative session; as, the House of Commons, House of Representatives, the upper house, lower house, &c.

(Gamez.) In chess, a square on the board, looked upon as the rightful place of a piece.

—A house of public entertainment; an hotel; an inn; as, the Girard House, Philadelphia.

(Astrol.) The station of a planet in the heavens.

(Astrol.) The station of a planet in the heavens.

(fbm.) A firm; a commercial establishment; a mercantile or business concorn; as, the house of Rothschild,

cantile or business concorn; as, the house of Rothschild, Sons & Co.

House of call, a tavern, or other house of public resort, where operatives assemble when unemployed, ready for any call upon their services: — hence, in England, a drinking-saloon, tavern, or gin-palace, frequented by its own set of customers.

House of correction, a prison; a jail; a house of detention. — House of God, a temple, church, or other ascred edifice. — To bring down the house, to elicit a general hurricane of applause from an auditory in a theatre or other place of popular entertainment; as, Garrick, in "Bichard," brought down the house.

G00

weather: house cattle.

" Wit . . . like orange-trees . . . hous'd from one To drive to a shelter or place of refuge. — To harbor

" More cottogers are but hous'd beggars." - 3

To place in and cover up, as in the grave.

"He . . . now is hous'd in his sepulchre." — Sandys

v. n. To take lodgings; to occupy a place of shelter to dwell; to reside; to take up one's abode; as, to house

" To house with darkness and with death. To have an astrological station in the heavens.

House'-boat, s. (Naut.) A boat covered with an

"To have an astrological station in the heavens.

Hense'-beat, n. (Nant.) A boat covered with an awning.

House'-breaker, (brdk'r,) n. One who breaks into a house by day for the purpose of robbery, or with other felonious intent; a burglar, (when entering by night.)

House'-breaking, n. Act of, or forcibly entering a person's house with intent to plunder; when the offence is committed at night, it is termed burglary.

House Creek, in Georgia, a village of Wilcox co.

House'-dog, n. A watch-dog; a dog kept to guard one's house or premises.

House'-ful, a. As much as a house will hold.

House'-ful, a. As much as a house will hold.

House'-ful, a. As much as a house will hold.

House'-holder, n. The master or chief of a household or family; one who keeps house with his family.

House'-holder, n. The best flour made from redwheat, with a small portion of white-wheat mixed.

House'-hold-stuff, n. The furniture of a house; the vessels, utensils, and goods of a family.

House'-hold-stuff, n. The family state in a dwelling; care of domestic concerns, —a. Domestic; useful to a family.

House'-leek, n. (Bot.) See Sampenvivum.

House'-leek, n. A female servant employed to keep a house clean, &c.

House et Commons, House of Lords. See

wheat, with a small portion of white-wheat mixed.

House Table-Statell, a. The formiture of a house with the family, a householder. A female servant who has the chief care of the family.

House Keeper, a. One who occupies a house with his family, a householder. A female servant who has the chief care of the family.

House flees and the family state in a dwelling of the family of the family.

House flees, a. [Bottlee Stateranyvux.]

House flees, a. [Bottlee A mail cord made of three small yarm, and used for seitings.

Heuse flaes, a. [Maxil A mail cord made of three small yarm, and used for seitings.

Heuse flaes, a. [Maxil A mail cord made of three small yarm, and used for seitings.

Heuse flaes, a. [As the flaes of Lordel. See Pallarent.]

House of Commons, Heuse of Lordel. See Pallarent.

House of Commons, Heuse of Lordel. See Pallarent.

House, [Rousen, [Rousen, [Rousen, [Rousen, [Rousen, [Rousen, [Rousen, [Rousen, [Rousen, [Rousen] in rever present in the late days of the poorer classes in Rome were extremely simple in structure, and plain in appearance. It is said that they were not more than a single story in height; and an old drawing high the common should be a striking contrast to the house of the poorer classes in Rome were extremely simple in structure, and plain in appearance. It is said that they were not more than a single story in height; and an old drawing high the seed of the poorer disease in Rouse of Lordel, See Pallarent.

House, [Rousen, House clean, &c.

House of Commons, House of Lords. See Palliamns.

House of Commons, House of Lords. See Palliamns.

House of Correction. See Palliamns.

House of Correction. See Palliamns.

House of Representatives. See Congress.

House, (Ro'mans,) n. (Arch.) The houses of the poorer classes in Rome were extremely simple in structure, and plain in appearance. It is said that they were exactly the same in every respect in the later days of the empire as they were when the republic was established. They were built of earth and unbaked bricks, and were thatched with straw or reeds. They were not more than a single story in height; and an old drawing of a Roman cottage, a copy of which is given in Masois Ruines de Puspéi, represents them as being circular in form, with a wide doorway in front, and an overhanging roof not unlike a mushroom in shape. The houses of the wealthy Romans, which were built of marble, and richly adorned with paintings and sculpture, exhibited a striking contrast to the hovels of the poorer citizens—pauperum tabernas, as they are termed by Horace. Their general plan and character may be gathered from the houses that were discovered when excavations were made in 1755, and subsequent years, on the site of the buried city of Pompeii, which was destroyed by an eruption of Mt. Vesuvius in the year 79. A description of that which is known as the house of Pansa, which is more perfect than any other which has yet been cleared of the superincumbent mass of ashes and scories, will serve to furnish some idea of the manner in which the best houses of Rome were constructed. That part of the house which faces the street is divided into a number of small shops of two stories in height, as it is supposed which were let out for different nursons.

Hems'ing, n. [Fr. Acusse, a horse-cloth.] A horse-cloth an ornamental covering for a horse; a saddle-cloth.—pl. The trapping of a horse.

(Arch.) The space taken out of one solid to admit the insertion of another.

(Nosd.) A Houseling (g. v.).

Hems'sa, Haus'sa, a former empire of Central Africa, bounded N. by the Sahara, E. by Borneo, S. by Nuū or Tappa, and W. by the Juliba. The people are negroes; and the Foolahs are the ruling race. Kareo, the chief town, is in Lat. 12° 0′ 19° N., Lon. 80° 30′ E. The country is well watered and cultivated. It comprises the present kingdoms of Sokoto and Gondo.

Houssaye (kä-så'), Asskn., a French author and art critic, born at Bruyères in 1815. After contending seven years against poverty, he became connected, in 1838, with the Revue de Paria, in which he commenced the publication of his Men and Women of the Eighteenth Publication of his Men and Women of the Eighteenth Published his History of Dutch and Flemish Published to the direction of the Théater Français, then at a very low ebb, into which he infused new life, and having in 1855 resigned the directorship, was succeeded by M. Empis. His most noted works were: Unitative dis Quarante-el-liviem Fausteil de l'Académia Française (1856); Le Roi Voltaire (1858); Histoire de Carante-el-liviem Fausteil de l'Académia Française (1860); Mademoiselle Cléopatre, and Blanche et Marguerite (1864). Died Feb. 25, 1896.

Heus'tom, Sam., general, governor, and ex-president of Texas, s. near Lexington, Bockbridge co., Va., 1793. His mother having settled in Blount co., Tennessea, 8 m from the Cherokee country, H. absconded, taking up his abode with the Indians, with whom he lived after their own fashion for about 3 years. In 1811 he abruptly returned to his family. In 1813, during the war against

i. a. To shelter; to cover, as from inclement to protect by placing under cover; as, to to protect by placing under cover; as, to tite.

Illie orange-trees ... hear's from snow."—Dryden. to a shelter or place of refuge. — To harbor: to residence.

To estagers are but hear's begars."—Becom. in and cover up, as in the grave.

Line or is hous's in his sepalates."—Sandye.

House'wifely, a. Pertaining to the mistrees of a family; economical; frugal; thrifty.

—n. A disease of sheep; wind colic.

Howe, a town of England, in Sussex, 1 m. from Brighton.

Howe, a bound of a family; female business in the economy of a family; female management of domestic concerns.

House'wifely, n. A builder of houses; an architect.

House's light or a horse of a mistrees of a family; female business in the economy of a family; female business of a mistrees of a mistre

weather.

—e. a. To put in a bovel; to shelter.

Hew'elling, n. A mode of preventing chimneys from smoking by carrying up two of the sides least expose to the current of air higher than the other two, or becovering the top and leaving the orifices on all the

where, s. s. [W. hofaso.] To flap the wings; to hang over or about, fluttering or flapping the wings; to hang over or around, with irregular motion.—To stand in

over or around, with irregular motion.—To stand in suspense or expectation: to wander about from place to place in the neighborhood.

He'vien, R. (Min.) A white, soft, crumbly mineral from Hove, near Brighton, England. Comp. Carlonic acid 444, carbonate of lime 283, water T. T. This compound is often called bicarbonate of lime.

How. (how.) adv. [A. 8. hu: Ger. wie: D. hoe: Dan.

How, (hou.) adv. [A. S. hu; Ger. wie; D. hoe; Dan. hoer; O. Slav. rako, from the Sansk. kas, kau, ku, who? which? what?] In what way, method, or manner; by

which: when what means.
"We wonder how the devil they got there are extent; by

To what degree, amount, or extent: by what quantity or measure; in what number or proportion.

"Alas! how light a cause may more Dissension between hearts that love." — Moore.

For what reason; from what cause.

"How now, my love? Why is your cheek so pale?

How chance the roses there do fade so fast?" — Si

In what state, condition, case, predicament, or plight. In what suare, communous, community of the on she "Lord help 'em, how I pities them unhappy folks on she Willies

Norr How is used alike in the interjectional relative and interrogative sense; it is also often used in a personal sense as an exclamation, interrogation, or interjection. w the wit brightens ! Now the style refines !"- !

"How the wit brightens! how the style refines !"— Pope.

Howardj, (how-dy'y), n. [A.r.] A traveller; also, a

merchant, in Oriental countries.

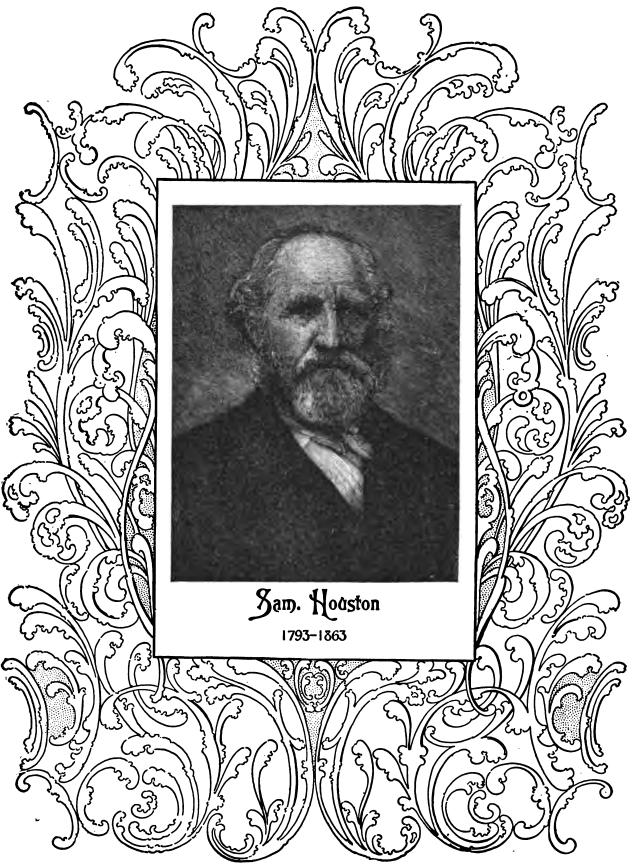
How ard, one of the eldest families of England. The
principal are: — THOMAS HOWAED, earl of Surrey, and
third duke of Norfolk, an eminent statesman and navia
and military commander, distinguished at the battle of
Flodden, 1488-1554. EDWARD, a younger brother of the
preceding, and admiral of England, killed in action
with the French, 1512. HENRY, earl of Surrey, eldest
son of Thomas, an accomplished chevaller, and the first
polite writer of love-verses in the English tongue, bewith the French, 1612. HENRY, earl of Surrey, edects on of Thomas, an accomplished chevalier, and the first politic writer of love-verses in the English tongue, beheaded on a trumpery charge of high treason, 1516-11546. Henry, second son of the poet, and earl of Northampton, known as a trimmer at court and as a man of letters, implicated in the murder of Overbury, 1539-1614. Charles, known as Lord Effingham and earl of Nottingham, and grandson of the duke of Norfolk, commander of the channel fieet on the invasion of England by the Spanish Armada, 1536-1624. Thomas, earl of Arundel, and earl marshal in the reign of Charles I., known as a diplomatist and antiquary, died 1646. Henry, his second son, and sixth duke of Norfolk, by whom the Arundelian marbles, collected by his father, were presented to the university of Oxford, about 1668. Charles, known as a statesman in opposition to Lord North and Pitt, 1746-1815.

eleventh duke of Norfolk, and formerly earl of Surrey, known as a statesman in opposition to Lord North and Pitt, 1746-1815.

How eard, Capherine, fifth wife of HenryVIII., B. about 1520, was the daughter of Edmund Howard, 3d son of the second duke of Norfolk. She was married, in 1540, to the king; but, two years afterwards, he sent her to the scaffold, under pretext of unfaithfulness.

Howard, John, an English philanthropist, B. at Hackney, 1726. In 1756 he embarked for Lisbon, in order to view the effects of the recent earthquake, but on the passage the ship was taken and carried to France. The hardships he suffered and witnessed during his imprisonment first roused his attention to the subject of his future labors. On being released, H. retired to a villa in the New Forest, and in 1758 he married a second wife, who died in childbed in 1765, leaving him one son. He at this time resided at Cardington, near Bedford, where he indulged the benevolence of his disposition by continually assisting and ameliorating the condition of the poor. In 1773 he served the office of sheriff, which, as he declared, "brought the distress of the prisoners more immediately under his notice," and led him to form the design of visiting the jails throughout England, in order to devise means for alleviating the miseries of the prisoners. Having done so, he laid the result of his inquiries before the House of Commons, for which he received a vote of thanks. He next made a tour through the principal parts of Europe, and published his State of the Prisons, with a view to render them both more humane and more efficacious. A new subject now engaged his attention, namely, the management of lasarettos, and the means of preventing the communication of the plague and other contagious diseases. In this he encountered every danger that can be conceived, and having become personally acquainted with the subject, in 1789 he published An Account of the Principal Lasarettos in Europe, with Pupers relative to the Plague," &c. Actively pursuing this sa fever prevailed there, and having been prompted by humanity to visit one of the sufferers, he caught the infection, and died, Jan. 20, 1796 His body was there

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the Name and overy respect was shown to his memory by the Rossian authorities. — Edmund Burks, adverting to the Rossian authorities. — Edmund Burks, adverting to the state of the carried and the compared of the carried of the carri

16,269.

How ard, in Michigan, a post-village of Montcain co., on the G. R. & I. R.R., 34 m. N.E. of Grand Rapida. Pop. (1894) 1,391.

How ard, in Missouri, a N. central co.; area, about 450 sq. m. Risers. Missouri river, and Bonne Femme and Moniteau creeks. Surface, undulating; soll, extremely fertile. Our Payette. Pop. (1890) 17,371.

How ard, in Montana, a post-office of Custer co.

How ard, in New York, a post-town and township of Steuben co., about 66 m. S. of the city of Bochester. Pop. (1890) 1,338.

How ard, in Obio, a flourishing post-township of Knox co.

Knox co.

How ard, in Pennsylvania, a post-borough and township of Centre co., about 10 m. N.E. of Bellefonte. Pop. (1897) about 600.

(1897) about 600.

\*\*Mew'ard, in Tana, a post-office of Ellis co.

\*\*How'ard, in Wisconsin, a township of Brown co.

-A post-village of Sheboygan co., about 7 m. N.W. of Sheboygan.

\*\*How'ard Centre, in Jose, a post-township of How-

ard co.

Hew'ard Lake, in Missa, a post-vill. of Wright co.

How'ardsville, in Illinois, a P. O. of Jo Daviese co.

—A village of Stephenson co., 208 m. N. of Springfield.

Hew'ardsville, in Merpland, a post-village of Baltimore co., on the West. Maryland R.R.

How'ardsville, in Mich, a p.-vill. of St. Joseph co.

the Greek govt., and established on the isthmus of Cornth a colony made up of Greek refugees, driven from their homes by the Turks, and remained in Greece until her independence was secured. The Greek govt. bestowed upon him the order of St. Sauveur. After visiting Switzerland, H. was in Paris during the revolution of July, 1830, and was one of the few who escorted La-Fayette across the barricaded streets to take possession of the Hotel-de-Ville, and put himself at the head of the revolutionary movement. After pursuing his medical studies in Paris, Dr. H. returned home in 1832. Becoming interested in the condition of the hilled he offered ing interested in the condition of the blind, he offered to organize and put in operation a habitation for their special instruction, a charter for which had already been to organize and put in operation a habitation for their special instruction, a charter for which had already been obtained, but no beginning made. After certain preliminaries he went to Europe to obtain teachers, also to carry supplies which had been raised here for the Poles, then in insurrection. While in Paris he was made President of the Polish Revolutionary Committee, and undertook the critical service (in which several had failed) of carrying supplies to the Polish corps d'armée which had crossed the Prussian frontier, but refused to lay down their arms. He succeeded in this; but was arrested and thrown into prison by the Prussian gov. After a brief detention, his liberation was effected by the U. States anthorities. Returning to Mass., he resumed the enterprise in behalf of the blind, gathering a half-dozen blind children into his father's house, and thus forming the germ of the Massachusetts Institution for the Education of the Blind, of which Dr. H. has ever since been the director. His labors have become known throughout the civilized world, through his success in imparting the elements of language to Laura Bridgeman, a blind deaf muta, the first person of that class

known to have acquired the free use of words. Equal success crowned his efforts to teach other blind deaf-mutes. Dr. H. so modified and improved the existing mode of printing for the blind as to make it really available and useful. His method was pronounced the best by the elaborate report of the jury of the British Great Exhibition in 1881, and he received a medal, as also another at the Art Exhibition of Paris in 1867. Partly as another at the Art Exhibition of Paris in 1837. Parity as an acknowledgment of services to humanity, and parily, perhaps, as an atonement for wrong done him, the king of Prussia sent him a costly gold medal. When the Cretan revolt broke out, Dr. H. appealed to the sympathies of his countrymen in behalf of those islanders. pathles of his countrymen in behalf of those islanders. A system of contributions was organized, and Dr. H. revisited Greece after an interval of 40 years, as the almoner of America, and, as before, he carefully superintended in person the distribution of the supplies. Dr. H. was the first person in this country who demonstrated the educability of idiots by systematically training several blind idiotic children. He subsequently organized the first public institution for the training of this class of unfortunates. He labored during 20 years to introduce articulate speech into the education of deaf-mutes. The recent adoption of this measure under the sanction of the commonwealth is principally due to his exertions in its behalf. D. 1878.

the sanction of the commonwealth is principally due to his exertions in its behalf. D. 1876.

How'el, m. A smoothing-tool used by coopers.

—r. a. To make smooth by tooling: as, to hosed a cask.

How'ell, in Michigan, a post-village and township, cap. of Livingston county, about 33 miles E.S.E. of Lansing. Pop. of village (1894) 2,560.

Howell, in Michigan, a Scounty, adjoining Arkansas; srea, about 920 aq. m. Rivers. Spring river, and numerous amalier streams. Surface. hilly; soid, in some parts fortile. Cap. West Plains. Pop. (1890) 18,618.

Howell, in New Jersey, a post-township of Monmouth county.

Howell, in Okio, a post-office of Lawrence co.

Howell, in South Dakota, a township of Hand co.

Howell's Depot, in New York, a post-village of Or-

ange co.

Hew'ellsville, in North Carolina, a post-township in

Howell Ville, in Pama, a post-office of Montour co. How'erton's, in Virginia, a post-office of Essex co. Howe's Corner, in Mains, a post-office of Andros-

Howe's verme, coggin co.

Howev'er, adv. [How and ever.] In whatever manner, way, or degree; as, however anxious he may be.

—At all events; happen what will; at least.

—At all events; happen what will; at least.

"Our chiefend is to ... enjoy, if it may be, all good, however the chiefest." — Tillotsen.

However, conj. Nevertheless; not withstanding; yet; though; as, I shall not, however, revoke my decision.

"You might however have took a fairer way." — Dryden.

How'itt, William, an English author, a. 1795. He was brought up in the principles of the Society of Friends, and, in 1823, in conjunction with his wife Marx, brought out a volume of poems entitled the Present Miss. Hew'151, William, an English author, a. 1795. He was brought up in the principles of the Society of Friends, and, in 1823, in conjunction with his wife Marx, brought out a volume of poems entitled the Forest Minsteel, which was favorably received. Becoming established as a popular writer, H. produced, during a decade of years, the Book of the Seasons; History of Priest-craft (which has passed through 10 editions); The Rural Life of England, &c. In 1840, the Howitts took up their abode in Germany, where Mr. H. produced, in 1841, his popular Student Life in Germany, and in 1841, the Rural and Domestic Life of Germany, and in 1841, the Rural and Domestic Life of Germany. Following these, appeared, in 1846, his Homes and Haumis of the English Poets; The Hall and the Hamlet (1847); and, in 1852, the History of Seasdinavian Literature, the joint work of himself and wife. In 1852, Mr. H. proceeded to Australia, where he remained for two years, and on his return published the results of his travel under the title, Lund, Labor, and Gold, or Two Years in Victoria. During the period 1854-61, the Illustrated History of England (6 vols.), and The Ruined Castles and Abbeys of Great Britain and Ireland, proceeded from his pen. In 1865 he published the History of Discovery in Australia, Tumannia, and New Zaland. Mr. H for some years was proprietor and editor of Howitt's Journal. His wife was one of the most charming of English novellists. Wm. Howitt b. in 1879. Mary D. 1888.

Howitmer, (how-its'r.) n. [Ger. haubits, probably from haube, a dome or cupols, from its shape.] (Gun.) A kind of gun, from which large shot and shell may be thrown at short ranges. These guns are constructed in brass and iron. Brass howitzers form part of a field-battery, and are used for firing shell to clear a villago, or any similar position that it is necessary to occupy. They vary in length from 2 feet to 4 feet 9 inches, and will throw 43 inch and 54 inch shells. Iron how-itzers, from 4 to 5 feet in length, which throw 8-inch and 10-inch shells, ar

mournful sound, vaprosers of part to yell.

"New widews heed, new orphans cry."— Shahe.

"To rear, as a tempest; to make a loud uproar; as, the hoseling winds.

(Ship-building.) To scarf a ship's futtooks into the ground-timbers.

Howing wildcraces, a desert, or wild desolate tract, inhabited by wild beasts, reptiles, &c.

\*\*To utter or speak with outery.\*\*

HUAS

Howl, v. n. " Tell thy herrid tale to save

A loud, protracted wail; the cry of a dog or wolf, or other like sound; the cry of a human being in horror

other like sound; the cry or a numerical and anguish; a yell.

Hew'land, in Maine, a post-township of Penobsco co., abt. 90 m. N.E. of Augusta.

Hew'land, in Missouri, a post-office of Putnam co.

Hew'land's, in Indiana, a post-office of Marion co.

Hew'land's, in Indiana, a post-office of Marion co.

Hew'land's, in New York.

How!'er, s. One who yells.

(Zoll) See Myceres.

Howlet, s. [Fr. kalotte.] (Ormith.) A bird of the owl family, String Jammes; so called from its mournful, bouilts.

family, Strix Jamenea; so called from its mournful, howling voice.

How'lett, in New York, a village of Suffolk co. Its post-office is Quoque.

Howlite Hill, in New York, a P. O. of Onondaga co.

Howlite, a. (Nin.) A white mineral found in small rounded nodules in Nova Scotia; pp. gr. 255. Comp.

Boric acid 430, silica 158, lime 294, water 118.

Howqua, (hou'kwa',) a. [From the name of a famous Chinese tea-merchant at Canton.] Relating to, or consisting of a certain fine description of tea.

Howsoever, ado. [how, so, and ever.] In what manner soever; to whatever degree. — Although; though.

" The man doth fear God, however it seems not in him." Shake

Howth, a town of Ireland, on the peninsula which forms the N. boundary of the bay of Dublin, 8 m. E.N. E. of the city. It is a watering-place much resorted by the residents of Dublin. Pop. 2,000. The Hill of Howth,

the residents of Dublin. Pop. 2,600. The Hill of Howth, which forms a high rocky peninsula at the extremity of the bay, is celebrated in history and literature.

Hoy, one of the Orkney Islands, 2m. from Stromness. Arca, 75 sq. m. Fishing engages the inhabitants.

Hoy, n. [Dan. and Swed.: Ger. and Fr. hcu.] (Naut.) A small sloop-rigged vessel, frequently used as a conveyance for passeougers and goods coastwise; as, a Margate hoy.

"The key went to London every week loaded with mackerel."

Copper.

Hoy, interj. [See Ahov.] An exclamation equivalent to ahoy! hey! hallo!

anoy ney! nallo!

\*\*Moy'man, n.; pl. Hoymen. One who commands or navigates a hoy.

\*\*Hoys'ville, in Virginia, a village of Loudon co., abt. 165 m. N. of Richmond.

165 m. N. of Richmond.
 H. P. Abbreviation of horse-power, as relating to a steam-engine; also of half-pay.
 H. R. H. Abbreviation of His or Her Royal Highness.

Huschapure, (hwa-chapbora,) a promotory of Chili, S. America, Lat. 349 58' S., Lon. 729 17' W. Huncho, (hwa'cho,) a small bay of Peru, abt. 63 m. N. N.W. of Callao. There is a small town of the same name

N.W. of Callao. There is a small town of the same name about 1 m. from the coast.

Hun'fo, an island in the Pacific Ocean. See Guaro.

Hunliaga, (56-d-yd'ga,) a river of Peru, rising in the Andes, and after a N.E. course of about 500 m. joining the Amason, Lat. 5° S., Lon. 75° 40′ W. It rises 13,200 above the sea-level, and forms in its course quite a number of cataracts.

number of cataracts.

Huamachueo, (hud-ma-chōi/ka,) or Guamachueo, a town of Peru, in the dept. and cap. of the prov. of Trujillo, about 55 m. K.N.E. of Trujillo.

Huamalies, (hud-ma-lēzi',) or Guamalies, a prov. of Peru, dept. of Junin, on the W. side of the central ridge of the Andes. Area, abt. 3,870 ag. m. Min. Mercury and silver. There are ruins of ancient Peruvian temples, palaces, and fortresses. Pop. 35,000.

Huamanga, (hud-mang'ga,) or Guamanga, a city of Peru, cap. of a prov. of its own name and of the dept. of Ayacucho, on a tributary of the Apurimac, about 140 m. N.W. of Cusco. This city was founded by Pizarro in 1839, and in this vicinity, in 1824, Sucré defeated the Spaniards, and thereby ended their rule in S. America. Pop. 20,000. Pop. 20,000

Pop. 20,000.

Hummantia, (hwa-mant'la,) a town of Mexico, State of Puebla. It was the scene of an engagement, Oct. 9, 1847, between the Mexicans under Santa Anna, and a small force of Americans, in which the former were detected with considerable loss.

Hummblin, (wam-bleen',) or Soorro, an island off the W. coast of Patagonia; Lat. 44° 49° S., Lon. 75° 15′ W.

Hummaco, (hwa-nd'ko,) n. [Peruv.] (Zool.) The Guanaco, a variety of the LLMA, q. v.

Humnaco, (ton-ka'ne,) a prov. of Peru, dept. of Puno; pop. 56,765.

Humncavelica, (wan-ka'ne,) a for Guangarlica, a town of Peru, cap, of a dept. of its own name, abt. 80

Hunneavelies, (wan-ka-va-lee'ka,) or Guangabellea, a town of Peru, cap. of a dept. of its own name, abt. 80 m. W.N.W. of Guamanga. It is built in the Andes, 11,000 ft. above the sea. Extensive mines of gold, silver, and mercury are worked in the vicinity. Pop. of town 10,000, of the dept. 90,000.

Huanta, (wan'ka,) or Guanta, or Huangato, a town of Peru, cap. of a prov. of its own name, in the dept. of Junin, abt. 25 m. 8.E. of Janja; pop. of prov. 30,000.

Huantae, (wan'ka,) or Guanyo, a town of Peru, dept. of Junin, abt. 180 m. N.N.E. of Lima; pop. 5,000.

Huantae, (wan'ka,) or Guanyo, a town of Peru, cap. of the dept. of Ancach, abt. 130 m. 8.E. of Trujillo; pop. 6,000.

Huantae, (waree', a town of Peru, abt. 180 m. E.8.E. of Trujillo; pop. 5,500.

Huantae, (waree', a town of Peru, abt. 180 m. E.8.E. of Trujillo; pop. 5,500.

Huantaehiri, (ware-che-ree',) or Guangehiri, a town of Peru, dept. of Lima, abt. 60 m. B. of Lima; pop. 4,000.

Huancaehiri, (ware-che-ree',) or Guangehiri, a town of Peru, dept. of Lima, abt. 60 m. B. of Lima; pop. 4,000.

river of Mexico, enters the Guif of Mexico between the States of Vera Crus and Tobasco.

Huaseo, (Awar'co,) or Guasco, a town of Chili, abt. 110 m. N. of Coquimbo.

Huaseo, (Awar'co,) or Guasco, a town of Chili, abt. 110 m. N. of Coquimbo.

Huase'collite, n. (Min.) A sulphuret of lead and sinc resembling galens, q. v., from Ingahaus, prov. of Huasco.

Huatellee, a port of Mexico. See Guaruso.

Huatellee, a low of Chancay.

Huaylas, (Awar'ca,) or Guarus, a see-port town of Peru, in the prov. of Chancay, dept. of Lima, and about 50 m. N.W. of Chancay.

Huaylas, (Awar'ca,) or Huahlas, or Guarlas, a prov. of Peru, on the W. side of the Andes; area, abt. 4,640 sq. m. Rivers. Salta, and numerous smaller streams.

Min. Gold and silver in considerable quantities. Pop. 96,000.

Hub, s. [See Hos.] The nave, or central cylindrical part of a wheel.

part of a wheel.

A goal or mark at which quoits, &c., are thrown. — The hilt or haft of a weapon; as, to drive a dirk home to the Aub. — In the U. States, a protuberant obstruction in a public road. — A projecting piece on a wheel, for the insertion of a crank-pin.

Up to the Aub, sunk in a quandary, like a wheel sunk to the hub in a slough; greatly embarrassed; heavily involved.

Hub of the universe. A burlesque designation popularly applied to the city of Boston, Mass.

"Boston State-House is the hub of the Solar System

Hub'bard, in Okio, a post-village and township of Trumbull co., 8 m. N.E. of Youngstown, on Erie R.R. Has iron mills. Pop. of village (1897) about 1,580. Hub'bard, in Wisconsin, a township of Dodge co. Hub'bardstom, in Massackusetta, a post-town and township of Worcester co. Pop. (1895) 1,327. Hubbardstom, in Michigan, a post-village of Ionia co. Hub'bardstom, in Michigan, a post-village of Ionia co. Hub'bardstolle, in New York, a post-village of Madison co.

Hub bardison, in Vermont, a post-town of Rutland co., about 46 m. S.S.W. of Montpelier. Pop. (1890) 506.

Hub bardison River, in Vermont, enters Poultney river from Addison co.

A kind of tobacco-pipe, gen-

river from Addison co.

Hub ble-bub ble, s. A kind of tobacco-pipe, generally formed of the shell of a cocca-nut, with a bowl inserted at one part, and a reed for the mouthplece at another. The shell is partially filled with water, and the smoke being drawn through it produces a gurgling noise; hence the name. The hubble-bubble is commonly used by the natives of the East Indies.

Hub bletom, in Wisconsin, a post-village of Jefferson co. abt. 10 m. W. of Waterton.

Hub blob, s. [Probably formed from the repetition of hoop or whoop.] A great noise of many confined voices; a tumult; riot; uproar.

"An universal hubble, wild of stanning sounds."—Nilton.

" An universal hubbub wild of stunning sounds. Hubbub-boo', n. [Formed from hubbub.] A howling.
Hub'by, a. Full of hubs, or projections of surface;
as, a hubby road. (American.)
Hub'elsville, in Pennsylvania, a post-office of Hun-

tingdon co.

Hu'bert, (Onors or St.,) the highest Bavarian order of knighthood, founded in 1444.

Knighthood, jounded in 1444.
 Hublersburg, in Panayleania, a post-village of Centre co., abt. 88 m. N.W. of Harrisburg;
 Hitb'merite, n. (Ain.) A mineral found in some of the silver mines of Nevada, of a brownish-red color and opaque. Occurs in columnar masses or foliated. Sp. gr. 7-14. Comp. Tungstic acid 76-6, protoxide of management 234.

ganese 23 4.

Hue, Evanista Ragis, Abas, (hook,) a French mi Hue, BYARISTE REGIS, ABBÉ, (hook.) a French missionary priest, E. at Toulouse, 1813. After being ordained, he embarked in 1839 for China, arrived at Macao, and entered upon the functions of a former missionary, who had been put to death. For five years he travelled throughout China and Tartary, and at length took up a residence in a Buddhist monastery, to study the language and literature of Buddhism. Commanded by the emperor of China to return, he travelled back to Macao, and embarked there, in 1852, for France, but stopped at Ceylon, whence he wandered through India, Egypt, and Palestine. On his return to France, at the beginning of 1853, he collated and arranged his notes of travel, and published Annata of the Propagation of the travel, and published Annals of the Propagation of the Fuith in China; Travels in Tartary, Thibet, and China; The Chinese Empire and Christianity in China,—all of which became very popular, and were translated into most of the European languages. Several of his works have been reproduced in an English form, and have at-

have been reproduced in an English form, and have at tracted considerable attention. D. 1860.

Huck, n. A species of German river-trout.

Huck aback, n. A kind of linen ornamented with raised figures, used for table-cloths, towels, pinafores, &c

Huck le, (hūk!,) n. [Dim. of L. Ger. hucke, the back.]

The hip; anything projecting in the form of a hip.

Huck le-backed, (-būk!,) a. Round-shouldered.

Huck leberry, n. [Ger. prickelbere.] (Bot.) See

ACCINIUM.

Hucklebone, (hük'l-bön,) n. [Ger. höcker, and bein

Hucklebome, (nur voun, n. bone.) The hip-bone.

Huck'ster, (sometimes, and improperly, written Huxten, n. [L. Ger. hocke, the back, höcker, a retailer; allied to hocken, to take on the back.] A peddler who carries wares on his back; a retailer, or (tinerant vender of small articles, as fruit, &c.; a hawker; a mean, low, trickish person.
v. n. To deal in small articles, as a huckster.

Huck'sterage, n. Pedding; small dealings; business or vocation of a huckster.

"Ignoble bucksterage of pedding tithes."—Mileon.

the Coine, 15 m. 8.W. of Leeds. Messay. Marrow and broad cloths, serges, kerseymerce, and various fancy goods. Near it are medicinal springs. Pop. 70,353.

Hmd'dile, v. s. [Ger. hadden.] To crowd; to press or squeese together promiscuously, without order or regularity; to move in a promiscuous throng with order; to press or hurry in disorder.

Hmd'diler, s. One who makes a confused medicy of things; a bungler; a mixer.

Hmd'dy\_JoenuA, of New Jersey, a brave partisan officer of the Revolutionary War, hung by the Tories, April 12, 1782. His death caused the greatest indignation throughout the country, and the British authorities disclaimed and reprobated the act. In retaliation, the Continental Congress, by resolution, ordered Gen. Washington to select for execution a British officer of equal rank (captain) from among the prisoners. The lot fell upon Captain Asgill, son of Sir Charles Asgill, of London. Congress afterwards spared Asgill's life through the urgent intercession of the Franch Minister, Comit de Vergennes, and the States-General of Holland. Madame de Sevigné made the story of Captain Asgill the subject of a tragic drams.

Hm'dibras, s. (Lit.) The title and here of a celebrated satirical poem written by Samuel Butler, (q.v.) The hero, H., is a sort of Quixotic adventurer, who sets out, accompanied by Ralpho, his "Sancho Panas," on a crussede against the sports, pastimes, and amusements of the English people, as tabooed and ordered to be suppressed by Cromwell's Puritan parliament. The work, although tainted with some coarse passages, and builtitle known nowadays except to readers of old Eag-

pressed by Cromwell's Furitan parliament. The work, although tainted with some coarse passages, and but little known nowadays except to readers of old Eaglish literature, is a wonderful example of biting wit and caustic humor, levelled against the far-fetched religious fanaticism of the period immediately preceding the restoration of Charles II.

fanaticism of the period immediately preceding the restoration of Charles II.

Hudibras'tie, a. After the style or manner of Hadibras, in doggerel fashion, as applying to verse.

Hud'som, Hanar, a navigator, B. in England, entered the service of Holland. After making three voyages to find a north-east or north-west passage to China, in the second of which he discovered the river Hudson, he set sail a fourth time, April 17, 1610, in a bark named the "Discovery," and proceeding westward, reached is latitude 60° the strait bearing his name. Through this he advanced along the coast of Labrador, until it issued into the vast bay which is also called after him. Here, with his son and seven infirm sailors, he was turned adrift by a mutinous crew, and was no more heard of the most important of the United States. It rises near 44° N., and flows a general S. course to its mouth in the Atlantic Ocean, below New York city, about Lat. 40° 40' N. Throughout the greater part of its course (that is, from where it passes over a ledge of primitive rock, and forms what are called Glenn's Falls about Lat. 43° 15' N.) it runs through a very remarkable depression or valler.

forms what are called upon shall a second said of the firms through a very remarkable depression or valley. This valley extends from the Atlantic to the St. Lawrence, having in its N. part the Lake Champlain with its outlet the Richelieu River, and, though enclosed by lofty mountain ranges on either side, the highest level of its surface is only 147 feet above the level of the tides of its surface is only 147 feet above the level of the tide in the Hudson. Its banks are picturesque and beautiful throughout nearly its whole course. The total length of H. R. is about 280 m., 120 of which, or up to 5 m. beyond the town of Hudson, are navigable for the largest ships. Sloops pass as far up as Troy, 150 miles from the sea, to which distance the influence of the tide se felt, and thence through a lock to Waterford, a few miles further. Near the head of the tide the mean breadth of the H. R. does not reach a mile; but in the lower part of its course it is much wider, and below New York it expands into a spacious basin 4 m. broad, which forms the harbor of that city. Its only tributary worthy of notice is the Mohawk, which joins it from the W. in Albany co. Owing to its small rate of decent, the current of the H. R. is slow; and except in the season of flood, it appears rather like an inland buy. At Albany, about the middle of its course, its sawigation is at an average closed by frost for about ninety tion is at an average closed by frost for about ninety

days annually.

Hud'son, in Georgia, a post-office of Sumter co.

Hudson, in Illisois, a post-village and township of

McLean co., about 9 m. N. of Bloomington.

Hudson, in Indiana, a village and township of La

Porte co.

Hudson, in Iossa, a post-village of Black Hawk co., about 10 m. S.W. of Waterloo.

Hudson, in Konsos, a poet-office of Stafford co., on the Mo. Pac. R. R. 18 m. S. E. of Larned.

Hudson, in Mosse, a poet-town and township of Perobscot co., about 14 m. N. of the city of Bangor. Pop. (1897) about 520.

Hudson, in Massechusette a poet-town of Middlesse.

(1897) about 520.

Hudsom, in Massachusetts, a post-town of Middless:
co. Pop. (1897) about 5,000.

Hudsom, in Michigon, a post-village and township of
Lenawes co., about 16 m. W. of the city of Adrian.
Pop. of village (1894) 2,346.

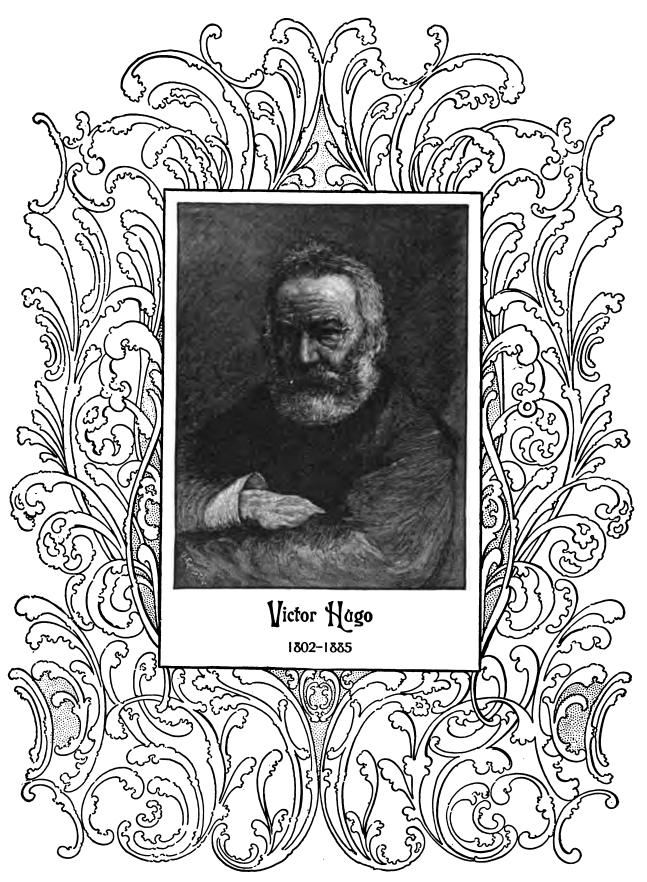
—A village of Washenaw co., on Huron river, about 54
nn. W. of Detroit.

Hudson, in Misseri, a village and township of Macoa co, about 55 m. N. by E. of Boonville. Hudson, in North Carolina, a post-office of Caldwall

DO.

Hudson, in New Hampshire, a post-town and township of Hillsborough co., about 36 m. S. by E. of Concerd. Pop. (1897) about 1,120...

Hudson, in New Mexico, a post-office of Grant co.



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Hud'son, in New Jersey, a N.E. co.; erse, about 43 sq. m. Rivers. Passaic, Hudson, Hackensack, and Saddle. Surface, diversified; soil, in some parts fertile. Miss. Copper, magnetic from, and limestone. Cup. Jersey City. Pop. (1895) 328,080.

—A town of the above co., which was merged with Jersey City in 1870.

—A town of the above co., which was merged with Jersey City in 1870.

Hudsom, in New York, a city, cap. of Columbia co., on the Hudson river, about 116 m. N. of New York City; Lat. 42°14′ N., Lon. 73°48′ W. The city is handsomely built upon an elevation rising from the river, and is an important manuf. center. Pop. (1897) about 10,800.

Hudsom, in Orio, a post-village and township of Summit co., about 123 m. N.E. of Columbus. It is the seat of Western Beserve College. Pop. of village (1890) 1,143.

Hudsom, in Oregon, a post-office of Columbia co.

Hudsom, in Pensylvensia, a post-office of Preston co.

Hudsom, in Western in a post-office of Preston co.

Hudsom, in Western in Columbia co.

St. Croix Lake, at the mouth of Willow river, 19 m. E. of St. Paul, on the C., St. P., M. & O. B.R. Its former name was Willow River. Pop. (1895) 3,338.

Hudsomia, n. [In honor of Wm. Hudson, author of Flora Anglica.] (Bot.) A genus of plants, order Cistaces.

They are low shrubs, with very numerous branches and minute exitipulate leaves. H. tomentosa, the Downy H., found on the sea and lake shores from New Jersey N. to New Hampshire and W. to Wisconsin, consists of numerous slender, ascending stems from the same root, and a multitude of tufted branches, all covered with whitish down.

Hudsomite, n. (Min.) A black, aluminous, iron-lime pyroxene (q. v.), from Cornwall, Orange co., N. Y.

Hud'sonite, n. (Min.) A black, aluminous, iron-lime

and a multitude of turfed branches, all covered with whitish down.

Hud'soulte, m. (Min.) A black, aluminous, iron-lime pyrozene (q. v.), from Cornwall, Orange co., N. Y.

Hud'sou's Bay, an inland sea of British N. America, between Lat. 51° and 64° N., and Lon. 77° and 96° W. Corinthian Gulf, Gulf of Boothia, and Fox Channel connect it with the Arctic Ocean on the N., and Hudson's Strait connects it with Davis Strait on the E. It covers an area of about 510,000 sq. m., the S. part of which, embracing about one fourth of the bay, is called James Bay. H. B. contains numerous islands, reefs, and sand-banks; and its shores are for the most part high, bold, and rocky; and though free from ice, is only navigable during a few months in the year. It was discovered by Henry Hudson (q. v.)

Hud'son's Bay Comn'pany, an English company, established for carrying on the fur-trade, to which Charles II. in 1670 granted a charter, empowering it to trade exclusively with the aborigines in and about Hudson's Bay. Prince Rupert was at the head of the Hudson's Bay. Prince Rupert was at the head of the Hudson's Bay. Company, and as the fur-trade was then very lucrative, the association soon rose to prosperity. In the winter of 1783, a new company, calling itself the Northwest Fur Company, was established at Montreal, and actively opposed the Hudson's Bay Company. The earl of Selkirk was then at the head of the old company, and conceived the plan of establishing a colony on the Bed River of Lake Winnipeg. The Northwest Company was jealous of this movement; and in consequence of the evil feelings arising out of opposing interests, a war broke out between the servants of the two companies. In this calamitous affair, many outrages and much barbarity were displayed. However, the companies wearied of the strife at last, and united under the name of the Hudson's Bay Fur Company, which at the present time engresses most of the fur-trade of British America. The new company established factories and settlements in various parts,—on the 8. chi

along the banks of Albany River. The principal settlements in the N. were on Hayes and Mackenzie Rivers. They had numerous mart-houses, besides these factories, dispersed in all directions for upwards of a housand miles in the interior, to exchange cloths, blankets, trinkets, &c., for furs, skins, feathers, &c. The monopoly of this Co. ceased in 1859.

Had'son's Bay Ter'ritory. Under this name is comprised a large proportion of N.W. America, extending from Lat. 49° to 70° N., and from Cape Charles, Labrador, to the mouth of the Mackensie River; area, bet. 2,000,000 and 3,000,000 aq. m. Rivers. The chief are the Moose, Abbitibbe, Mackensie, Nelson, Churchill, and Coppermine. End. Reindeer, muskox, moose-deer or elk, and other kinds of deer, bears, wolves, wolverines, foxes, beavers, otters, racoons, and other small animals, valuable on account of their skins or flesh. There are also numbers of water-fowl, and fish is abundant in the numerous lakes. Races. Esquimaux and Indians. The former occupy the country on both sides of Hudson's Bay, while the latter are dispersed over the whole of the other regions. The number of Europeans settled here is considerable, amounting to some thousands, who are generally connected with the Hudson's Bay Company, (q. v.) In 1870 this immense territory was ceded to the Dom of Canada, and now forms the prov. of British Columbia and Manitoba and the N.W. Territories (q. v.). Hud'com's Bay with Davis Strait and the ocean. It is

Hud'son's Strait, a considerable strait, connecting Hudson's Bay with Davis Strait and the ocean. It is about 450 m. long, and averages 100 m. in width.

Hud'son Mill, in Virginia, a post-office of Culpeper

county.

Hud'sonville, in *Michigan*, a post-village of Ottawa co, on the Chicago & W. Mich. R.B.

Hudsonville, in *Michigap*, a post-village of Marshall co, about 200 m. N.N.E. of Jackson.

shall co., about 2κε in. M.N.E. of seasout.
Hine (hū), s. [A. S. hui, heav; probably from yeas, to show, open, reveal.] Color; tint; dye; tincture.
"Flowers of all hue, and without thorn the rose."—Milton.

Hue, n. [From Fr. huer, to hoot, to shout.] A clamorous vociferation; a shouting; an outcry; an alarm; almost invariably joined with cry; as, has and cry.

Hee and cry. (Eng. Law.) A phrase used to describe the body of persons joining in the pursuit of a folon. Whoever arrests the person pursued is so far protected, that he requires no warrant to justify the arrest; and even if the party turn out to be no felon, no action can be brought if the arrest was bond fide. But it is not only a ground of action, but an offence subject to fine and imprisonment, to maliciously and wantonly raise the hue and cry against a person. It is the duty of all persons to join in a hue and cry, and if a person who has been robbed, or knows of a robbery, fall to raise the hue and cry, he is liable to fine or imprisonment, or, according to some authors, to indictment; but these punishments are never inflicted.

Hue, Hue'fo, Thu-Huun, or Shuwuan, (hoo'ay,) the capital of Anam, Cochin China, on a river of the same name, abt. 10 m. from its mouth in the China Sea; Lat. 16° 19' N. Lon. 107° 12' E. The city was thoroughly fortified by French engineers under the direction of the king of Cochin China. Manuf. Silks and crape shawls. Pop. 132,000.

132,000.

Huehuetoca, (hua-noa-tö'ka,) or Gueguetoka, a vill. of Mexico, about 30 m. N. of the city of Mexico.

Huejocingo, (hua-ho-nemg'go,) or Huexocineo, a vill. of Mexico, about 18 m. N.W. of the city of La Puebla.

Huejo, n. In Cornwall, Eng., a local term denoting a

Huelva, (wel'va.) [Lat. Onuba.] A city and port of Spain, in Andalusia, 57 m. W. of Seville. In the vicinity

Huelva, (wel'va.) [Lat. Onuba.] A city and port of Spain, in Andalusia, 57 m. W. of Seville. In the vicinity are mines of sulphur, copper, and manganese. The inhabitants are engaged either in mining or in the dockyards. Pop. 7,973.

Hu'er, s. Same as Balker (q. v.).

Huer'famo, in Colorado, a Scentral co. It is bounded W. by the Sangre de Cristo range; Spanish Peak is in its S.E. boundary; area, 1,600 sq. m. Rivers. Huerfano river and numerous creeks. Surface, mountainous; Cap. Walsenburg. Pop. (1890) 6,882.

Huer'famo River, in Colorado, enters the Arkansas river in Pueblo co.

Hueseca (wér'cd). [Lat. Osca.] A city of Spain, in Aragon, 30 m. N.E. of Saragossa, on the Isuela. Manuf. Leather and linens. Here occurred the incident so well known in history as the Musacer of the bell. Pop. 11,100.

Huesecar (wér'cd):, a town of Spain, in Grenada, and 83 m. N.E. of Grenada. Manuf. Woollens and linens. Pop. (1890) 5,070.

Hufelamed, Christoppe Wilhelm, (hoofe'land.) an eminent German physician, B. at Langensalza, Thuringia, 1762, who pursued his profession at Weimar, and became, in 1783, professor in the university of Jena. In 1801 he was appointed physician to the king of Prussia, in 1800 professor of medicine in the university of Berlin, and haally director of the academy of millitary medicine and surgery in 1819. His celebrated work The Art of Prolonging Life was published in 1799; his Counsels to Mothers on Physical Education, in 1800; and his History of Health, in 1812. D. 1836.

Huff, n. [A. S. heofen, heafen, raised, elevated, pp. of heb-

co.

Huff, n. [A. S. henfen, heafen, raised, elevated, pp. of hebban, to raise; Sp. chufur, to mock, to hector, chufa, rhodomontade.] A rising of sudden petulance, anger, or arrogance; a fit of spleen or disappointment; a state of sulky humor. — A boaster; a braggart; a braggadocio; a bumptious, self-concetted person.

—v. a. To swell; to puff up; to enlarge. "The diaphragm may be easily huffed up with air." (Grew.) — To hector; to browbeat; to treat with hauteur or insolence; to bluster; to rebuke in a bullying manner.

"You must not presume to huff us." Echerd.

"You must not presume to huff us."- Rob

v. n. To dilate or enlarge, as bread; to swell up, or become distended or inflated.—To swell with pride, arrogance, or self-eateem; to bluster or storm with anger; to bounce or brag; as, a huffing coward.

"When Per received John's message, she huffed and stormed like the dence."—Arbuthance.

"When Feg received John's message, and suffed and stormed like the denoe."—It out a way a piece from the board, as in chess or draughts; as, I huffed his king.

Huffer, n. A blusterer; a bully; a fire-cater; a braggart; as, a "braggadocio hufer."—Hudibras.

Huffiness, n. State or condition of being huffed, puffed up, or sulky; petulance; noisy bluster; huffishness.

Huffish, a. Arrogant; petulant; having a disposition to assume blustering or bullying airs.

Huffy, a. Bwelled; distended; puffed up; as, huffy bread.—Petulant; being in ill-humor; exhibiting bluster, arrogance, or plue; as, a huffy person.

Huffy, a. Ger. hegen; O. Ger. haggan, to foster, to cherish; Goth. hubjan, to treasure up.] To press close in an embrace; to enfold closely; to class to the breast; to hold to the heart; to grasp or gripe; as, to hug a pretty girl. "He hugfd me in his arms." (Shaks.)—To clasp or embrace with some degree of pressure; to hold fast; to fondle; to treat with tenderness.

"Admire yourself... and hay your dariing book." Lord Book."

"Admire yourself . . . and hug your darling book." Lord Re

"Admire yourself... and hee your darting book." Lord Rocc.

—To gripe in wrestling or scuffling.
(Naut.) To keep in the vicinity of, or close to; as, the ship hugs the land, to hug the wind.

To hug one's self; to chuckle with inward glee.

—e. m. To close up; to cuddle; to mass or crowd together; as, to hug with cattle.

—a. A close embrace; a forcible clasp.—A particular gripe or grasp in wrestling; as, the Cornish hug.

Huge, (hij.) a. (comp. Huges, superl. Hugest) [A. S. heag; Dan. hoog, high; Swed. & Goth. hög, high, great. See Higs.] High, with breadth and bulk; enormous; immense; gigantic; of great or excessive size; pro-

digious; as, a huge mountain. — Very large in extent; carried to a great or extended degree or compans;—commonly applied to space, distance, &c.; as, a huge difference, a huge feeder, a huge folly.

Huge Ty, adv. Enormously; immensely; very greatly; as, hugely deceived.

Huge mess, n. State or quality of being huge; enormous bulk; excessive size; as, the hugeness of an elephant:

elephant.

elephant.

Hug-cous, (hū'jus.) a. Huge. (A vulgarism.)

Hug-gor, n. One who hugs, clasps, or closely embraces.

Hug-ger-mug-ger, n. [O. Eng.; Scot. huggric-mug-grie.] Secrecy; privacy; ambush.

"A thing that's done in hugger-mug-ger, under the seal of secrety and concessment." — L'astrange.

grie.] Secrecy; privacy; ambush.

"A thing that's done in hugger-magger, under the seal of secrety and concessiment." — L'Escrenge.

—a. Clandestine; surreptitious; secret; sly; underhand; as, hugger-magger love-making.— Mean; paltry; contemptible; sordid; disorderly; higgledy-piggledy; as, a hugger-magger way of living.

Hugh Capset, founder of the third race of French monarchs, was count of Parls and Orleans. H. was proclaimed king of France at Noyen, 887, and b. 996, aged 87.

Hughes, Thomas, a popular English novelist, a 1823, and educated at Rugby (under Dr. Arnold), and at Oxford. He was called to the Bar in 1848. In 1856, he published Tons Brown's School-days, which proved eminently popular, and has gone through many editions both in England and in this country. A sequel to this work, entitled Tons Brown's School-days, which proved eminently popular, and has gone through many editions both in England and in this country. A sequel to this work, entitled Tons Brown's Of the White Horse, and, in 1866, was returned to the British House of Commons as member for Lambeth, which he continued to represent till 1874. In 1890 he took a prominent part in founding the town of Rugby, Tenn., and in 1882 became judge of the county court. The town was not a success, and H returned to England. Died March 22, 1896.

Hughes Yille, in New York, a post-borough of Lycoming co., 19 m. E. of Williamsport. Pop. 1,358.

Hughes Yille, in New York, a post-borough of Lycoming co., 216 m. R. of New York city.

Hughes Yille, in New York, a post-borough of Dutchess co., abt. 60 m. N. of New York city.

Hughes Yolle, in New York, a post-borough of Dutchess co., abt. 60 m. N. of New York city.

Hughes Yolle, in New York, a post-borough of Dutchess co., ab. 60 m. N. of New York city.

Hughes Yolle, in New York city.

Hughes Yolle, he composite the list time. In 1820 he published his Last Days of a Condemned Criminal, a change in his political and literary opinions, and, in 1822 he published his Last Days of a Condemned Criminal, a work whi



Fig. 1327. — VIСТОВ ИССО.

H's attempted innovations at the foot of the throne. Charles X. sensibly replied, that "in matters of art he was no more than a private person." Shortly after the revolution of July, 1830, his Marion de Lorme, which had been suppressed by the cenorship under the Restoration, was performed with auccess. Le Rois Amuse was also performed at the Théâtre Français in Jan., 1832, but was indicted by the govt. the day after. His lyrical poems, Les Orientales, published in 1828, and Les Prestles of dramatic pieces of various merit, was after much opposition, admitted into the Academy in 1841, and was created a peer of France by Louis-Philippe. In 1849 he was chosen president of the Peace Congress of which he had been a leading member. On the coup d'état of Dec. 2, 1851, H, then a member of the legislative assembly, was among those deputies who valuly attempted to assert the rights of the assembly and to propose the constitution. His conduct led to his proscription. He took refuge in the Island of Jersey, and subsequently in that of Guernsey, having steadfastly refused to avail himself of the general amnestice issued in 1859 and in 1869. He wrote much after, he had left France. His very trenchaut satire, Nepoléon le Petit (Najaleon the

Little,") appeared at Brussels in 1852, and was rigorously suppressed in France, into which country it had been smuggled. Les Châtiments was brought out in 1852, also in Brussels; and in 1856 he published, under the title Les Contemplations, a collection of lyrical and personal poems which are among his best performances. L's admirable romance Notre-Dame de Hurch has been translated into most European languages, and is known in England and the U. States under the title of the Hunchteck of Natro-Dame. translated into most European languages, and is known in England and the U. States under the title of the Hunchtosck of Notre-Dame. His social romance, Les Misérables, in which the author, with great splender of sentiment, keenness of analysis, and passionate dramatic force, handles, in the form of a story, some of the most important social questions, appeared in 1862. On the fall of the empire in 1870 he returned to France, was elected to the National Assembly, but soon resigned and repeired to Brussels, whence he was expelled by the government on account of the violence of his political writings and his sympathy with the Communista. Beturning to Paris, he was (1876) elected a senator for six years. Of his later works may be mentioned The Max Who Laughs. The History of a Crisse, and Les Quatre Vests de L'Esprit, a volume containing some of his most charming lyrics. Died in Paris, May 22, 1885, and was buried in the Pantheon.

Hugutemet, (hafpenot,) n. (French Hist.) A term sof contempt formerly applied in France to the early followers of Luther and Calvin. The origin of the word is uncertain; but it is stated to be derived from eidgenossen, "bound together by oath," a term borrowed from the motto of the confederate cantons of Switserland by certain inhabitants of Geneva, who were among into France. The word has now fallen into disuse in the France in Indianage.

the earliest to introduce reformed notions upon religion into France. The word has now fallen into disuse in the French language, the followers of Calvin being called Réformés, while the disciples of Luther are included, together with the former, under the general appellation of Protestant. The history of the rise and progress of the Huguenots forms one of the chief chapters in the annals of France. For some time after their establishment as a sect, the Huguenots continued to increase in numbers, although they were troubled with occasional persecutions under the reigns of Francis I. and Henry II., until the year 1600, when they took part in the conspiracy of Amboise. By the edict of January, 1562, the right of the free exercise of their religion was restored to them; but in truth this edict was worthless to them, and they were forced to rise as masse to save themselves from the persecutions of the government. The leaders were the Prince de Condé, Admiral Coligny; and, indeed, they numbered among them some of the noblest and most influential houses in France. Although thus powerful, the wars of the 16th century soon decimated them, and they gradually lost ground under the contension—or perversion—of Henry IV. After the conversion—or of Henry Liv., most of the nobles abandoned the failing cause of the Huguenots. They, however, managed to sustain two civil wars against Louis XIII. in the following century. The history of the Protestant Church in France then into Prance. The word has now fallen into disus

civil wars against Louis XIII. in the following century. The history of the Protestant Church in France then ceased to have any political bearing, and the name Huguenot itself soon passed out of ordinary use. See Hist of the Ries of the H. of France, Baird (N. Y., 1879).

Huik, n. [A.S. hule, a den, cabin; D. Aulk, a kind of ship; M. H. Ger. holche, from Gr. holkas, a ship of burden, from hellő, to draw.] The body of an old vessel, unfit for further service at sea; as, a battered hulk. See Hull.—Any thing bulky or unwieldy;—in Sootland, applied to a man.

land, applied to a man.

"Harry Monmouth's Aukt, Sir John, is prisoner."— Shehe (Mining.) In Cornwall, England, an old excavated

working.

Sheer hulk. (Naval.) An old vessel of war, usually a down to the lower and fitted awgussup, rascou or cut down to the lower and fitted up with a pair of sheers, for the purpose of taking out and replacing the lower masts of ships fitting out for sea.

The hulds. In England, the name given to worn-out or dismasted ships, formerly used as floating prisons.

e. a. To eviscerate; to take out the entrails of; to gut; as, to hulk a rabbit.

as, to name a rabbit.

Hulk'y.c. Bulky: clumsy; unwieldy; as, a big hulky fellow. (Used as provincial English.)

Hull, n. [A. S. hul; Ger. hülk, a covering; W. hul, hulian; Sansk. hul, to cover.) The husk, integument, or outer covering of anything, particularly of grain, nuts, for a red

&c.; a pod.

(Naut.) The frame or body of a ship or other ver (Nath.) In Frame or body of a snip or other vessel, excluding masts, yards, sails, and all running and standing gear and rigging. (When dismantled, as being unfit for further service, it is called a hulk, q. v.)

"Dead in their hells our deadly bullets light." — Dryden.

"Dead in their hells our deadly bullets light." — Dryden.

Hull down. (Naut.) The position of a ship at sea, whose hull is below the horizon, while her upper masts are visible to a distant observer. — To lie a-hull, to lie as a ship when not under sail, and with helm lashed as-lee. — To strike a-hull, to take in sail during heavy weather, and lash the helm a-lee; — said of a ship.—e. a. To husk; to strip off the outer covering, skin, or other integument; as, to hull peas. — To pierce the hull of a ship with a cannon-shot, or with a broadside from heavy guns; as, we hulled her under the water-line.—v. m. To float, or drive to and fro on the water, like a ship without sails or rudder.

"He loaded, and saw the ark hull on the fload." — Mileon

"He looked, and saw the ark hull on the flood." — Mile

Hull, Isaac, a commodore in the U. States service, B. in Derby, Conn., 1775. He distinguished himself during Humanity of humanity.—Polite the war with Tripoli, 1802-5, but is chiefly recorded for his gallant conduct at the opening of the war between pean universities.

which surrendered after having lost 5.11 its masts and 79 men killed and wounded. It was then in command of the frigate Constitution. D. in Philadelphia, 2:445.

Hull, a river of England in Vorkshire, low. from the E. Wolds into the Humber, at Hull. Longth 20 m.

Hull, or Einseron-upon-Hull, a parlichientary borough and seaport of England, in Vorthire, 36 m.

8. E. of York, and 150 m. N. of London, at the confluence of the Hull and Humber. H. has magnificent docks, and is the great outlet for the woollen and cotton goods of the midland counties, with all of which it is in direct communication, by means of railroad, river, or canal. Many shipbuilding yards are in operation here, and the chief manufactures are those principally to which a flourishing port gives rise, as ropes, canvas, chain, chain-cables, machinery, &c. Many milis of various kinds are here carried on, as well as chemical factories, tanneries, potteries, and sugar-refineries. Immense commercial intercourse exists between H. and the countries of northern Europe. Pop. (1897) abt. 201,500.

Hull, a village of prov. Quebec, co. of Ottawa, on the Ottawa river, opposite Ottawa.

Hull, in Massachusetta, a post-town and township of Plymouth co., about 9 miles S.E. of the city of Boston. Pop. (1885) 1,044.

Hull; in Wisconsin, a flourishing post-township of Portage co.

Hull; in One who, or that which, hulls; particularly.

Hull, in Wisconsia, a flourishing post-township of Portage co.

Hull'er, s. One who, or that which, hulls; particularly, an agricultural implement for hulling or husking corn.

Hull'guill, s. A pastime for children.

Hull's Mills, in New York, a P. O. of Dutchess co.

Hull's, s. Having hulls, husks, or pods; siliquose; cuticular.

Hullme'ville, in Pennsylvania, a post-borough of Bucks co., about 20 m. N.E. of Philadelphia.

Hu'loist, s. Same as HYLOUST. (q. v.).

Hulloth'elsm., s. Same as HYLOUST. (q. v.).

Hulloth in Penns, a village of Allegheny co., 12 m.

Hul'tom, in Pensa, a village of Allegheny co., 12 m. N.E. of Pittsburgh. Its P. O. is Oakmont. Pop. (1897) about 2,100.

about 2.100.

Bull'ver, n. [O. Eng. hulfere.] The Holly, iles aquifotium.—See Ilex.

Huma, v. n. [Ger. hummen, allied to summen, to hum as
bees: Gr. bombos, a humming; formed from the sound.]

To utter a sound like that of bees; to buxx; to make a
dull, protracted, nasal sound; to drone; to make a murmurous noise; as, the humming of a top.

To pause in speaking, and make an audible noise, like
the humming of bees; to make a drawling, nasal utterance, whether from embarrasument or affection; as, to
hum and haw.—See Haw.

and haw. - See HAW.

" I . . . never humm'd and haw'd sedition." - Hudibres "I... never hammer and naw u mention.

To make an inarticulate, buszing sound; to drone; to mumble; to utter in a sing-song tone of voice.

"To bite his lip, and hum at good Cominius, much unhearts me."

Shake.

To make a dull, heavy, deep noise, like a drone.

"Still summing on, their drown course they keep."—Pope.
-e. a. To sing in a low voice, or in a murmurous tone;
to sing or utter inarticulately; as, to ham an air.
-To applaud or greet with a murmuring noise; to receive
a buxx of approbation.—To cajole; to dupe, by a plausible tone of voice; to flatter by soothing words. (Colleoutelly used) loquially used.)

7. The noise made by bees or insects during flight; the

sound given forth by a revolving top, or whirling-wheel, &c.; a murmur; a buzz; a droning sound.

"The shard-borne beetle with his drowsy Aums."-Shake "The shard-corns necessary and the strength of the Any inarticulate, or murmurous and buzzing sound; as, (1.) A low, confused sound, as of crowds at a distance.

(2.) A low, inarticulate sound, uttered by a speaker in a dause of hesitation or embarrassment. "Hum and has pause of hesitation or embarrassment. "Hum and ha will not do the business." (Dryden.) (3.) A subdued expression of applause; a buzz or murmured utterance of approbation.

"Ye bear a & m in the right place."-

—A hoax; a deception; an imposition; a bam.
Huma, interj. Ahem; hem; a sound given with a pause, implying hesitation, doubt, embarrassment, or deliber

"Hum ! I guess at it."-Shake

Hu'man, a. [Fr. hamain; Lat humanus, from homo, a man, a human being. Etymol. unknown.] Belonging to man, or mankind; having the faculties, qualities, or attributes of a man; pertaining or having reference to the race of man; as, human nature, human life, a human

"To err is human, to forgive divine."—Pope

—n. A human being; a creature of mankind. (a.)

Humane', a. [Fr. humain; Lat. humanus.] Having
the feelings or dispositions proper to man; possessing
and exhibiting tenderness and compassion; kind; benevolent; pitiful; compassionate; merciful; inclined
to treat the brute creation with kindness;—opposed to

Humane'ly, adv. In a humane manner; kindly; tenderly; compassionately; benevolently; as, he was treated humanely.

Humane'uess, n. State or quality of being humane;

humanity tenderness; compassion.

Human'ica, n. sing. The science of human nature; the doctrine of humanity.

Human'ify, v. a. [Lat. humanus, human, and facere, to make.] To make human; to endue with the personality of human nature; to incarnate. (E.)

the U. States and Great Britain, and especially, July, 1812, the capture of the Inglial frigate, the Guerrier, which surrendered after having lost all its masts and 70 men killed and wounded. It was then in command of the frigate Constitution. D. in Philadelphia, 143.

Hull, a river of England in Vorkshire, low from the E. Wolds into the Humber, at Hull. Length 20 m. Hull, or Einoston-uron-Hull, a particular mentary borough and seaport of England, in Vorkshire, low from the S.E. of York, and 100 m. N. of London, at the configuration of the middle double and cotton goods of the middle double and cotton goods of the middle doubles, with all of which it is in direct.

Humanita'riam, s. [Fr. humanitaire.] A term sometimes applied to those who deny the divinity of Christ, and assert Him to have been sore men. The term, howers, is also sometimes applied to those who deny the divinity of Christ, and assert Him to have been sore men. The term, howers, is also sometimes applied to those who deny the divinity of Christ, and assert Him to have been sore men. The term, howers, is also sometimes applied to those who dony the divinity of Christ, and assert Him to have been sore men. The term, howers, is also sometimes applied to those who dony the divinity of Christ, and assert Him to have been sore men. The term, howers, is also sometimes applied to those who dony the divinity of Christ, and the separate in the separate him to have been sore men. The term, howers, is also sometimes applied to those who dony the divinity of Christ, and search Him to have been sore men. [Fr. humanita'riam, s. [Fr. humanita'riam, s. [Fr. humanitai'riam, s. [Fr. human

Humanita'riamism, n. The doctrines advanced by the humanitarians

the humanitarians. Humaniti; Lat. humanita, from humanus, human.] The peculiar nature or individuality of man by which he is distinguished from other being; state or quality of being human, or of the race of mankind.—The human race; the collective body of mankind.—

ring, and how

The kind feelings, dispositions, and sympathies of man, by which he is distinguished from the lower orders of animals.—Quality of being humane; kindness; beneve-lence; compassion; exercise of philanthropy; acts of tenderness and charity.

"How few, like thee, enquire the wree And court the offices of soft human

Liberal education, or mental education; training and polishing of the faculties given to man; teaching in classical studies, and polite literature.

pd. The branches of elegant learning or polite literature, including grammar, rhetoric, poetry, and the study of the ancient classics.

Humanisa'tion, n. Act of humanising, or render-

ing human. ing human.

Hu'manine, v. a. [Fr. humaniser.] To make human;
to civilise; to render humane; to subdue or eradicate
barbarous dispositions in, and convert to susceptibility
of kind feelings and benevolent actions.

" My tears shall flow to Aum nice the flints "... We

-v. n. To become human; to be made humane or more humane; to become civilized, improved, or made more excellent.

Hu'maniser, s. One who humanises or renders humane.

Hu'mankind, s. Mar human species of beings. Mankind; the race of man; the

"This is the porcelain clay of he

"This is the percelain day of humanhind."—Dryden.

Hu'mmanly, adv. In a human manner; after the
manuer of mankind; according to the notions, opinions,
power, or knowledge of men.

Hu'mmanwille, in Missouri, a post-village of Polk co.,
abt. 110 m. S.W. of Jefferson City.

Humation, (humd'shon,) n. [Lat. humatio.] Interment; act of inhumating or burying. (a.)

Humb'ber. [Lat. Abus.] one of the largest rivers in

England, dividing Yorkshire and Lincolnshire. It is
formed by the Ouse, Ayr., Dun, and Trent, and fails after
a course of 36 m. into the German Occau.

Humb'ber, a river of Newfoundland, enters the Gulf
of St Lawrence through the Bay of Islands. Langth,
abt. 150 m.

of St Lawrence through the Pay of Islands. Lawrence, abt. 156 m.

Hums'-bird, n. (Zod.) The Hummire-map, q. s.

Humsble, (umbl.) a. [Fr., from Lat. humble.—hums, earth, the ground.] Near the ground; not high or lofty; low; mean; poor; insignificant; unpretending; as, a humble dwelling, humble fare.

"From humble Port to imperial Tokay." - Toursier.

Lowly; modest: meek; submissive; not proud, arregant or assuming; diffident; without self-sufficiency or undue aspirations or pretensions.

"A soft, meek, patient, humble, tranquil spirit."

To eat humble pic, to take up with humble fare; to be reduced to a mean diet;—hence, to endure dispraise, mortification, or abssement; to swallow an insuit or each dure an injury without resentment; to appear meanly; to act cowardly. (Said to have originated from a former custom of eating of a pie made from the Aumbles (entrails) of a deer.)

to abase; to lower; to depress; to degrade; to reduce from power or importance to lowliness or insignificance. "The executioner falls not the axe upon the & But first begs pardon." — Shake.

To make humbly or lowly in mind; to abase or cut down the pride of; to make to condescend; to make meek and submissive; to mortify or make ashamed.

"Fortune not much of humbling we can boast."—Fapt.

Hum'ble-bee, n. (2021) See Arms.

Hum'ble-cow, n. A cow without horns.

Hum'ble-mouthed, a. Mild; meek; staid; denure.

"You are meek and humble-mouthed, but your heart is cramm'd with arrogancy."—Shake.

Hum'bleness, a. State or quality of being humble or lowly; humility; meckness; diffidence.

A grain of glory, mixed with humbleness, Cures both a fever and lethargioness." — Herbe

Hum'ble-plant, n. (Bot.) See MIMOSA. Hum'bler, n. He who, or that which humbles or

mortifies.
Hum'bles, (also written Unbles,) s. pl. (Fency.) The

Hum'bles, (also written entrails of a deer.

Hum'bly, ade. In an humble manner; meekly; submissively; with modest humility; lowly; as, I humbly ask your pardon.

"They ... come humbly as they used to creep to holy alters." Sals.

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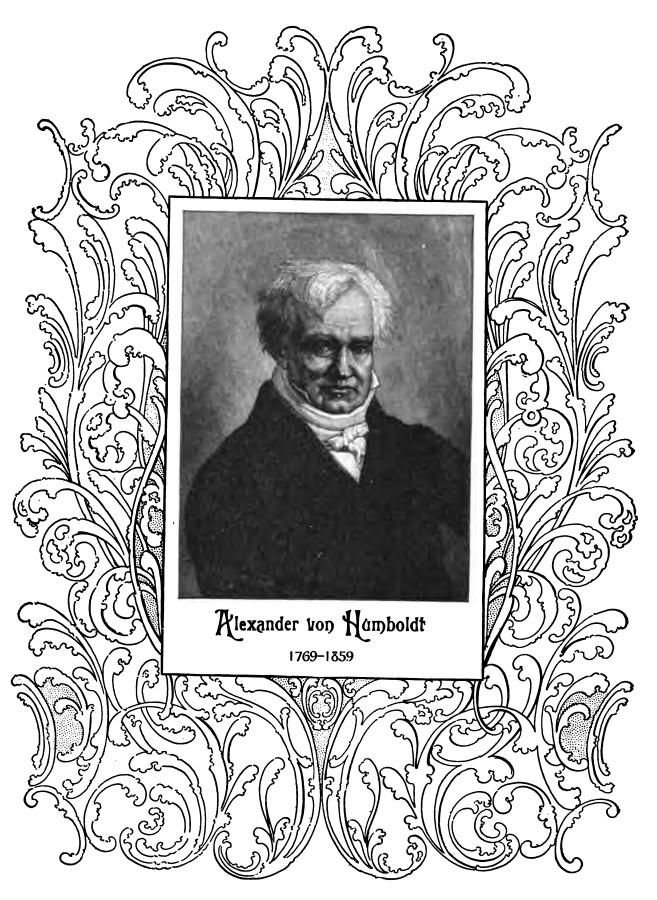


Figure boldt, Friedrich Heinrich Alexander von, the greatest naturalist of his time, s. at Berlin, 1769, the same year that gave birth to Napoleon, the Duke of Wellington, and many other distinguished persons. He was educated at Frankfort-on-the-Oder, Güttingen, at Hamburg, and at the mining-school of Freiberg. From the earliest period he evinced a faculty for physical inquiry, which he assiduously cultivated by the study of chemistry, botany, geology, and galvanism. At Güttingen he became acquainted with George Forster, to whose Delineation of the South-Sea Islands he attributes the earliest excitement of his desire to visit the tropics, and in company with whom he made his first tour. In 1790 he accompanied Forster in a tour through the Rhine districts and Holland, and afterwards visited England with him. His scientific observations made in Germany were afterwards published in 1790, under the title of Kinaralogical Considerations on Certain Basaltic Formations on the Rhine. His intention being to seek employment in the civil service of the Prussian kingdom, he subsequently went to Hamburg to study book-keeping and the other forms of commercial knowledge, and afterwards studied in the mining academy of the eminent Werner, at Freiberg. In 1792 he obtained the poet of mining superintendent in the works of Bayreuth, in which situation he remained till the year 1795, during which time he wrote many scientific articles for the German periodicals, and published a botanical work in



Fig. 1328. — ALEXANDER VON HUMBOLDT.

Temperature of various portions of the Earth's Surface; Progness of Assistant Geology and Climatology; and Enter the production of this work he resigned his posts after the production of this work he resigned his posts after the production of this work he resigned his posts as the production of this work he resigned his posts as the production of the Ward of the Land Bolder of the Profession of the Land of the Profession of the Statesth Charles 2. 1889. The best blogging the production of the Ward of the Land of the Profession of the Land of the Profession of the March of the Care of the Land of the Profession of the March of the Land of the Profession of the March of the Land of t

Washington and Philadelphia succeeded, after which he quitted America for France, and arrived at Bordeaux in August, 1804. He spent nine months in Paris arranging his notes, and assisting Gay-Lussac in making some extreme northwestern corner of the State.

Humboldt, in Michigan, a post-village of Marquette and the chamical companies to the chamical control to the Washington and Philadelphia succeeded, after which be quitted America for France, and arrived at Bordeaux in August, 1804. He spent nine months in Paris arranging his notes, and assisting Gay-Lussec in making some experiments relative to the chemical composition of the atmosphere. After spending a short time in Italy and at Berlin, where he obtained permission from the king to take up his residence in the French capital while his works were being printed, he returned to Paris. In 1807 appeared the first of a large number of volumes, all published under the general title of Travels of Humbold and Bompland in the Interior of America briveen the years 1799–1804. In this magnificent undertaking, composed partly in Latin, partly in French, he was assisted by Oetmans for the astronomical, Arago and Gay-Lussac for the chemical and meteorological, Cuvier for the zoological, and Klaproth for the mineralogical di-Jussac for the chemical and meteorological, Cavier for the soölogical, and Klaproth for the mineralogical divisions. It was mainly divided into six great sections, which again were subdivided into many more, the botanical portion alone consisting of 'wenty volumes, embellished with 1,200 plates. He spent a portion of the years 1827-28 at Berlin, whither he had been invited by the king of Prussia; in 1829 he, at the express desire, and at the sole expense, of the emperor Nicholas, set out with Rose and Ehrenberg to explore the eastern provinces of Russia, and in nine months travelled, between St. Petersburg and the Chinese frontier, over a distance of 2,320 geographical miles. The results of this expedition were published by him at Paris in 1843, under the title of, Central Asia; Researches on its Montain-chains and Climatology. Between the years 1830 and 1848, although he desired to keep aloof from politics, he was intrusted by the king of Prussia with several diplomatic missions to the court of Louis Phillippe. In 1848 he went to reside near the king of Prussia whose court he ornamented till his death. In 1845 he commenced his great work Kosmos, or a Physical Desiration of the Privace which were residently as the second of the Privace which were residently as the second of the Privace which were residently between the court of Louis Phillippe. whose court he ornamented till his death. In 1845 he commenced his great work Kosmos, or a Physical Description of the Universe, which was concluded in 1851, and which has become exceedingly popular in an English translation. He was a member of almost every scientific body in the world; an associate of the Academy of Sciences of Paris and Berlin; was decorated with many orders, and was a grand officer of the French Legion of Honor. By the labors of his long and valuable life he earned the title of creator of the science of comparative geography, and reviver of the study of the natural sciences. In addition to those already quoted, a few of his most important works may be given: comparative geography, and review to the study of the matural sciences. In addition to those already quoted, a few of his most important works may be given: Essay on the Chemical Analysis of the Atmosphere; Pictures of Kature; Essay on Electrical Fishes; Essay on the Geography of Plants; Cuses of the Difference in Temperature of various portions of the Earth's Surface; Fragments of Asiatic Geology and Climatology; and The Progress of Nautical Astronomy during the Pifteenth and Stateenth Centuries. D. 1809. The best blography of this great man is that of Prof. Karl Bruhns (3 vols., 8vo., Leipsic, 1872), excellently translated into Raglish by the Missee Lassell (4 vols., 8vo., Loudon, 1872), EHum'boldt. Carl Wilhelm Baron von, a distinguished philologist, classical critic, and diplomatist, was elder brother of the above; with whom he pursued an educational career at the universities of Göttingen and Jena. When very young, he wrote many essays on the

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Greek poets and philosophers; but his first work of consequence was a critical essay on Güthe's "Hermann and Dorothea." In 1802 he was nominated to the post of minister plenipotentary to Rome; resigning this in 1808, he became head of the department of public instruction, which he quitted to retire into private life, two years afterwards. In 1812 he became Prussian ambassador at the court of Vienna; represented his country at the conference of Prague, in 1813; and signed, with Hardenberg, the treaty of Paris. In 1819 he was recalled from England, where he was ambassador, to Berlin, to assume the functions of minister and privy councillor; but not agreeing with his sovereign as to his retrograde policy, he tendered his resignation, and once more sought a retired life. He now occupied himself with the study of classical and semi-civilized languages and comparative grammar, varying these pursuits with critical essays on poetry, philosophy, and the fine arts. He published as small number of poems, but, on the advice of Schiller, he abandoned creative for critical anthorship, for which his mind was more fitted. He wrote critical essays on Sanskrit poetry, and on Wolfs edition of Homer's "Odyssey;" published An Ezamination of the Basque Language, and a treatise on the Celts and Iberians; besides a very large number of smaller works on classical literature and on speculative physiology. The latter years of his life were occupied with the study of the Malay and American languages; but failing health caused him to abandon the American in order that he might conclude his researches in the Malay tongue. At the time of his death he had almost completed his task, and his work was afterwards published by Dr. Buchmann, in 1836. D. 1835.

Humn'boldt, in Culifornia, a N.W. co., bordering on the Pacific Ocean; arro, abt. 2.880 sq. m. Rivers. Kel, Elk, Mad, and Mattole rivers. Surfice, diversified: soil, fertile. Min. Iron ore and gypsuin. County-tows, Eureka. Pop. (1800) 23,469.

Humn'boldt, in Illiaois, a thriving post-village

on the Great Northern R. R., about 10 m. S.E. of the extreme northwestern corner of the State.

Humboldt, in Michigan, a post-office of Raynolds co. Pop. (1894) 580.

Humboldt, in Michigan, a post-office of Raynolds co. Humboldt, in Necada, a N.W. co., adjoining Oregon; area, about 16,580 sq. m. Ricers. Humboldt and Owyhese rivers, besides numerous lakes. Surface, mountainous. Soil, in some parts fertile. Mis. Gold, silver, and sulphur. Cop. Winnemucca. Pop. (1889) 3,434.

Humboldt, in Tenuessee, a post-village of Gibson co., about 82 m. N.E. of Memphis. Pop. (1897) 1,854.

Humboldt in Wiscousia, a township of Brown co.—A village of Milwaukee co., about 5 m. N. of Milwaukee city.

Humboldt Bay, in California, an arm of the Pacific Occan, in Humboldt co., about 270 m. N. of San Francisco. It is one of the best harbors on the coast, having 21 feet of water on the bar.

Humboldt House, in Nebraska, a post-office of Humboldt co., on the Humboldt river and the 80. Pac. R. R. 40 miles S.W. of Winnemucca.

Humboldt Live, m. (Mis.) A var. of Meilite, q. m., occurring in crystals in goodes, in lava at Mount Somna, near Naples.

Humboldt ine, m. (Mis.) A yellow substance found in brown-coal at Koloseruk, Bohemia, and Kettle Point, Canda. Sp. gr. 213 to 248. Comp. Oxalic acid 421, protoxide of iron 421, water 15-8. When insulated, it becomes negatively electrified by friction.

Humboldt Eiver, a (Mis.) A substance of the Humboldt Eiver, but has no outlet.

Humboldt Eiver mountains, in Nevada, a mountain chain of Lander co., running N. and 8. Humboldt Eiver on the Walope.

Humboldt River is on their W. slope.

Humboldt River on the slope.

Humboldt River is on their w. slope.

Humboldt R

a fool.

• a. To impose on; to hoax; to trick; to deceive; to mislead; to cajole;—in short, to make a fool of, or to cause one to feel or appear ridiculous. (Colloquially

Hum'bug, in California, an unimportant village of Plumas o

Hum'bugger, n. One who humbugs another or

Plumas co.

Hum'burger, n. One who humbugs another or others.

Hum'burgery, n. Art of humbug; practice of trickery or imposition.

Hum'druma, a. [Icel. humma, to hum, and drumm, a drum] Dull; stupid; trite; dejected; tedious; as, "an old, humdrum fellow."—Addison.

Humme, Davin, a celebrated English historian, philosopher, and miscellaneous writer, s. at Edinburgh, 1711.

He was designed for the law, but having no inclination to thist profession, he became, in 1734, clerk in an eminent mercantile house at Bristol. He did not, however, continue long there; for, having a strong propensity to literature, he resolved to apply himself to study, and for the sake of seclusion went to France, where he wrote his Treatize of Human Nature, published fin London in 1738. This work, however, excited no interest, friendly or hostile, on its first appearance. It holds an important place in the history of philosophy, as a lucid, logical development of the sceptical conclusions that flow from the philosophy of John Locke. H.'s Essays,



Fig. 1329. — DAVID HUME, (after Allan Ramsay.)

oral, Political, and Literary, appeared in 1742 and 1752, and were favorably received. In 1745 he was in-vited to reside with the young marquis of Annandale, whose state of mind rendered a guardian necessary. Here he spent a year; meanwhile, the chair of moral philosophy in the university of Edinburgh having become vacant, he became a candidate, but failed. In 1746 he became Secretary to General St. Clair, whom he accompanied to the courts of Vienna and Turin. In 1752 appeared at Edinburgh his Inquiry concerning the Principles of Marals, which of all his writings is considered the best. In 1754 he published the first volume of his History of England, which he did not complete till 1761. While this work was in progress he published The Natural History of Religion, which was attacked by Warburton in an anonymous tract, ascribed at the time to Mr. Hurd. His great work, The History of England, had now acquired considerable celebrity, and the author gained largely by its popularity, for besides the profits it brought him, he obtained a penison through Lord Bute. In 1763 he accompanied the Earl of Hertford on his embassy to Paris, from whose fashionable and literary circles he received an enthusiastic welcome; and where, in 1765, he remained as charge d'affaires. The year following he returned home, accompanied by Jean Jacques Rousseau, to whom he behaved with great delicacy and generosity, but was ill required by the morbid sensitiveness and suspiciou ness which the "philosopher of Genera" allowed himself to indulge against his friend and benefactor. He became undersecretary of State in 1767. In 1769 he returned to his native country on an independent income of £1,000 per annum, and D. 1776.

Humme, in New York, a post-town and township of Huron country.

Humme, in New York, a post-town and township of

county. in New York, a post-town and township of Allegany co., 12 m. N. W. of Angelica. Pop. (1897)

Allegany co., 12 m. N. w. u. angular about 2,100.

Humec'tant, a. [Fr., from Lat. humecto, humectans, to wet.] (Mod.) Applied to medicines which are supposed capable of softening by making the solids of the body moist.

Humec'tate, v. a. To wet; to moisten. (a.)

Humectation, n. [Fr.] The act of wetting; moistening (R.)

Humsectation, a. [Fr.] The act of wetting; moistening. (a.)

Hu'mefy, v. a. [From Lat. humidus, moist, and facie, to make.] To make moist; to soften with water. (a.)

Hu'mefy, v. a. [From Lat. humidus, moist, and facie, to make.] To make moist; to soften with water. (a.)

Hu'meral, a. [Fr. humidal, from Lat. humerus, the shoulder.] That belongs to the humerus or shoulder.

H. Artery. (Anat.) The axiliary artery, which name it retains in its course down the arm to the bend, where it divides into the radial and ulnar arteries.

Hummerpoor, (hoo'merpor.) a district of Hindostan, in the N.W. provinces, extending from Lat. 24° to 27° N., Lon. 71° to 74° 20° E. Manuf. Cotton, paper, and sugar-refining. Prod. Corn, sugar, cotton, and indigo. The country is mostly level. Pp. 330,000.— Its cap, of the same name, is on the right bank of the Jumna, 150 m. N.N.W. of Agra; pop. 17,100.

Hu'merus, s. [Lat.] (Anat.) The bone of the arm. It constitutes the first of the radiated system of bones of the anterior extremity in vertebrated animals, articulated with the scapula.

ticulated with the scapula.

Huma hum, n. A kind of plain, coarse, Indian cloth made of cotton.

marie of cotton.

\*\*Mu"mbe Acid. n. [From Lat. humus, the ground.]
(Chem.) An acid obtained from humus, by treating it
with a dilute boiling solution of caustic potassa and
adding an acid. The H. A. is precipitated as a flocculent
brown substance but alightly soluble in water.

adding an acid. The H. A. is precipitated as a floculent brown substance but slightly soluble in water.

Hu'mid, a. [Fr. humids; Lat. humidus, from humeo, to be moist or damp.] Moist; damp; containing sensible moisture; somewhat wet or watery.

Humid'ity, n. [Fr. humidis.] Moisture; dampness; a moderate degree of wetness; moisture in the form of visible vapor, or perceptible in the air.

Hu'midly, ade. In a humid manner.

Hu'midly, ade. In a humid manner.

Hu'midly, ade. In a humid manner.

Hu'midly, ade. In a humidity.

Hu'miffuse, a. [Lat. humijusus, from humus, the ground, and fundo, I pour or spread out.] (Bot.) Applied to plants which spread over the surface of the ground: procumbent.

Humil'iste, v. a. [Lat. humijusus, from humidis, humble.] To abase: to humble; to lower in condition; to depress; to mortify.

Humil'istating, p. a. Humbling; depressing; alating pride; reducing self-confidence; mortifying.

Humili'ston, m. [Fr., from Lat. humiliatio.] Act of humbling; state of being humbled; descent from an elevated state or rank to one that is low or humble; act of abasing pride. — The state of being reduced to lowiness of mind, meckness, penitence, and submission; abasement of pride; mortification; depression dejection.

Humil'ity, m. [Fr. humiliti; Lat. humilita, from humilits, humble, low.] Humbleness of mind; a deep sense of one's own worth: lowliness of mind; a deep sense of one's own unworthiness in the sight of God.

Humil'n, m. (Chem.) A black substance found in the humus of the soil, and obtained also by boiling sugar with sliphuric acid.

Humil'acees, n. pl. (Bn.) An order of plants, alliance Ericales. Dag. Polypetalous flowers, perfect monadelphous stamens, and 2-celled anthers with a long membranous connective. — They are trees, or shrubs, with a balsamic juice. Their leaves are alternate, simple, coriaceous, and exatipulate. The calyx is 5-parted and imbricated. The petals are also imbricated, and 5 in number. There are 20 or more stamens. The ovary, which is superior, is usually surrounded by

has a narrow embryo, lying in fleshy albumen. From the incised stem of the species Humirium Horibundum, a yellow liquid, called balsam of umiri, is obtained; this is said to resemble copaiba and balsam of Peru in the properties. Other species are said to yield useful balsamic liquids. The order consists of 3 genera and 18 species, all natives of tropical America.

Humphreys, in Hissonri, a post-village of Sullivas co., on Q., O. & K. C. R. R. Pop. (1890) 327.

Humphreys, in Hissonri, a post-village of Sullivas co., on Q., O. & K. C. R. R. Pop. (1890) 327.

Humphreys, in Hissonri, a post-village of Columbia co. Pop. (1897) about 100.

Humphreysville, in New York, a post-village of Columbia co. Pop. (1897) about 100.

Humphreysville, in Penseyleania, a village of Lackawana co.

Humphreys (wm/freez), in Tennessee, a N. W. co.; area, about 429 sq n. Bieera. Tennessee and Duck rivers, besides many smaller streams. Surface, undo-like in the surface. Humphreysville, in New York, a post-village of Columbia co. Pop. (1897) about 100.

Humphreys, in Humphreys (wm/freez), in Tennessee, a N. W. co.; area, about 429 sq n. Bieera. Tennessee and Duck rivers, besides many smaller streams. Surface, undo-likers, besides many smaller streams. Surface, undo-likers,

from the kernel.

Human mel, Johann Neromue, (hoom/mel.) a German composer and pianist, s. at Presburg, 1778. He displayed great musical talent from his earliest youth, became chapel-master to Count Esterhazy in 1803, and afterwards to the king of Würtemberg, in 1818. He was only excelled in instrumental composition by Beethoven.

only excelled in instrumental composition by Beethoven. He composed four operas, two masses, and a large quantity of smaller musical pieces. D. 1837.

Hum'meller, a. One who hummels.—(Agric.) An implement or machine used for hummelling barley—that is, removing the awn from the grain after it has been threshed. A common kind of H. is a set of blunt knives fixed in a frame, with a handle, by means of which they are used in the manner of stamping. Another form consists of blunt knives set on a roller. These implements are worked by the hand. But hummellers of various construction are often attached to threshing-machines, in all of which blunt knives are made to pass frequently through the grain.

mellers of various construction are often attached to threshing-machines, in all of which blunt knives are made to pass frequently through the grain.

Hum'mel's Store, in Pennsylvania, a post-village of Berks co. Pop. (1887) about 100.

Hum'mel'stown, in Pennsylvania, a post-borough of Dauphin co., on P. & R. R. R., 10 m. E. of Harrisburg. Fine building-stone abounds. Pop. (1897) about 1,520.

Hum'meer, s. He who, or that which, hums. (Slang.) A hig drink of leal whiskey.

Hum'ming, p. a. Making a low buxzing sound.

—a. The sound of bees; a low murmuring.

Hum'ming-bird, n. See Trocelling.

Hum'mock, n. A level sheet of ice. — A circular mound seen at a distance; a hillock; a hommock. — In Florida, a fertile and timbered tract of land.

Hum'mock, p. a. Full of hummocks.

Hum'mocky, a. Full of hummocks.

Hum'mocky, a. Full of hummocks.

Humor, Humour, (yi'mor,) n. [Fr. humeur; Lat. humor, a liquid, from cheo, to pour.] A liquid or finid; moisture; — more especially applied to every fluid substance of an organized body, as the blood, chyle, lymph, &c., some of which were formerly supposed to determine the temper of the mind. — An animal fluid in an unhealthy state, causing eruptive diseases; cutaneous eruptions. — Turn of mind, or peculiarity of disposition, often temporary; temper; disposition; mood; whim; caprice; that quality of the imagination which gives to ideas a wild and fantastic turn, and tends to excite laughter or mirth by ludicrous images or representations; merriment; jocularity; burleque; wit. — Petulance; peevishness; a trick; a pracimages or representations; merriment; jocularity; bur lesque; wit. — Petulance; peevishness; a trick; a prac tice or habit.

leaque; wit.—Petulance; peevishness; a trick; a practice or habit.

—. a. To gratify or indulge the humor of; to gratify by yielding to a particular inclination, humor, wish, or desire; to indulge by compliance; to suit; to indulge: to favor by imposing no restraint, and rather contributing to promote by occasional aids.

Humoral, (humer-al,) a. Pertaining to, or proceeding from, the humors of the body.

H. Puthology. (Med.) A once favorite theory of physicians by which they accounted for the remote cause of all diseases, by attributing them to a disordered state of the humors or fluids of the body.

Humoralistan, a. (Med.) Humorism.

Hu'moralistan, a. A humorist.—(Med.) A follower of the humoral pathology.

Humoralistan, a. That produces humor.

Hu'morism, a. The disposition of a humorist.

(Med.) The doctrine of the humeral pathology, q. v.

Humorista, a. [Fr. humorist.] One who gratifies his own humor, fancy, inclination, or bent; one who indulges in speaking or writing; one who has playful fancy or genius; one who has odd conceits: also a wag; a droll.

Humorless, a. Without humor.

Hu'morless, a. Without humor.

Hu'morless, a. Without humor.

Containing humor; full of wild or fanciful images; adapted to excite laughter; jocular: witty; jucose; whimsical; having the power to speak or write in the style of humor: exciting laughter.

Hu'morously, adv. In a humorous manner; in a manner to excite laughter or mirth; pleasantly; jocosely; whimsically.

manner to extend anginer or mirti; pleasantly; jocosely; whimsically.

Hu'morousmess, n. State or quality of being humorous; oddness of conceit; jocularity; capriciousness.

Hu'morsome, a. Influenced by the humor of the moment; pervish; petulant; odd; humorous; adapted to excite laughter.

Hu'morsomely, adv. Peevishly; petulantly; oddly;

Hu'morsomely, adv. Peevishly; petulantly; oddly; humorously.
Hump, n. [Du. homp, a lump; Lat. umbo, any convex elevation, a bose of a shield, from the root nub, which appears in Sans. nabhi, the navel.] Any convex elevation. — The protuberance formed by a crooked back. Humpbacked person.
Humpbacked person.
Humpbacked, a. Having a crooked back.
Humpbacked, (humpt.) a. Having a hump or protuberance on the back.
Humpbarey, in New York, a post-township of Cattaraugus co., about 50 m. S.E. of Buffalo.

Mason co., and flowing S. and W. through Chehalis co, into the Pacific Ocean.

Hn'smulus, s. [From Lat. hassus, the ground, as, unless trained or supported, it creeps on the earth.] (Bot.) The Hop, a genus of plants, order Cursarbenaces. The common hop-plant, H. ispulus, has a perennial root and annual pliable stems, which twine from right to left around any convenient support. The leaves are opposits, rough, 3-6-lobed, serrated, and veiny. The male and female flowers are generally on separate plants. The former are in loose panicles; the latter in dense catkins or strobiles, with membranons concave bracts. The hops of commerce consist of the female flowers and reeds of this plant. Their principal consumption is in the manufacture of beer, and they possess three properties which particularly fit them for this use. First, they impart to malt liquors a pleasant bitter aromatic flavor, and tonic properties. Second, they give them a peculiar headiness often confounded with alcoholic strength, and thus save the brewer

with alcoholic strength, and thus save the brewer



them a peculiar headiness often confounded with alcoholic strength, and thus save the brewer a certain proportion of his mait. Third, by their chemical influence they clarify the liquors and check their tendency to turn sour. Hop-plants grwm from root-sets come to perfection in the third year from planting. They spring out of the ground about the end of April, and flower about the end of August. The stroblles are fit to gather from the beginning of September to the middle of October, the time varying according to the sort cultivated and the differences in the seasons. When picked, they are ciried by artificial heat, in klins, and then packed in bags or pockets. Upon the bracts and scales are numerous little yellow shining grains, generally roundish or kidney-shaped. They have been termed isputinic gland, and are believed to be the most active parts of the hops. Of the cultivated hop there are many varieties; but in the principal English hop countries, hops are used medicinally for their stomachic and tonic properties. They are, to some extent, narcotic; and a pillow stuffed with them is occasionally employed to induce sle-p. H. are largely cultivated in some of the States, chiefly in New York. The production of hops in the U. S. has greatly increased. For the fiscal year ending June 30, 1808, the importation of hops amounted to 3,270.995 pounds. The production of hops amounted to 3,270.995 pounds. The production of hops in the U. S. has greatly increased. For the fiscal year ending June 30, 1808, the importation of hops amounted to 3,270.995 pounds. The production of hops in the U. S. has greatly increased. For the fiscal year ending June 30, 1808, the importation of hops in the bear of the second of the seco

have but little root.

Hu-man, a central prov. of China, between Lat. 25° and 30° N., and Lon. 100° and 114° E. See China.

Hunch, a. [Allied to Ger. Abcker, any unevenness or inequality, a hump; and also to hump, bunch.] A hump; a protuberance; a lump; a thick piece. — A push or jerk with the flat or elbow.

—c. a. To strike or punch with the flats; to push with the elbow; to push or thrust with a sudden jerk.

Hunch back, a. A humpback.

Hunch backed, a. Having a crooked back.

Hum dired, a. [A.S. hund; Ger. hundert.] Denoting the product of ten multiplied by ten, or the number of ten times ten.

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or a hundred manors.

Hun'dred and Two, in Kissouri, a river rising in the N. part of the State, and entering the Platte River in Buchanan co.

in Buchana Do., 1815, the day on which Napoleon I. entered Paris on his return from Elba, to June 29, the day on which hapoleon I. entered Paris on his return from Elba, to June 29, the day on which he quitted it for the last time.

Hun'dreeder, a. An inhabitant of a Hundbard.

—a. One of a hundred equal parts into which a whole is, or may be, divided; the quotient of a unit divided by a hundred.

—a. One of a hundred equal parts into which a whole is, or may be, divided; the quotient of a unit divided by a hundred.

—a. One of a hundred equal parts into which a whole is, or may be, divided; the quotient of a unit divided by a hundred.

—a. One of a hundred equal parts into which a whole is, or may be divided by a hundred.

—a. One of a hundred the Hundred Paris of the hundred and ton. It is generally expressed by the abbreviation cot. Hundred Paris of the Hundred Paris of the Hundred Paris, to a height of 3,000 feet. It lies between the Moselle and the Naha, and joins the mountain-chain of the Vosges.

Hungarian, a. (Gegy). That relates or belongs to Hungary.

—a. (Geg.) A native of Hungary.

Hungary. [Oer. Ungars; Magyar, Orzed.]. An extensive country in Central Europe, forming, under the title of kingdom, a considerable portion of the Austrian dominions; Lat. from 490 to 49 34 N., Lon. 16 to 25 S E. It is bounded W. by part of Germany, N. by Garlick, E. by Moldavia and Wallachia, and S. by Turkoy. Area, 194, 508 eq. m. Dividences. Hungary proper Carea, 194, 508 eq. m. Dividences. Hungary Hundred Interest of the Proper Carea, 194, 508 eq. m. Dividences. Hungary Hundred Interest of Carea, 194, 509 eq. 194, 509 eq. 194

of woollens, silks, linens, paper, leather, oil, beer, and tobacco. Commerce. Exp. The chief are corn, tobacco, wine, particularly that of Tokay, and wool; also wax. tallow, potash, alum, antimony, gall-nuta, &c. A little leather, linen, and iron are also sent out of the country. Imp. Chiefly manufactured goods and colonial produce. Nearly 1,000 vessels, some of which are steamicosta, ascend and descend the Danube, engaged in carrying on the trade between the principal towns of Hungary and Vienna. The roads are generally not good, but railway communication is progressing. Religion. Roman Cathelic, Greek Church, and Protestant, the former in the ascendant. Education is not, on the whole, well diffused, but the higher classes are well-cultured and highly intelligent.—Gort. See Austria.—Pop. (1897) abt. 18,105,400, of which 13,220,700 are in Hungary proper.—History. In the time of the

the time of the Romans, the country now called Hungary formed the western por-tion of Dacia and tion of Dacia and the south of Pan-nonia. In the 3d century the Goths occupied all this portion of Europe, and these w driven out in 876 driven out in o.c. by the Huns, whose name, it is said joined to that of the Avari, gave its title to the its title to the country. After the death of Attila, in death of Attim, ...
453, the Ostrogoths,Gepidse, and
Lombards disputad the possession and the possession of the territory. Subsequently, in the 7th century, the Avari made themselves mas-



Fig. 1331. - A COUNTRYWOMAN.

Subsequently, in the 7th century, the Avari made themselves masters of the land, but had to defend it against the incursions of the Slaves and Bulgarians. Charlemagne having conquered the Avari in 799, the Magyars, a people of Asiatic origin, who, a century before, had established themselves on the Don and Dnieper, entered Hungary in 394. Arpad, the son of Almus, was their leader, and allying himself with the emperor of Germany, he decated most of the tribes who then occupied the country. His successor embraced Christianity; and Stephen I., called the Saint, who had been the chief of the Magyars since 997, took the title of king in the year 1000. This prince completed the subjugation of the Slaves and Bulgarians, and to him Hungary owed the greater portion of her social institutions. After his death, in 1038, the land was a prey to internal dissensions until the accession of Ladislaus I., who brought peace to his people; he conquered Croatia and Slavonia, to which his successor Coloman added Dalmatia. Under Geysa II., 1143, Transylvania received a number of Flemish immigrants. Bela III., who had been bred at Constantinople, introduced into the state civilization and the manners of the Greek empire. He married Margaret, sister of Philip Augustus, of France, and widow of Henry, son of Henry II., of England; and under him Hungary was divided into comitats. Andrew II. led the fifth crusade to the Holy Land, in 1222, and by his weakness allowed the privileges of the nobles to increase. Under Bela IV., his son, the Mongols ravaged the land: and after him the royal power, weakened by intestine discord and foreign wars, was reduced to the lowest condition, till the end of the reign of Andrew III., with whom closed the Arpad dynasty. The Hungarians then elected Wenceslaus of Bohemia, and after his abdication, Othof Bavaria; but Pope Boniface VIII. imposed on them Charles Robert, called Charobert, count of Anjou, and who was recognized as king in 1338. In his reign Hungary attained a high degree of prosperity; it compris

were definitively driven out in 1699 by the peace of Carlowitz. From that time to 1848 the nation remained faithful to the house of Austria, especially in the cause of Maria Theresa, and in the wars with France from 1763 to 1816, when it contributed largely to the finances and military forces of the country.— Constitution. The constitution of Hungary, including Hungary proper, Croatia, Slavonia, and Transylvania, is of very ancient date, and based mainly upon unwritten 'was that grew up in the course of centuries. There exists no charter or constitutional code; but in place of it are fundamental statutes, published at long intervals of time. The principal of them, the Aurea Bulla of King Andrew II., was granted in 1222, and changed the form of government, which until then had been completely autocratic, into an aristocratic monarchy. Almost all subsequent rulers endeavored, though with little or no success, to extend the royal prerogatives, the struggle lasting, with more or less interruption, till the year 1861, when Francis I., having failed in his attempt to weld H. to the rest of his dominions, acknowledged and took oath upon the ancient constitution. The form of government established by it is oligarchical in essence, leaving the whole legislation and internal administration of the country in the hands of the native nobility, comprising about a quarter of a million individuals, and giving to the king little more than the chief command of the army, and the right and duty to protect the realm against foreign enemies.—See Austria, Francis I., Kossuth, &c.

Sovermens CIS I., KOSSUTH, &c. SOVEREIGNS OF HUNGARY.

HUNG

1557

1000. Stephen I. (the Saint).	1308. Charobert or Charl
1038, Peter.	Robert (of Anjou)
1041. Abo.	1342. Louis I. (the Great
1044. Peter, (again.)	1382. Mary.
1047. Andrew L.	1385. Charles,
1061. Bela I.	1886. Sigismund.
1064, Salomon.	1437. Albert (of Austria)
1074. Geysa I.	1439. Elizabeth.
1077. Ladislaus I.	1440. Ladislaus IV.
1095. Coloman (the Learn-	
ed).	1458. Matthias I., (Cor
1114. Stephen IL.	nus.)
1131. Bela II.	1490. Ladislaus VI.
1141. Geysa II.	1616. Louis II.
1161. Stephen III.	1526. John Zapolsky a
1162. Ladislaus and Ste-	Ferdinand I.
phen, (usurpers.)	1540. Ferdinand I., (alon
1178. Bela III.	1663. Maximilian.
1196. Emeric.	1672. Rodolph.
1204. Ladislaus II.	1608. Matthias II.
1206. Andrew II.	1618. Ferdinand II.
1235. Bela IV.	1626. Ferdinand III.
1270. Stephen IV.	1647. Ferdinand IV.
1272. Ladislaus III.	1665. Leopold,
1290. Andrew III.	1687. Joseph.
1301. Wenceslaus.	1712. Charles.
1302. Otho.	1741. Maria Theresa.

1272. Ladislaus III. 1687. Joseph.
1290. Andrew III. 1687. Joseph.
1301. Wenceslaus. 1712. Charles.
1302. Otho. 1741. Maria Theress.
(The succession was identical with that of the emperors of Germany and Austria.)

Emm'gary-wa'ter, n. An old-fashioned but delicious perfume, for the preparation of which various recipes have been given. The following is one of the best:—Take of fresh rosemary in blossom 4 lbs., fresh sage in blossom 6 oz., ginger in slices 2 oz., cut them in small pieces, mix, and add rectified spirit 12 lbs., and common water 2 pints. Let 11 pints distil by a gentle heat. A hermit is said to have given the original recipe to a queen of Hungary; and hence it was called the Queen of Hungary; and hence it was called the Queen of Hungary; and hence it was called the Queen of Hungary is Mater. which has been abbreviated to H.W. It is employed principally as a perfume for the toilet; but it is sometimes taken internally as a restorative and stimulant; and it may be used externally as a gently stimulating liniment.

Hung'beef, n. Dried-beef; jerked-beef.

Hunn'ger, n. [A. S. hunger, hunger; Ger., Dan., and Sw. hunger; Icel. hungr; Sansk. kanz, to desire, kangha, desire.] Desire of food; an uneasy sensation, occasioned by the want of food; a craving of food by the stomach; craving appetite; a strong or eager desire.

(Physiol.) A peculiar sensation experienced in the region of the stomach, in consequence of the want of solid food. The sensation of hunger is at first rather agreeable, but it quickly becomes unpleasant, when prolonged. The sense of keen appetite is always delightful when there is a prospect of satisfying it; but that sinking in the stomach which ensues soon changes from uneasiness to absolute pain, which rapidly becomes acute; and if alliment be still held back, the sensation produced is as if the stomach were being torn by pincers. A state of general exhaustion, feverishness, headache, light-headedness, often passing into mainess, follows. The whole being seems absorbed in one desire, be



burning; and hunger is the instinct which teaches us to replenish that furnace. But although the want of food causes H, it does not itself constitute hunger. Food may be absent without the sensation of H. Idiots food causes H. it does not itself constitute hunger. Food may be absent without the sensation of H. Idiots and insane people frequently subject themselves to prolonged fasting without any hungry cravings. Violent monotons of grief or joy destroy the sense of H.; and the sensation may be allayed by opium, tobacco, and inorganic substances, such as clay, although none of these can supply the deficiency of food. In the case of those animals which remain torpid for a certain portion of the year, no food is taken, and no H. experienced. (Bee Hieranaton.) Want of food is, consequently, the primary, but not the proximate cause of H. A French philosopher made several experiments on the subject of inanition, according to which it appears that death from H. occurs when the waste reaches 0+1; that is to say, supposing an animal to weigh 100 lbs., it will die when its weight is reduced by fasting to 60 lbs. Death may possibly occur before that stage, but life cannot exist after it. In the case of human beings, death takes place on the fifth or sixth day of total abstinence from food and drink; but much depends upon the peculiar constitution of the individual, his age, health, habits, &c. Some die on the second and third day; while others can survive ten, twelve, and even a longer time. There are many records of protracted fasting, but nearly all of them are not well authenticated, and most of them are obviously fabulous. The aspect of a tarrying man is terrible. In the first place he grows while others can survive ten, twelve, and even a longer time. There are many records of protracted fasting, but nearly all of them are not well authenticated, and most of them are obviously fabulous. The aspect of a starving man is terrible. In the first place he grows excessively thin, and this thinness is not the leanness of lean men, but manifests itself by unmistakable enaciation. The face grows lividly pale, the cheeks sunken, and all the vitality of the body seems to be centred in the feverish brightness of theeyes. The pupil becomes dilated and fixed in a wild stare, which is never veiled by the eye-lids. All movements of the body are slow and difficult; the hand trembles, the voice grows feeble, and the mind weak; while the poor sufferer, when saked what he feels, can only answer faintly that he is hungry. There is very little definite information to be gleaned concerning the agonies endured by starving men. Those who have undergone the horrors are seldom able to recount them. Goldsmith says that the captain of a wrecked vessel told him that "he was the only person who had not lost his senses when they received accidental relief. He assured me his pains at first were so great as to be often tempted to eat a part of the men who died, and which the rest of his reve actually lived upon. He said that, during the continuance of this paroxysm, he found his pains insupportable, and was desirous, at one time, of anticipating that death which he thought was inevitable. But his pains gradually ceased after the sixth day (for they had water in the ship, which kept them alive so long), and then he was in a state rather of languor than desire; nor did he much wish for food, except when he saw others eating. The latter part of the time, when his health was almost destroyed, a thousand strange images rose upon his mind, and every one of his senses began to bring him wrong information. When he was presented with food by the ship's company that took him up, he could not help looking at it with loathing, instead of desir against each other, and the friction causes the sensation. This, however, is wrong; for H. is always felt some time after the stomach is empty; and, as is well known, it may be empty for days together, as in illness, without any sensation of H. Another theory is, that the gastric juice accumulates, and attacks the walls of the stomach. This, however, has been proved not to be the case. Dr. Beaument an American physician, who made, more This, however, has been proved not to be the case. Dr. Beaumont, an American physician, who made many valuable observations on a patient who had a hole in his stomach, produced by a wound, accounts for H. thus:—
"During the hours of fasting, the gastric juice is being slowly secreted in the follicles, and then retained in their tubes, thereby distending them; this distention, when moderate, produces the sensation of appetite, and when more powerful, of H." According to other writers, however, it would appear that H. is related to the general state of the system, and also to the particular state of the stomach. The stomach of a fasting animals pale, and in a state of obvious atony. No sooner, however, is food, or almost any irritant substance introduced, than the pale surface becomes visibly congested, turgescent, and its secretions pour forth abundantly. With this rush of blood the sensation of H. passes away. It is therefore argued that H is in some way dependent on the state of the circulation of the stomach.

Hunger, v. n. [A. 8. hingrian; Icel. hungrar.] To desire food; to feel the pain or uneasiness which is occasioned by long abstinence from food; to desire with great eagerness; to long for.

Hunger-bit, or Hunger-bitten, a. Suffering from

hunger.

Hungered, p. a. Pinched by want of food; hungry.

Hungerily, adv. With keen appetite; voraciously.

Hungry, a. [A. S. hungrig, hungri.] Having a keen
appetite; feeling pain or uneasiness from want of food;
having an eager desire; lean; emaciated, as if reduced
by hunger; not rich or fertile; poor; barren.

Hungry Hill, a mountain of Ireland, in Cork, 16 m.

W.N.W. of Bantry. On the top of the mountain is a

lake, whence the waters descend in a series of cascades, one failing nearly 700 feet. It is considered one of the curiosities of Ireland, and is a great resort of tourists. Hunk, n. A large piece or alice; a hunch. (Vulgar U.S.; Prov. Eng.)
Hunk'er, n. One of a political party.—This name was applied some years ago in New York to the one of two factions, the other of which was called barn-burners.
Hunks, n. [Icel. hunskur, sordid.] A sordid, covetous man: a miser: a nigrard. man; a miser; a niggard.

Hun'ley's Creek, in *Indiana*, enters Patoka River in Dubois co.

in Dubois co. **Hun'lock Creek**, in *Pennsylvania*, a post-village of

Luzerne co.

Hun'newell, in Missouri, a post-town of Shelby co.

Hun'mindes, John Corvinus, walwode of Transylvania, and general of the armies of Ladislaus, king of Hungary, was born in the beginning of the 15th century. He fought against the Turks heroically, and for the state of the state tury. He lought against the turks neroically, and for many years rendered himself so formidable to them, that they surnamed him the Devil. He was named re-gent of Hungary after the death of Ladialaus IV., in May, 1445, the young heir to the throne being held prisoner by the emperor. On his release and return to his dominions, in 1453, Hunniades lost his influence. one of his greatest achievements was his victory over the Sultan Mahomet II., whom he compelled to raise the slege of Belgrade in the summer of 1456. So great was the enthusiasm excited by this victory, that it was commonly said of the conqueror, "A man was sent from heaven, whose name was John." D. 1456, the acknowl-

neaven, whose name was John." D. 1400, the acknowledged hero of the Christian cause.

Hums, (huns,) n. pl. [Lat. Hunni.] (Hist.) The name given to several nomadic Scythian tribes, which devastated the Roman empire in the 5th century. They inhabited the plains of Tartary, near the boundaries of China, it would appear, many centuries before the Christian sera; and they were known to the Chinese by the name of Hiongun, and also Han. It was in order to put a stop to the continual aggressions of the Huns that the great wall of China was built; and after this Huns split up into two separate nations, named respectively the Northern and the Southern Huns. The the Volga, where they encountered the Alanni, whom they defeated. Here the Huns remained for some two the Bosphorus; afterwards invading Rome, under their leader Attila. After the death of Attila the Huns broke leader Attila. After the death of Attila the Huns broke up into separate tribes, and were driven back by the Goths beyond the Tansis. The Hungarians of the present day are the descendants of Huns, who once more inmigrated into Europe. Gibbon, in his "Decline and Fall of the Roman Empire," gives a fine sketch of this nation, their manners and customs.

Hunt, v. a. [A. S. huntian, to hunt; O. Ger. hundjan, farhundjan, to catch, to capture; Goth. frahinthan, to take prisoner.] To chase wild animals, particularly quadrupeds, for the purpose of extehing them for food, or for diversion; to pursue with hounds for taking, as game; to go in search of, for the purpose of shooting.—To pursue after: to follow closely; to use, direct, or manage, as hounds in the chase.

—v. n. To follow the chase; to seek wild animals for game, or for killing them by shooting when noxious; to seek by close pursuit; to search.

—n. A chase of wild animals for catching them; pursuit; chase; a seeking of wild animals of any kind for game; an association of huntsmen.

Hunt, Janzs Henry Luich, an English poet and essayist, B. at Southgate, Middlesex, 1784, the last of that band of poets which shed a contemporaneous lustre on the early part of the present century. He was the permanent.

the early part of the present century. He was the personal friend of Byron, Shelley, Hazlitt, Lamb, and Coleridge, and he is known not only as a poet and an essayint, but also as a political writer. In this latter capacity he came more than once before the public. In 1811 he was tried and acquitted for some remarks on the subject of flooging in the array, withlighed in the "Francisca". was tried and acquitted for some remarks on the subject of flogging in the army, published in the "Examiner," a journal which he had founded. He was afterwards sentenced, with his brother, to a fine of \$2,500 and two years' imprisonment for an alleged libel against the Prince Regent. Offers to remit these penalties on a promise to refrain from similar expressions for the future were firmly rejected; and on the expiration of their sentence they continued to write as before in the "Examiner." Subsequently be lived for four years in Italy, whither he had gone to set up the "Liberal." The Story of Rimini is his longest and perhaps his best known poem; and among his miscellaneous works may be mentioned his autobiography, and his essays entitled Mrn, Women, and Books; Imagination and Funcy; Wit and Humour, &c. His Correspondence has been edited by his eldest son. D. 1859.

\*\*Humst, TROMAS STERRY, P.E.S., an American cliemist,

and rumour, ac. his correspondence has been edited by his eldest son. D. 1859.

Hunt, Tromas Sterr, P. R. S., an American chemist, mineralogist, and geologist, B. in Norwich, Conn., 1826.

After passing through the usual educational course, he commenced the study of medicine and chemistry, devoted himself entirely to the latter, became chemical assistant to Professor Silliman, in Yale Coilege: was appointed chemist and mineralogist to the expedition for the survey of Canada, under Sir W. E. Logan; and discharged similar duties in the survey of Vermont. He was a member of the International Jury at the Paris exhibition of 1855, receiving the cross of the Legion of Honor; was made a fellow of the Royal Society in 1859; was for four years a lecturer in McGill University, Montreal, and (1872-78) professor of Geology in the Massachusetts Institute of Technology. He was one of the founders and first president of the Royal Society of Canada, and one of the organizers of the International Hmmt.

Geological Congress. In 1859 he invented the green ink with which greenbacks (q. v.) are printed. Ha researches into the composition of rocks were of great importance, and in organic chemistry he advanced an original theory which has gained wide acceptance. This is to the effect that all chemical compounds arise from simple types, which are represented by one or more atoms of water or hydrogen. He wrote numerous papers and several larger works on chemistry and mineralogy. Died in New York, Feb. 12, 1892.

Humst, Ward, jurist; born at Utica, N. Y., June 14, 1810; educated at Hamilton and Union Colleges, graduating in 1828; elected mayor of Utica; member of the New York Assembly. From 1865 to 1873 judge of the Court of Appeals of State of New York, when he was appointed a justice of the Supreme Court of the U. & Retired Jan. 27, 1882, and died March 24, 1886.

Humst, William Hinney, jurist and statesman, was born at Charleston, S. C., in 1824; educated at Yale College, and admitted to the lar in 1844. During the Civil Warhe was a stanch adherent of the Union cause; was appointed attorney-general of Louisiana (1876); judge of the Court of Claims (1878); Secretary of the Navy (1881). In 1826 he was sent as U. S. Minister to Russia, where he died, Feb. 27, 1884.

Humst, in Tezas, a N.E. co.; area, abt. 960 sq. m. Rivers.

Sabine, and some less important streams. Surface, uneven; soil, fertile. Cup. Greenville.

Humster, hom'ay, a river of Germany, rising in the marshes of Osnabrück, and after a N.E. course of 90 m. joining the Weser, 15 m. above Bremen.

Humster, n. One who hunta.—A dog that scents game, or is employed in the chase.—A horse used in the chase; a hunting-horse.

(2021) One of the tribe of spiders called Vensutes, hunters, because they are incessantly running or lesping about in the vicinity of their abode, to chase and seize their prey. Geological Congress. In 1859 he invented the green

Humt'er, William and John, two celebrated English anatomists, brothers, and natives of Scotland; W. was an In 1718. J. in 1728. The abilities of W. were soon distinguished, and he was appointed Physician Extraordinary to the Queen, and president of the College of Physicians. He formed an anatomical museum and a fine collection of metals, fossils, corals, shells. &c., which finally became the property of the Glasgow University. J. was at first an assistant to his brother, but his skill soon developed itself, and he ultimately was acknowledged to be the first practical surgeon in Great Britain, and greatly contributed to the advancement of the art of surgery. W. died in 1783, J. in 1793.

Humt'er, in Illinois, a village of Boone co., abt. 90 m. N.W. of Chicago.

N.w. of Chicago. **Hunt'erdon.**, in New Jersey, a N.W. co., adjoining

Pennsylvania; area, about 434 sq. m. Ricers. Delaware,
and two tributaries of the Rarian. Surface, diversi-

and two tributaries of the Karitan. Surjace, diversified; soil, generally very fertile. Cossay-form, Flemington. Pop. (1895) 35,334.

Hunt'erite. n. (Min.) A variety of Cimolitz (qx.).

Hunt'er's Isles, a group of islands, lying in a channel of the same name, off the N.W. extremity of Tasmania.

Hunt'er's Land, in New York, a post-village of Schoharie 🛚

Hunt'er's Lodge, in Virginia, a post-office of Flu-

vanna co.

Hunt'erstown, in Pennsylvania, a post-village of Adams co., 35 m. S.S.W. of Harrisburg. Pop. 450.

Hunt'ersville, in North Carolisa, a past-village of Mecklenburg co., on the Southern R.R.

—A township of Mecklenburg co.

Huntersville, in Ohio, a village of Hardin co., about 82 m. N.W. of Columbus.

—A village of Minni, co., on the Minni river, opposite.

A village of Miami co., on the Miami river, opposite

Piqua.

Huntersville, in Penna, a post-vill. of Lycoming co.

Huntersville, in West Virginia, a post-village of Pocahontas co., about 160 m. S.S.E. of Wheeling.

Hunt'tertown, in Indiana, a post-village of Allen co.

Hunt'ing, a. Relating to hunting, or to the chase.

-n. The act or practice of pursuing wild animals, for catching or killing them; a pursuit; a seeking.

Hunt'ing-cog, n. (Mach.) One more cog in the larger of two geared wheels than would be required to establish an exact relative ratio between the number of cogs in this wheel and that in the smaller.

Hunt'ing-cog, a town of England, cap. of Hunting-

cogs in this wheel and that in the smaller.

Hunt'ingdon, a town of England, cap. of Huntingdonshire, on the Ouse, opposite to Godmanchester, and 16 m. from Cambridge. Mann! Beer, and the town has an extensive traffic in coal, timber, corn, and wool. It was the birthplace of Oliver Cromwell.

Hunt'ingdon, a S.W. co. of prov. of Quebec, adjoining New York; area, about 236 sq. m. Ricers. St. Lawrence and Chateaugay rivers, besides numerous smaller streams. Surface, diversified; soil, fertile. Cop. Huntingdon. Pop. (1897) 8.864.

—A town of Quebec, cap. of the above co., on the Chateaugay river, about 50 m. S.W. of Montreal.

Hunt'ingdon, in Pennsylvania, a central co.; area, about 890 sq. m. Riters. Juniata river, and numerous smaller streams. Surface, much diversified; soil, fertile.

Mis. Iron, coal, and limestone. Cop. Huntingdon. Pop.

Min. Iron, coal, and limestone. Cap. Huntingdon. Pop. (1895) 35,751.

(1895) 36,761.
—A post-borough, cap. of Huntingdon co., on the Juniata river, and the Penna. R. R., 34 m. E. of Altooua; an important manufacturing and trade center of a rich farming and nithing region. Here is a State Reformatory and a Normal College. Pop. (1897) about 6,360.
Hun'tingdale, in Missouri, a post-vill. of Henry co.

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Hunt'ingdon, in Pennsylvania, a small village of

Luzerne co.

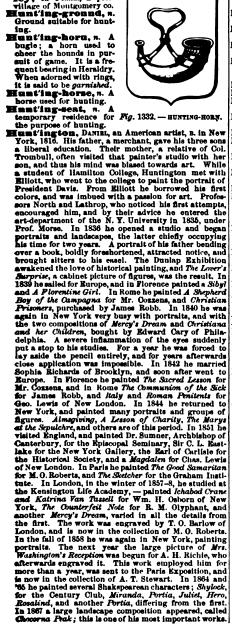
In the mat'ingdon, in Tennessee, a post-town, cap. of Carroll co., about 106 m. W. of Nashville. Pop. (1897) 762.

Mant'ingdon, in Wisconsia, a small village of St. Oroix co

Hunt'ingdom, in Wiscousia, a small village of St. Oroix co

Hunt'ingdomshire, a co. of England, inclosed by the counties of Cambridge, Northampton, and Bedford. Arca, 241,600 acres. It is almost entirely an agricultural county. The N. and N.E. parts consist of fens, which are a portion of the midiand division of that extensive tract denominated the Bedford Level, q. v. Rivers and Lakes. Towards the W. and S. the land vises considerably, leaving an intermediate valley for the waters of the Ouse, which traverses the S. angle of the county, and for various streams which fall into it from the sides of the hills. There are several large mercs or lakes, of which Whittiesea, though much smaller than formerly, is the largest. The soil is mostly clay, and there are no minerals of importance in the county. The uplands originally formed one large forest, and were peculiarly adapted to the pleasures of the chase. Up to the reign of Henry II., it was under forest law; and from the sport of hunting, the county derived its name. Prod. Wheat, eats, beans, turnips, rape, hemp, and mustard-seed. Butter is made in large quantities, and horses, cattle, and sheep of mixed breeds are extensively bred. The most celebrated article is the cheese termed Stillon, which was formerly made at a village of that name. Towns. Huntingdom, St. Ives, St. Neots, and Kimbolton. Pp. (1897) about 50,250.

Hunt'ing-ground, n. Ground suitable for hunting.



and are considered his best works of that character. A list of the eminent Americans painted by Mr. Huntington would be too long to insert here. Among the best are: President Van Buren, Admiral Dupont, Gulian C. Verplanck, W. C. Bryant, Chancellor Ferrie, Gen. Swift, Dr. Muhlenberg, James Suydam, Gov. Morgan, Judges Daly and Sutherland, Governor Trimble, A. B. Durand, Geo. Peabody, Abraham Lincoln, etc. Mr. Huntington was President of the National Academy of Design from 1802 to 1809, and again from 1877 to 1889.

Hunt'ington, in Connecticut, a post-town and township of Fairfield co. Pop. (1807) about 4,100.

Hunt'ington, in Indiana, a N.E. co.; area, about 380 aq. m. Eiers. Wabsah and Salamonie trivers. Surface, mostly level; soil, very fertile. Cap. Huntington. Pop. (1890) 27,644.

A city, cap. of Huntington co., on C. & E. and Wabsah

HURA

(1890) 27,644.

A city, cap. of Huntington co., on C. & E. and Wabash R.Rs., 24 m. S.W. of Ft. Wayne. Pop. (1897) about 8,359.

Hunt'ington, in Massachusetts, a post-township of Hampshire co. Pop. (1896) 1,450.

Hunt'ington, in New York, a post-village and township of Suffolk co., about 40 m. E.N.E. of the city of New York. Pop. of village (1897) about 3,120.

Hunt'ington, in Ohio, a township of Brown co.

—A township of Gallia co.

—A newt-township of Lorain co.

—A township of Gallia co.

—A township of Gallia co.

—A post-township of Lorain co.

—A township of Boss co.

Humt'imgtom, in South Curolina, a post-village of Laurens co. slout 82 m. N.W. of Columbia.

Humt'imgtom, in Vermont, a post-town and township of Chittenden co., on the Huntingdon river, about 20 m. W. of Mountpelier. Pop. (1897) 746.

Humt'imgtom Bay, in New York, an arm of Loug Island Sound, about 20 m. E.N.E. of New York City.

Humt'imgtowm, in Muyland, a post-village of Calvert co., about 54 m. S.S.W. of Annapolia.

Humt'ley, in Illinois, a post-village of McHenry co., about 55 m. W.N.W. of Chicago. Pop. (1897) 590.

Humt'ly, a town of Scotland, in Aberdeenshire, at the confluence of the Bogie with the Deveron, 20 m. S.S.W. of Banff. Mannf. Coth and linen-bleaching. Pop. 3,750.

Humt'ream, a. A female that hunts or follows the chase.

of Banff. Massy. Cloth and linen-bleaching. Pop. 3, 500. Hunt'reas, n. A female that hunts or follows the chase. Hunt's, in North Curolisa, a post-office of Nash co. Hunts'burg, in Ohio, a post-town and township of Geauga co., about 170 m. N.E. of Columbus. Hunt's Corners, in New York, a post-village of Cort-

land co.

Hunta'dale, in Missouri, a post-office of Boone co.

Hunta'dale, in Penasyleania, a post-village of Cumberland co., on P. & R. R.R. Pop. (1897) 302.

Hunta'man, a. One who practises hunting; the servant whose office it is to manage the chase.

Hunta'manship, a. The art or practice of hunting; the qualifications of a hunter.

Hunta'spur, in Michigaa, a post-office of Mackinac co.

Hunta'ville, in Alobama, a thriving town, cap. of Madison co., 24 m. E. of Decatur, on M. & C. and N. C. & St. L. R.Rs.; an a tive manuf., trading and educational center. Pop. (1897) about 8,450.

Hunta'ville, in Arbussas, a post-village, cap. of Madison co., about 175 m. N.W. of Little Bock. Pop. (1897) 400.

400.

400.

Hunts'ville, in Connecticut, a post-village of Litchfield oo, about 38 m. W.N.W. of Hartford. Pop. (1897) 168.

Hunts'ville, in Georgia, a post-village of Paulding co., about 11 m. E. of Van Wert.

Hunts'ville, in Illinois, a post-village and township of Schuyler co., about 80 m. W.N.W. of Springfield.

Hunts'ville, in Indiana, a village of Madison co., about 7 m. S.S.W. of Anderson.

—A township of Randolph co., 9 m. S.W. of Winchester.

—A village of Whiteley co., abt. 8 m. W.N.W. of Columbia.

Hunts'ville, in Mississippi, a post-village of Montgomery co.

gomery co.

Humts' ville, in Missouri, a post-town, cap. of Randolph co., 78 m. N. by W. of Jefferson City. Pop. (1890) 1,838.

Hunts ville, in North Carolina, a post-village of Yad-

Hunts ville, in Nota Carotaa, a per-vinge of Farkin co.

Hunts'ville, in Ohio, a village of Butler co., about 22 m. N. by E. of Cincinnati.

—A post-village of Logan co., abt. 61 m. N.W. of Columbus.

Hunts'ville, in Pennsylconia, a post-village of Luzerne co., about 56 m. N.W. of Columbia.

Co., about 56 m. N.W. of Columbia.

co., about 56 m. N.W. of Columbia.

Hunts'ville, in Tenessee, a post-village, cap. of Scott
co., 125 m. E.N.E. of Nashville.

Hunts'ville, in Tera, a city, cap. of Walker co., on
I. & Gt. Nor. R.R., 74 m. N. of Houston. Pop. (1897)

about 1,660.

about 1,650.

Hur. (Script.) A chief man among the Hebrews in the desert, associated with Aaron in upholding the hands of Moses at Rephidim, and in supplying his place while on the summit of Sinal, (Ex. xvii. 10.)

Hura, n. (Est.) A genus of plants, order Euphorticacer, distinguished by having a solitary ovule; flowers apetalous in spikes; bracts, 1- to many-flowered. The seeds of H. creptians, the Sand Box-tree, a native of tropical America, are a powerful cathartic, but become wholesome when their embryo is extracted. To this genus also belones H. Braziliensis marius, the Association of the seeds of the see wholesome when their embryo is extracted. To this genus also belongs H. Brasiliensis martius, the Assa

con, q. v. **Hu'raulite, n.** (Min.) A hydrous phosphate of the au Taulile, s. (Min.) A hydrous phosphate of the oxides of fron and manganese, occurring in small, yellow, reddish, or nearly colorless crystals, at Limoges, commune of Hureaux, France. Sp. gr. 3·18. Comp. Phosphoric acid 39·1, protoxide of manganese 40·2, protoxide of iron 8·3, water 12·4.

Philosophy and Christian Art for Robert Hoe, and Sowing the Word for Anson Stokes, were painted in 1868, and are considered his best works of that character. A list of the eminent Americans painted by Mr. Huntington would be too long to insert here. Among the best

sticks, used for inclosures, gates, &c.; a crate; a collection of twigs or sticks interwoven closely, and sustained by long stakes, serving for protection or fortification.

—r. a. To make up, hedge, cover, or close with hurdles.

Hurdles, a. The refuse of fax; tow; hards.

Hurdles, a. The refuse of fax; tow; hards.

Hurdles, a. The refuse of fax; tow; hards.

Hindostan, 36 m. from Seharunpoor, Lat. 29° 57′ N., Lon. 78° 2′ E. From its position on this stream, esteemed so sacred by the Hindose, immense numbers of pilgrims are annually attracted hither, and the largest fair in India is held here every spring, which is attended regularly by from 200,000 to 300,000 persons. Every 12th year, this number is increased to fully 2,000,000, who come partly from purposes of devotion, and partly to trade in camels, horses, cattle, drugs, fruits, &c. Pop. 13,110.

13,110. \*\*Har'dy-gur'dy, \*\*. (\*\*Mus.) A stringed instrument, whose sounds are produced by the friction of a wheel and regulated by the fingers. It is only suited to simple music, and was used for such as had many repetitions. Its simplicity and cheapness rendered it, at one time, a favorite instrument among the peasantry of Europe. The instrument is now mostly to be seen in the hands of Savoyard hors who play it on the stream.

of Savoyard boys, who play it on the streets.

Hurl, v. o. [Formed from whirl; Dan. hvirrel; O. Ger. hwirril. See Whirl.] To cause to rush or roll along; to throw with violence; to drive with great force.

—a. Act of throwing with violence; tumult; riot; commotion.

Hurl'bat, a. An old kind of weapon whirled rapidly

Hurl'-bat, n. An old kind of weapon whirled rapidly round; a whirl-bat.

Hurl'-bone, n. A bone near the middle of the but-tock of a horse.

Hurl'er, n. One who hurls or throws. - A player at

Hurley, in New York, a post-village and township of Ulster county, about 55 miles S.S.W. of the city of

Hurley, in New York, a post-village and township of Ulster county, about 56 miles 8.8.W. of the city of Albany.

Hurley, a. The act of throwing.—A kind of game played with a ball.

Hur'ly-burly, n. [Fr. hurluberlu, probably formed from the sound.] Tumult; bustle; confusion.

—a. Tumultuous: bustling.

Hu'rom, n. (Zoll.) The Black Bass. Perca migricans, an acanthopterygian fish of the family Percide. found in Lake Huron. Its flesh is firm, white, and well-flavored.

Hu'rom, a W. co., of prov. of Ontario, bordering on Lake Huron; area, about 1.288 on. m. Rev.s. Maitland river and several less important streams. Surface, diversified; soid, fortile. Cap. Goderich. Pop. 65,165.

Hurom, in Josea, a post-town and township of Des Moines co., about 55 m. St. of Iowa City.

Hurom, in Michigea, an extreme E. co., bordering on Lake Huron and Saginaw Bay; area, 750 sq. m. Rivers. Pigeon and Willow rivers. Surface, nearly level; soil, fertile. Cap. Bad Axe. Pop. (1804) 32,249.

—A post-township of Huron co.

—A township of Huron co.

—A township of Muron co.

—In urom, in New York, a post-town and township of Wayne co., on Lake Ontario, about 40 m. E. by N. of Rochester. Pop. (1897) 1,872.

Hurom, in Ohio, a N. co.; area, about 480 sq. m. Ricers. Huron and Vermillion rivers. Surface, level; soil, fertile. Cap. Norwalk. Pop. (1890) 31,949.

—A post-village and township of Erie co., on Lake Erie, at the mouth of Huron river, and about 111 m. N. by E. of Columbus. Pop. of village (1890) 1,380.

Hurom, in Visconsis, a post-office of Chippewa co.

Hurom, in visconsis, a

Huron River, in Ohio, rises in Richland co., and flowing N. through Huron co., enters Lake Eric from

Eric co.

Hu'ron River, in Michigen, rises among the small lakes between Livingston and Washtenaw cos., and flowing S.E. enters Lake Eric between Monroe and Wayne cos. Length, about 90 m.—The upper part is called Woodburr's Creek.

Hurons. See Wyandors. Hurra', or Hurrah'. An exclamation of joy or sur

HUPPER', or HURRAY'. An exclamation of joy or surprise; equivalent to hussa.

Hup'ricame, a. [Sp. huracom; Fr. ouragam, from orage, L. Lat. curragium, a storm, from Lat.—Gr. curra, a gentle breeze, from aö, aemi, to blow.] A violent storm, generally accompanied by thunder and lightning, and distinguished from every other kind of tempest by the vehemence of the wind, and the sudden changes to which it is subject. Hurricames prevail chiefly in the East and West Indica, the lale of France, and in some parts of China.

Hurricame, in Illinoia, a township of Fayette co.—A post-village of Montgomery co. Pop. (1897) 150.

Hurricame, in Virginia, a post-village of Putnamo.

Hurricame, in Wisconsia, a post-office of Grant co.

Hurricame Creek, in Arkansoa, enters the Saline river in Saline co.

Hurricame Creek, or Trillian Creek, in Georgia, enters the Santilla river in Ware co.

Hurricame Creek, in Tennessee, rises in Dickson co., and enters Duck river in Humphrice eo.

Hurricame Lisand, in Maine, a post-office of Knox co.

\*\*Hurricame of the Maine in Maine, a post-office of Knox co.

Knox co.

Hur'ried. p. a. Hastened; urged or impelled to

Hur'ried, p. a. Hastened; urged or impelled to rapid motion or vigorous action.

Hur'riedly, adv. In a hurried manner; precipitately.

Hur'ried, p. a. State of being hurried; precipitancy.

Hur'ry, v. a. [A. 8. Arran, to move, agitate, raise.]

To impel to greater speed; to drive or press forward with more rapidity.—To urge to act or proceed with more celerity; to hasten; to quicken; to accelerate.

To drive or impel with violence; to urge or drive with preceditation and confusion. precipitation and confusion.
v. n. To move or act with haste; to hasten; to proceed

e. n. To move or science.
with celerity or precipitation.

A putting into trepidation or confusion; haste;
precipitation. hasty motion; pressure; urgency to haste; precipitation; that occasions disorder or confusion; tumult;

bustle; commotion.

Hurrying, n. The urging to greater speed; rapidity of motion.

or motion.

Hurryingly, adv. In a hurrying manner.

Hurrst, n. [Ger. horst; A.S. hyrstan, to adorn.] A small wood; a knoll covered with trees, hence the termination of several places in England, particularly in Kent and Sussex. The surnames of Ashkurst, Hazelkurst, &c., are derived from persons who resided at or near a hurst or wood; these theory. or wood of these tre

are derived from persons who resided at or near a hurst or wood of these trees.

Hurt, R. [A. S. Ayrt, hurt, wounded; Fr. heart, a hit, knock, from hearter, to knock.] A wound; a bruise; injury; harm; loss; damage; detriment; whatever injures or harms.

—v. a. To knock, strike, or dash violently against; to bruise; to wound; to injure or impair the sound state of the body, as by incision or fracture. —To harm; to damage. —To injure by occasioning lose; to impair; to impair the strength, purity, or beauty of; to harm; injure, or damage in general; to injure; to give pain to; to grieve, as one's feelings.

Hurt'tel, n. A horse. (Sootland.)

Hurt'er, n. One who hurts or harms. — A flatted iron fixed against the body of an axletree.

(Gun.) A plece of timber placed along the head of a gun platform, at the foot of the interior slope of the parapet, to prevent the latter from being injured by the wheels of the gun-carriage.

Hurt'full, a. Causing hurt, harm, loss, injury, or destruction; tending to impair or destroy; pernicious; destructive; harmful; prejudicial; detrimental; mischievous; injurious.

Hurt'fulless, n. Injuriousness; tendency to occasion loss or destruction; mischievousness.

Hurt'telle, v. n. [From hurt, q. v.] To clash; to skirmish; to run against anything; to justle.

— a. To push with violence; to whiri round; to brandish.

Hurt'leberry. n. (Bot.) Same as huckleberry.

-v.a. To push with violence; to whirl round; to brandish. Hur'tleberry, a. (Bot.) Same as huckleberry.

See VACCINIUM.

Hurtless, a. Innocent; harmless; innoxious; doing

Hurt'lessly, adv. Without harm. Hurt'lessness, n. Freedom from any pernicious

Hur'toir, (-toor,) n. [Fr.] A hurter.

Hur'toir, (-toor,) n. [Fr.] A hurter.

Hus'band, n. [A. S. hurbonda, hurbunda—hus, a house, and bonda, a master of a family, from bindan, a hurbundan, hurbunda to bind.] A male consort or spouse;—the correlation of wife.—The male of animals of a lower order. (a.)

of wife.—The male of animals of a lower order. (a.)—An economist; a good manager.

Husband and Wife, (Law.) are in many respects regarded as in peculiar circumstances, and particular laws are in force regarding them. For most purposes they are looked upon as only one person, the legal existence of the woman being hidden or incorporated in that of her husband; whence she is called a feme covert, and her condition during marriage, her coverture. For this reason a man cannot grant anything to his wife directly, nor enter into covenant with her; for the grant would be to suppose her separate existence, and to covenant

with her would only be to covenant with himself; but a husband may grant to his wife, by means of a trustee or releasee to uses, and he may bequeath anything to his wife by will, seeing that that cannot take effect till the coverture is determined by his death. The H. is bound by law to provide his wife with necessaries as much as himself; and if she contract debts for them, he is bound to new them; but for anything heavend necessaries. bound by law to provide his wife with necessaries as much as himself; and if she contract debts for them, he is bound to pay them; but for anything beyond necessaries he is not chargeable. If a wife elopea, and lives with another man, the H. is not chargeable, even for necessaries, at least if the person who furnishes them is sufficiently apprised of her elopement. If a wife be indebted before her marriage, the H. is bound to pay the debt, for he has adopted her and her circumstances together. If the wife be injured in her person or property, she can bring no action for redress without her H's concurrence, and in his name, as well as her own; neither can she be sued without making the husband a defendant, except where he may have abjured the realm, or been banished; for then he is dead in law. In criminal prosecutions, however, the wife may be indicted and punished separately; for the union is only a civil one. Though in general the law considers man and wife as one person, yet there are some instances in which she is separately considered as inferior to him, and acting by his compulsion. Therefore, all deeds executed, and acts done by her during her coverture, are void, except in execution of a power; in which case she must be solely and secretly examined, to learn if her act be voluntary. She cannot by will devise lands to her H, unless under special circumstances; for at the time of making it she is supposed to be under his coercion. In some felonies too, and other inferior crimes, committed by her through constraint of her H, the law excuses her; but this does not extend to treason or murder. The law regards marriage in no other light than a civil some tetonies too, and other interior crimes, committed by her through constraint of her H, the law excuses her; but this does not extend to treason or murder. The law regards marriage in no other light than a civil contract, and as such, treats it as it does all other civil contract; allowing it to be good and valid in all cases where the parties at the time of making it were in the first place willing to contract; secondly, able to contract; and, lastly, actually did contract, in the proper forms and solemnities required by law. In general, all persons are able to contract marriage, unless they labor under some particular disabilities and incapacities. These are of two sorts: first, such as are canonical, and recognized by the ecclesiastical laws; as consanguinity, or relation by blood; affinity, or relation by marriage; precontract, and certain particular corporesi infimities: and second, such as are created or enforced by the municipal laws; as a prior marriage, want of ago, want of reason, &c. Lastly, in order to make a good legal marriage, it must be performed in due form of law.

Hus band, v. a. To manage with frugality; to use economy.

economy.

Hus'bandage, n. The agent or managing owner's
allowance or commission for attending to a ship's busi Dess

Hus'bandless, adv. Without a husband.
Hus'bandly, a. Frugal; thrifty. (a.)
Hus'bandman, n. A cultivator or tiller of the
ground; one who labors in tillage.
Hus'bandry, s. A term, including both agriculture
and gardening, or all those country occupations which
the father of a family was expected to perform in the
country. The term is now commonly used as synonymous with agriculture.—The term convertible hasbandry
is applied to that system of cropping in which the land
is alternately kept under grass and tillage.
Husbandry, Patrons of. See Farmers' Alliance.
Husbandry, Patrons of. See Farmers' Alliance.
Husbandry of the solution of the calm; to
repress, as noise; to appease; to allay.
—v. m. To be still; to be silent.
Husb, inter. [Imperative of the verb husb.] Be silent

-v. n. To be still; to be allent.

Hush, intery. [Imperative of the verb kush.] Be silent or quiet; make no noise; silence!

Hush'aby, a. That tends to quiet or lull.

Hush'smemey, n. A bribe to secure silence; money paid to hinder information, or disclosure of facts.

Hush, m. [It. gueco, shell of nuts, &c.; Ger. hiller; Du. hules, hush, cod.] The shell or external covering of certain fruits or seeds of plants; the rind; the bark; — especially the are of maize.

-v. a. To strip off, as the external covering of the fruits or seeds of plants.

Hush'sly, adv. In a husky manner; dryly; roughly.

Himsked, (husk!, p. a. Stripped of its husks.

a. Covered with a husk.

Husk'ily, adv. In a husky manner; dryly; roughly. Husk'ilmess, n. State of being dry and rough, like a husk.—Roughness of sound, or of the voice.

Husk'ing, n. The act of stripping off husks of fruits and seeds.—An assemblage of neighbors for the purpose of husking Indian corn. [Local U. S.]

Husk'y, a. Abounding with husks; consisting of husks; resembling husks; dry; rough.—Rough, assound; harsh; whizzing.

Hu'so, n. (Zod.) See Studgeon.

Huss, John, one of the reformers before the Reformation, B. at Hussinst, a village of Bohemia, about 1375. He was of a poor family, but through the kindness of a wealthy seigneur, was sent to study at the University of Prague, where he graduated M. A. He entered the Church, was ordained priest in 1400, and under the protection of King Wenceslaus and his queen, Sophia, began propagating the doctrines of Wycliffe. In 1409 he was named rector of the university; was soon after suspended from his office of priest, and continuing to preach, in the field and in houses, against the pope, the anthority of tradition, indulgences, &c., was de-

nounced at the Court of Rome, and on his failing to answer the charges made against him, was excommunicated by Alexander V. Tumults occurring in Prague, between the followers of H. and the Roman party, H. retired for a time to his native village. When Pope John XXIII, proclaimed a crusade against Ladislaw, king of Naples, H. boildly condemned the pope; was again cited to Rome, and at last, in 1414, to the Council of Constance. Thither, trusting to the safe-conduct given by the Emperor Sigismund, he went. Unshakes by entreaties or by terrors, he was arrested, degraded from the priesthood, delivered over to the secular arm, and burnt at Constance, July 7, 1415. His disciple, Jerome of Prague, met a like end in the following year.

Jerome of Prague, met a like end in the rollowing you. See Hussiyns.

Hussar, (his-sdr'.) n. [Hung. hist, 20, and dr, rate.]

(hil.) One of a body of light cavalry, first in use among the Magyars in 1610, and so called because the the sentich man of all the vassals of the nobles in each province was compelled to be armed as a trooper. Tilly introduced hussare into the Austrian army; and at the battle of Leipsic, in 1631, had five regiments of them in the field. Luxemburg formed a troop in France in 1992; and Frederick William I. of Prussia organized two regiments in Prussia, 1730. The first hussars forming part of the English army were enrolled by William III. during the war in Flanders in 1694. There are regiments of hussars in almost all the European armies. Their arms are

a sabre, a carbine, and pistols.

I un'sim Pacha, the last Dey of Algiera, s. 1773, pro-claimed 1818, dethroned by the French under Marshal

Hus sim Pacha, the last Dey of Algiers, a 1773, proclaimed 1818, dethroned by the French under Marshai Bourmont, 1830.

Huss '15ce, n. pl. (Eccl. Hist.) The followers of John Huss, q. v. — Upon receiving the news of his death, several nobles and knights formed an association, Dec. 2, 1415. This party obtained the majority at the parliament of Prague, 8ept. 5, 1416, and being opposed by the emperor, they took the field, and appointed Ziska their leader, March 10, 1418. Active war soon commenced, and a schism occurred in 1425. The battle of Prague was gained by Ziska, July 14, 1420; and in the still more brilliant victory of Deutschbrod, Jan. 8, 1422, he almost annihilated the Emperor's army. The Hussits overran the whole of Bohemia and Moravia, and were on the point of marching upon Vienna, when the sudden death of Ziska, Oct. 12, 1424, put a stop to their plans. They gained two more battles—at Aussig, June 15, 1426, and at Mies, July 21, 1426; but, weakened by internal disputes, they were induced to sue for peace. After long negotiation, the treaty of Iglau was concluded between the Emperor Sigismund and the leaders of the H., July 5, 1436. Though this treaty did not put an end to the struggles of the Protestants in Bohemia, yet from this time the name of H. was no longer applied to them.

Hus'sy, n. [Corrupted from kousewife, taken in an ill sense.] A sorry or bad woman; a worthless wench. It

applied to mem.

#uss'sy, n. [Corrupted from housewife, taken in an ill sense.] A sorry or bad woman; a worthless wench. It is often used ludicrously on slight disapprobation. "Get you in, husey, go! Now will I personal young jade." - Southern.

A case containing a set of sewing materials, thread, needles, buttons, &c.;—also called houses: for humanife.

Hust'ingu, n. pl. [A. S. hustinge — hus, a house, and thing, a cause, a council.] The principal and supreme court of the city of London, held before the lord-mayor and aldermen, in the Guidhall. This court is of great antiquity, as honorable mention is made of it in the laws of King Edward the Confessor. In the H. court, at the present day, the aldermen and four members of parliament are elected. Other cities and towns have also had a court of the same nane; as Winchester, York, Lincoln, &c. In common language, the term H. is applied, in England, to the booth or elevated platform on which candidates at a parliamentary election are nominated, and from which they address their constituents before the show of hands is taken. before the show of hands is taken.

Hun'ttsford, in Wisconsis, a post-village and township of Dodge county, about 50 miles N.E. of Madi-

son.

Hussle, (hur'l,) v.a. [Du. hutseles, to jumble or shuffle among one another; Sw. hutla, to shuffle.] To shake or shuffle together in confusion; to push or crowd.

Hus'tom, in Pennsylvania, a thriving township of Blair

Hus'ton, in remegrees on a co.

A township of Centre co.

Hus'tontowm, in Penna, a post-village of Fulton co.

Hus'tontowm, in Penna, a post-village of Lincoln, co., about 53 m. S. of Frankfort. Pop. (1897) 492.

Husum (koo'sum), a seaport town of Prussia, in Schleswig, on the Aue, 22 m. W. of Schleswig. Pop. 5,755.

Huswife, (kdr'st'), n. [Corrupted from kousreofe.] A bad manager: a sorry woman; a hussy.—An economist; a thrifty woman.

"The bountoous kerwife, nature, en each bash

"The bountoous husselfs, nature, on each bush Lays her fulness before you." — Shaks.

Lays her fulness before you."— Shaks.

—c. a. To manage with economy and frugality.

Hus'wifely, a. Thrifty; frugal.

—adv. Thriftly; like a huswife.

Hus'wifery, n. Management, good or bad. — Management of rural business committed to women.

Hut, n. (Ger. hātk; Du. hat; Dan. hat; Dan. hythe, from Heb.

ghata, Sans. guth, to cover.] A covered place; a small
house, hovel, or cabin; a mean lodge or dwelling; a
cottage; a temporary building to lodge soldiers.

—v. a. To place in huta, as troops encamped in winterquarters. quarters.

quarters.

-v. n. To take lodgings in huta.

Hutelb, n. [A.S. hwecox, a chest; Dn. hok, a pen, kennel; Fr. hucke, a kneeding trough; Sp. hucke, a large chest.] A corn chest of bin; a box for rabbita; a rat-trap.

(Mining.) A box in which coal is drawn up out of a

pit.

Hutch'eson, Francis, philosopher, sometimes considered as the founder of the Scottish school. He was sidered as the founder of the Scottish school. He was Effectiveson, Francis, philosopher, sometimes considered as the founder of the Scottish school. He was born in 1694 in Ireland; studied at Glasgow; and, on his return to Ireland, officiated in a Presbyterian congregation, for some time, in the northern part of that kingdom; but in 1729 he was elected professor of moral philosophy at Glasgow. He had previously published An Inquiry into the Original of our Ideas of Beauty and Virtue, and a Treatise on the Nature and Conduct of the Pussions. In 1755, his son, Dr. Francis H, a physician of Glasgow, printed from his father's papers, A System of Moral Philosophy, 2 vols. 4to.: to which is prefixed an account of the author. D. 1747.

Hutch'ins, Tromas, geographer-general to the United States, a in New Jersey, about 1730. He served in the army against the Indians in Florida; was imprisoned in England in 1779, on the charge of having corresponded with Dr. Franklin, then American agent in France; afterwards joined the army of General Greene; and D. at Pittsburg, 1789. He published several topographical and historical works of considerable interest.

Hutch'inson, Anna a religious enthusiast of New England, banished from the colony by an ecclesiastical synod, and killed, with fourteen others of her family, by the Indiana, 1643.

Hutchinson, John, an English philosophical and biblical writer, as & Springthorn, Yorkshire, 1674. The

the Indians, 1643.

Hutchimson, John, an English philosophical and biblical writer, a. at Springthorn, Yorkahire, 1674. The publication of Sir Isaac Newton's Principia in 1687, in which the philosopher supposed the planets to move through a vacuum, provoked H., who was a great student of antiquity, and of the Hebrew Scriptures, to publish the publish Manuel Manuel Principial States and the Principial Stat of antiquity, and of the Hebrew Scriptures, to publish his work, entitled Mose? Principia, which appeared in two parts, in 1724 and 1727. The design of H. was to demonstrate that a celestial matter pervades the whole creation, spiritual and natural, whereby Jehovah is master of the material worlds, whereas the theory of Sir Issac Newton supposed a universe without a God, or a God who acts by arbitrary power. This philosophical doctrine, which is supported by the recent discovery of an interplanetary ether, was, in the work of H., a pure deduction from the Scriptures, his principle being that the Hebrew language is perfectly formed, so as to convey perfect ideas, without the redundancy or deficiency of letters common to other languages; hence, that it was perfectly adapted to be the medium of a revelation, and that religion and philosophy were united in the system of Moses. H. attacked Dr. Woodward, author of a "Natural History of the Earth," as well as Sir Issac Newton. He wielded his pen with the hand of a master, and with little respect for the feelings of his opponents. Among his adherents were Bishop Horne, Jones of Nayland. Julius Bate Dr. Hodger and Wetharall Perkently

Newton. He wielded his pen with the hand of a matter, and with little respect for the feelings of his opponents. Among his adherents were Bishop Horne, Jones of Nayland, Julius Bate, Drs. Hodges and Wetherall, Parkhurst, Romaine, and Dr. Samuel Clarke. D. 1737.

Hutchimson, Thomas, lord chief-justice, and afterwards lieutenant-governor, of the province of Massachusetts, B. at Boston, 1711. He was greatly respected for his able and irreproachable conduct on the bench; but having covertly taken part with Great Britain against the American colonies, and given the English ministers advice relative to the enforcement of the duty on tea, it was found necessary to remove him, and make General Gage his successor. He accordingly went to England, lived in a retired manner at Brompton, and died there in 1780. H. was author of a History of the Colony of Mussachusetts.

Hutchimson, in South Dukota, a S. E. co.; area, about 795 sq. m. Rivers. Dakota and some smaller streams. Surface, diversified; soil, fertile. Cup. Olivet. Pop. (1895) 11,543.

1895) 11.543

mtch'inson, in Minnesota, a post-village and township of McLeod county.

ship of McLeed county.

Hutchinso'miams, n. pl. (Philos.) The followers of John Hutchinson (q. v.).

Hut'son ville, in Illinois, a post-village of Crawford co., about 130 m. E. S. E. of Springfield. Pop. (1897) 624.

Hut'tem, Ulrich von, a German poet and miscellaneous writer, best known as one of the boldest promoters of the Reformation; s. of a noble family at the cautle of Steckelberg, in Franconia; D. in the little island of Uffnan, in the lake of Zurich, 1523.

Hut'son. James a British geologist and natural philos-

Uman, in the lake of Zurich, 1923.

Hmf'ton, James, a British geologist and natural philosopher, B. at Edinburgh, 1726; chiefly distinguished as author of a Theory of the Earth, in which is developed the system called Plutonic, strongly confirmed by later researches in geology, by which the structure of the solid parts of the earth is attributed to theaction of the

D. 1797. Hut'ton, in Illinois, a flourishing post-township of

Hut'ton, in Minois, a flourishing post-township of Coles co.

Hut'ton, in Maryland, a post-office of Garrett co, on the Balt. & Ohio R. R.

Hutto'miam, a. (Geol.) Relating to the Platonio theory, promoted by J. Hurron (g. v.).

Hut'tonswille, in West Virginia, a post-village of Randolph co., about 12 m. S. W. of Beverly.

Hux'ton, or voc.) a town of Belgium, in Lidge, on the Meuse, 16 m. W. of Lidge. Manuf. Paper, leather, soap, pipes, &c. Pop. 10,075.

Huygems, Christian, (Ai'jens.) an eminent Dutch mathematician and astronomer, E. at the Hague, 1629; settled in Paris, 1663, at the invitation of Colbert, who bestowed on him a handsome pension; returned to his settled in Paris, 1663, at the invitation of Colbert, who bestowed on him a handsome pension; returned to his native country in 1681; p. 1695. In pure Geometry, H. gave the reasons for the quadrature of the Hyperbola, the Ellipsis, and the Circle; in Mechanics, he laid down the theory of the Pendulum, and its application to the Clock; he discerned the synchronism of the Cycloid, invented the theory of Involutes and Evolutes of Curves,

and explored the doctrine of Centres of Oscillation: most important of all, he announced the law of the motion of bodies revolving in circles, thereby grazing the law of gravitation. In Astronomy, we owe him the memorable discovery of Saturn's ring, at that time a most sagacious solution of very puzzling appearances. In Optics he laid the foundation of the theory of Undulations, explaining by means of it phenomena which by the theory of Emanation Newton could not touch.—Few cultivators of Abstract Science had a clearer or more correct intellect than Huygens; he showed this, more especially in his ready appreciation and powerful grasp of the Doctrine of Gravitation: he adopted the new view at the sacrifice of his previous attachment to and explored the doctrine of Centres of Oscillation: new view at the sacrifice of his previous attachment to the Vortices of Des Cartes, and this at a period of life when men have rarely freshness enough to alter their oninions.

HYAC

opinions. **Enys'semite**, n. (Min.) A greenish-gray mineral from the salt mine of Strassfurt, often found in nodular forms that contain a nucleus of common salt. Sp. gr. 278. Comp. Borate of magnesia 4036, borate of iron 5005, chloride of magnesium 959. It becomes yellow on ex-Huys's

chloride of magnesium wes.

Hunarch, (hew-rd-ray',) a region of Afghanistan, in
Lat. 31° 30' to 37° N., Lon. 62° to 68° E.; area, 80,000
sq. m.; pop. abt. 220,000.

Hunz'ma, n. [Most probably a different form of hurrah.]
A shout of joy.

-v. n. To utter a loud shout of joy, or an acclamation

in joy or praise.

-s. a. To receive or attend with shouts of joy.

in joy or praise.

— s. a. To receive or attend with shouts of joy.

Humma'img, s. A shouting with joy; a receiving with shouts of joy.

Hven, Hwen, (when,) a small island of Sweden, on the S.W. coast in the Sound, 16 m. N.E. of Copenhagen. It has no particular interest save having been the residence of Tycho Brahe, and the place where he built an observatory, which has since fallen into decay; pop. 2,100.

Hvermalt, s. (Min.) A var. of Halotrichite in which a little of the alumina is replaced by sequioxide of iron, and some of the protoxide of iron by magnesia.

H. W. Abbreviation for high-scaler.

Hwang-he, a river of China. See Hoane-no.

Hyacintha, (h'a-sinth,) s. [Lat. hyacinthus; Gr. hyakinthos.] (Myth.) A young Lacedsmondan prince of great beauty, son of Amyclas. He was the favorite of both Apollo and Zophyr, but himself preferred the former. Zephyr is said to have killed him from jealousy; but Apollo transformed him into the flower called after him, engraving on its petals the two first letters of his

mer. Zephyr is said to have killed him from jealousy; but Apolio transformed him into the flower called after him, engraving on its petals the two first letters of his name. He was worshipped as a divinity at Sparta. (Bot.) A bulbous plant, genus Hyachrsus, q. v. (Min.) The H. of the ancients is regarded as our sapphire. The highly-colored varieties of zircon are called hyacinths. The variety of garnet called cinnamonstone, especially that from Ceylon, and sometimes a ferruginous quartz of a blood-red color, are also called by this name. In modern mineralogy a hyacinth-color is reddish-orange with a tinge of brown.

Hyacinthe, Farrer Charles-Lorson, a French pulpit orator, s. 1837. He studied at the Academy of Pau, and at an early age composed some remarkable poetry. In 1835 he entered Saint-Sulpice, was ordained priest after four years of theological study, taught philosophy at the great Seminary of Avignon, and theology at that of Nantes, and officiated in his ecclesiastical capacity at Saint-Sulpice. He afterwards spent two years in the convent of the Carmelites of Lyons, entered that order, and attracted much attention by his preaching at the Lyoés of that city. He delivered the course of sermons in Advent at Bordeaux, a course for Leut at Périgneux in 1864, and repaired to Paris, where his preaching at the Madeleine and at Notre-Dame attracted much attention. Father H. exhibited liberal tendencies, which, though perhaps not absolutely at variance with the secret thoughts of the archbishop of Paris, Monseigneur Darbay, obliged this eminent dignitary to put an end to the discourses of the bold Carmelite. In 1869, a letter the discourse of the bold Carmelite. In 1869, a letter the discourse of the bold Carmelite. cret thoughts of the archbishop of Paris, Monseigneur Darbay, obliged this eminent dignitary to put an end to the discourses of the bold Carmelite. In 1869, a letter of censure from the Father-General of the barefooted Carmelites led Father H. to a breaking of his vows. He then repaired to New York, and some days after left America, and married in 1872 an American lady. In 1873 he established an Old Catholic Church in Geneva, resigning his charge in 1874. He opened an independent church in Paris, in 1878, called the Erlies Gallicana. resigning his charge in 1874. He opened an independ church in Paris, in 1878, called the Eglise Gallicane.

Hyperim'thus, n. [See HYACINTE.] (Bot.) A genus of plants, ord. Liliaces. They are bulbous-rooted, with bell-shaped bullous-rooted, with bell-shaped flower, 6-cleft perianth, and dry capsular fruit. The numerous and splendid varieties of the garden hyacinth, H. Orientalis, have always been general favorities; and the fondness for these flowers in the fondness for these flowers in some countries almost amounts to a mania. It is a native of Persia, Asia Minor, and Syria, and is now naturalized in some parts of the south of Europe. It has broad linear leaves, with a raceme of many flowers. The colors of the cultivated hyacinth vary greatly, and are chiefly white, purple, and are chiefly white, purple, and it is most powerful about 11 o'clock at night. In Holland more than 2,000 varieties have received distinct names, and the price of 1,000 florins has been given for a single plant. has been given for a single plant. The environs of some of the Dutch



Fig. 1333.

towns present, through the profusion of these flowers, a gorgeous appearance. Hyacinth bulbs, planted in pots or grown in hyacinth-glasses, produce beautiful flowers. Hymein'thines, Hymein'thines, a. [Gr. hyacinthines.] Made of hyacinth; consisting of hyacinth; resembling hyacinth.

Hymein, (hi'a-dees.) (Myth.) The five daughters of Atlas, king of Mauritania, who were so disconsolate at the death of their brother Hyas, killed by a wild boar, that they pined away and died. They became stars after death, and were placed near Taurus, one of the twelve signs of the zodiac. Their names are Phaola, Ambrosia, Eudora, Coronis, and Polyxus. To these some have added Thiene and Prodice. The ancients supposed that the rising and setting of the Hyades were always attended with much rain.

Hymeins, n. (2001.) A carnivorous animal, the differ-

tended with much rain.

Hyee'ma, n. (Zoll.) A carnivorous animal, the different species of which compose the fam. Hyenada. The hyenas are digitigrade animals, with more or less clongate limbs, and the body depressed posteriorly. They are characterized by the possession of four toes on each foot; thick, short, and blunt claws; and no small trabercular teeth in the lower jaw behind the molars. The dentition is regular; 34 teeth in number, 18 in the upper and 16 in the lower jaw. There are 5 molar teeth on each side in the upper jaw, and only four on each side in the lower. The dental formula is thus expressed:

6 1—1 5—5

\_\_\_; total = 84. 1-1 5-5 Incisors –, canines  $\frac{1}{1-1}$ , molars –

By the structure of their teeth, the hymnas are able to crush the bones of even the largest prey, and the mus-cles of their jaws and neck are so powerful, that it is almost impossible to take anything from them that they have seized. In habits, they are less sanguinary than animals of a similar nature to themselves, and live more on dead prey, even preferring fiesh that has become quite putrid. In general form they recemble the Cunida, but are easily distinguished

from them by reason of the obliquity of their bodies and their bodies and their peculiar walk, which gives them the appearance of having their hind-legs short-er than their fore ones; not that they are that they are really so, as this results from their always be-



Fig. 1834. - STRIPED HYANA.

results from their always being in a state
of flexion. The mustle is obtuse, like that of a dog, and the tongue rough and furry, like that of a cat. They are nocturnal animals, and are useful in Eastern cities, where they act the part of scavengers, and carry off all refuse and decomposing bodies during the night. Of the hyena in ancient times many fabulous stories used to be related, which had not the slightest probable foundation. They were said to be hermaphrodites, changing their sex every year; also it was reported that if the shadow of their bodies fell on those of dogs, it would render the latter dumb; and, finally, they were said to be able to imitate the voices of men, and to call them by name! The family of the hyenas are natives of Asia and Africa; and the striped hyens, H. vulgaris, (Fig. 1334,) is the best known of the different species. This animal is of a yellowish-gray color, and the skin is crossed by deep transverse black bands. From the neck along the back a long black mane, motitled with yellow hair, extends to the tail, while the ears are of a brown color, and nearly naked, broad at the base, long and erect. Of solitary, retiring habits, it is, however, easily tamed by man, and will thus become a faithful watch-dog. It is called the strawd-wolf by the inhabitants of the Cape of Good Hope, where a wariety of it is found. The spotted hysma of the Cape, Crocuta maculata, or tiger-wolf, is smaller than the last-mentioned animal, and is of a brownish-yellow color, diversified with numerous dark-brown or black spots. The remains of hysmas have been found in most tertiary formations and is of a brownish-yellow color, diversified with numerous dark-brown or black spots. The remains of hysenas have been found in most tertiary formations over the greater part of Europe. (Also written hysena) of molluscous animals, order Pteropoda; distinguished by their wing-shaped organs of

wing-shaped organs of locomotion, (Fig. 1885.) There are many species, found in the Atlantic and the Mediterranean, and the shell is known by the name of Venus' chariot. The head of the animal is very indistinct, and it has no eyes.

Hyales'cence, n. The act or process of becoming transparent like

ing transpersion glass.

Hy alime, a. [Gr. hyalisso, from hyalos, glass — a word said to be Egyptian, which agrees with the place of its earliest manufacture.] Glassy; resembling glass; consisting of glass.

Hy'alite, n. (Called also Müller's glass.) (Min.) A clear, coloriess variety of Opal,  $(q, v_n)$  somewhat resembling a transparent gum.

Hyalog'raphy, n. [Gr. hualos, glass, and graphō, to write.] The art of engraving on glass.

Hy'aloid, a. [Gr. hualos, glass, and sideros, iron.] (Anat.) Vitriform; resembling glass.

H. membrane. (Anat.) The delicate cellular membrane in which the vitreous humor of the eye is contained.

tained.

Hyal'ophame, n. (Min.) A white or colorless, sometimes reddish mineral, transparent or translucent, and of a glassy appearance. Sp. gr. 28-29. Comp. Bilica 51:3, alumina 21:5, magnesia 0:84, lime 0:87, baryta 15:11, soda 0:55, potash 9:25, water 0:58.

Hyalosid'erite, n. [Gr. hualos, glass, and sideros, iron.] A variety of Charsoutra, q. v.

Hyal'otype, n. [Gr. hualos, and typos, type.] A photographic picture taken on glass.

Hyan'min, in Massachusrit, a post-village and scaport of Barnstable co., on Hyannis Bay, about 70 m. S.E. of Boston.

Boston.

Hyan mis Light, in Massachusetts, a light-house ex-hibiting a fixed light 70 feet above sea-level, on Point Gommon, a promontory of Cape Cod, Lat. 41° 38' 20" N. Lon. 70° 15' W.

tommon, a promontory of Cape Cod, Lat. 41° 38° 20° N.,
Lon. 70° 15′ W.

Hyapu'ra, a river of 8. America. See JAPURA.

Hy'att, in Tezza, a post-village of Tyler co., on the
Southern Pacific R. R. Pop. (1897) about 970.

Hy'attatown, in Maryland, a post-village of Montgomery co., about 36 m. N. W. of Washington, D. C.

Hy'attaville, in Maryland, a post-town of Prince
George co., on B. & O. R. R. Pop. (1897) about 1,610.

Hy'attaville, in Ohio. See Tippeanos.

Hyberna'tion, n. See Hibernation.

Hyb'odus, n. (Pul.) A genus of fossil, shark-like
fishes, with compressed conical teeth.

Hy'brid, n. [Lat. hybrida; allied to Gr. hybris, a piece
of wanton violence, an outrage, i.e., what is insulting to
nature.] A mongrel produced, whether in plants or animals, by the impregnation of the female of one species;
genus, or race, by the male belonging to a different family.

The commonest sorts of H. are those which arise from the
interconnection of different varieties of the same species; genus, or race, by the male belonging to a different family. The commonest sorts of H. are those which arise from the interconnection of different varieties of the same species; to notice which, the product of the wild boar and the domestic sow (see Hoq) need only be mentioned. It is stated that specifical hybrids have been produced from the artificial fertilization, by Kalreuter, of the Nicoticana rustica with the pollen of Nicotiana parriculata; and Schiek has demonstrated, by numerous observations, that a multitude of plants produce specifical hybrids in a state of nature. Among mammalia, however, sithough hybrids have been produced, they are not very common, although some have been obtained from the intermixture of the lion and tiger, the dog and wolf, and the horse and ass, the latter being extremely useful, and termed "the mule." Hybrids are generally sterile, and the intermixture of different species, according to Owen, is guarded against by the aversion of two specifically different individuals to sexual union.

—A mongrel; produced from the mixture of two species. Hybridism, of Hybridism, Quality of being hybrid; hybridism, Hybridizable, a. That is able to produce hybrids. Hybridizable, a. That is able to produce hybrids. Hybridizable, a. Mongrel; hybrid.

Hybridizable, a. Mongrel; hybrid.

Hyerotee, in N. Carotina, a small river flowing into the Dan Ritver from Caswell co.

Hydarthrus, m. (Med.) See Hydrarhus.

Hycoo'tee, in N. Carolina, a small river flowing into the Dan River from Caswell co. Hydnarthrus, n. (Med.) See Hydnarthrus, n. (Med.) See Hydnarthrus, n. (Med.) See Hydnarthrus. Hydnarthrus, n. (Med.) See Hydnarthrus. Hydnarthrus. (Med.) See Hydnarthrus aware.] (Zoll.) A term applied rather vaguely to various cyst-like productions, which are sometimes found in the bodies of men and animals. Under the common denomination of hydatids are included several very dissimilar objects. First, several species of entozos, or parasitic animals, which have a distinct and separate vitality; secondly, simple, unattached cysts; and thirdly, vesicular bodies, either wholly or partially connected with the tissues surrounding them. In 1686, Hartman first discovered that many of the bodies, or cyst-like tumors, were distinct parasitic animals. The discovery excited little attention till Linneus and Pallas took up the investigation. Since that time the subject has been mors, were distinct parasitic animals. The discovery excited little attention till Linnaus and Pallas took up the investigation. Since that time the subject has been studied by many eminent naturalists. H. are principally found in the bodies of mammals, and rarely in those of the lower animals. They occur in any part of the body, but are seldom met with in the mucous cavities and passages. The fluid which fills the proper cyst of a H. is nearly always colorless and limpid. The cysticerus, the cenurus, and the echinococcus, are the principal forms of cystic entozoa recognized. The first of these is often generated in the disease of sheep called "the rot." Another species affects the hog, and produces the disease called leprosy, or measles. The Folyacphalus orinus, another hydatid of this kind, is found in the brain of sheep, oxen, and other ruminating animals. They occur frequently in one of the lateral ventricles of the brain of sheep, where they occasion a kind of giddiness, causing the animal to turn round and round in one direction. This disease is sometimes called "the staggers" in England. The treatment, in all cases, for the prevention or removal of hydatids, is very imperfect. They generally occur in a disordered state of health; consequently, the best remedies are those which are likely to remove that state, and improve the general health.

Hyde, in N. Carolina, an extreme E. co., bordering on

Pamlico Sound; area, abt. 830 sq. m. Rivers. Pango and some smaller streams, besides several lakes, while the coast is indented with numerous bays and inlets. Surface, low and level, covered profusely with swamps and marshes. Cap. Swan Quarter. Pop. abt. 9,000.

Hyde, a manufacturing town of England, in Cheshire, 7 m. E.S.E. of Manchester. Manuf. Cotton factories, iron-works, print-works. Pop. 16,660.

Hyde Park, a celebrated enclosure of abt. 400 acres, situate in London, extending from the W. extremity of the city to Kensington Gardens. It belonged to the Abbey of Westminster, and became the property of the crown on the dissolution of the monasteries, in the reign of Henry VIII. A canal or sheet of water, called the Serpentine, although in the form of a parallelogram, was made in H. P., between 1730 and 1733, by order of Queen Caroline. At the eastern end of it is an artificial waterfall, constructed in 1817. Till the middle of the 17th century there was a part of it which contained deer. About that time it began to be a place for races and military reviews. It was also resorted to for duels. After the Restoration, it appears to have become the favorite promenade, which it has ever since continued to be. Hyde Park, in Mussuchwetta, a post-town of Norfolk co., on N. Y., N. H. & H. and N. E. R. R. P. Pp. (1895) 11,828.

Hyde Park, in New York, a post-town and township of Dutchess co. Pop. (1880) 2.821.

co., on N. Y., N. H. & H. and N. E. R. R.'s. Pop. (1895) 11,828.

Hyde Park, in New York, a post-town and township of Dutchees co. Pop. (1891) 2,821.

Hyde Hark, in Pennsylvania, a former post-village of Lackawana co., now forming the western portion of the city of Scranton.

Hyde Park, in Vermoni, a post-town and township, cap. of Lamoille co., about 28 m. N. of Montpeller. Pop. (1897) 1,652.

Hyderabad', a town of Hindostan, cap. of the Nizam's Territories, on the right bank of the Mussi, Lat. 17° 22′ N., and Lon. 78° 32′ E. Pop. (1895) 421,160.

Hyderabad', a town of Hindostan, cap. of Scinde, 4 m. E. of the left bank of the Indus, Lat. 25° 22′ N., Lon. 68° 28′ E. The place is celebrated for its manufacture of arms. Pop. (1895) 60,060.

Hyderabad', an Indian prince of Arabian origin, born in Mysore in 1718, took the field with his brother, who was in alliance with France, 1751, and in the interval between that period and 1780 acquired for himself an independent sovereignty, and nearly brought the English presidency of Madras to ruin. His death occurred at a critical period in 1782, and he was succeeded by his son, Tippoo-Saib, who was driven from the Carnatic in 1783.

Hydes burg, in Missouri, a village of Ralls co., about 50 miles Ne of Lancard.

1783.

Hydes'burg, in Missouri, a village of Ralls co., about 90 miles N.E. of Jefferson City.

Hyde's, in Maryland, a post-village of Baitimore co.

Hyde's ville, in California, a post-township of Humboldt co., about 25 miles S. of Eureka.

Hyde'town, in Pn., a post-borough of Crawford co.

Hyde'ville, in New York, a post-office of Broome co.

Hyde'ville, in Vermont, a post-village of Rutland co., abt. 6 m. S. of Rutland.

Hydnoear'buss. n. [Gr. Audnon, tubercle, karpos,

abt. 5 m. S. of Rutland.

Hydnocar'pus, n. [Gr. hudnon, tubercle, karpos, fruit.] (Bot.) A genus of plants, order Pangiacez, consisting of arborescent unisexual plants, found in the hotter parts of India. The species H. venenatus has a poisonous fruit, which is used for stupefying fish. The seeds of H. odorutus, commonly termed Chaulincographs are annually used by the Indian chapter are applied to the property of the property

poisonous truit, which is used for stupefying fish. The seeds of H. doratus, commonly termed Chauimoogra, are employed by the Indian doctors as a remedy in some cutaneous affections.

Hy'dra, I'dra, an island of the Grecian archipelago, lying on the E. coast of the Morea, between the guife of Nauplia and Egina; area, 20 sq. Pop. 82,000. The town, of the same name, capital of the island, lies in Lat. 370 20 N., Lon. 250 30 E. Manuf. Slik and cotton stuffs, slik and leather.

Hy'dra, (Myth.,) a huge monster of the ancient world, said to have inhabited the marshes of Lernsea, in Argolia, not far from the sea-coast. Accounts vary both as to its origin and appearance. Some make it the issue of Styx and the Titan Pallas, and others, of Echidna and Typhon. It is represented as having several heads, which immediately grew up again as often as they were cut off. The number generally ranged from seven to nine, though Simonides gives it fifty, and certain historians a hundred, and even more. Its mouths, which were as numerous as its heads, discharged a subtle and deadly venom.

deadly venom.

The destruction
of this reptile
was one of the twelve labors of

Hercules.
(Zoöl.) A gen,
of minute polypi of minute potypi found in stag-nant pools of wa-ter, where num-bers are often seen clustering upon aquatic plants, &c. These animals present us with the sim-plest kind of structure which has yet been as-certained. The Hydra consists simply of a fleshy tube, open at both extremi-ties, and the ap-



Fig. 1836. — HYDRA FUSCA.

erture of the tube serving as a mouth, which is situate in the more dilated end, and this mouth is provided at its margin with a single row of tentacula, or long flexible arms, which diverge from each other like the spokes of a wheel. Among the many remarkable features in the history of the Hydra, that which appears the most so is its capability of reproducing the whole structure from separate portions of it. New tentacula will replace any which have been accidentally lost or removed. If the body is divided transversely, each segment will become a new animal; the upper one closing the aperture at its base, and the lower one speedily developing tentacula around the newly formed mouth. If divided longitudinally, each half will, in a very short space of time, begin to ply its tentacula; nay, if cut transversely into several segmenta, each, in time, will become a perfect animal.

(Astron.) A constellation in the Northern hemisphere, formed by Aratus. It is figured on the celestial globe as smake of great length, with a cup on its back, and a crow between the cup and the extremity of the tail. As it extends over such a great space in the field of the heavens, it has been divided into four parts, distinguished as Hydra, Hydra and Crater (the cup), Hydra and Crater (the cup).

An acid in which hydrogen is the acidifying principle, as hydrochloric acid, hydrobromic acid, &c. The names of-such acids are distinguished by the prefix hydro, as abbreviation of hydrogen. By some chemists the terms

as hydrochloric acid, hydrobromic acid, &c. The names of auch acids are distinguished by the prefix hydro, as abbreviation of hydrogen. By some chemists the terms are transposed, as chlorhydric, &c.

Hy dragogue, n. [Gr. hudor, and ago, I expel.] (Med.)
A medicine which possesses the property of increasing the secretions or excretions of the body so as to cause the removal of water from any of its cavities, such as catheritics. &c.

the removal of water from any of its cavities, such as cathertics, &c.

Hydrales, n. pl. (Bot.) An alliance of plants, class 
Endogens. Diac. Perfect or imperfect flowers, not arranged on a spadix, and without albumen. The alliance 
is divided into 3 orders, viz.: Hydrocharidacze, Naia-

is divided into 3 orders, viz.: Hydrocharidacez, Naiodacez, and Yosteracez.

Hydrang on comp, n. Gr. hador, water, and aggeins, vessel.] (Bot.) An order of plants, alliance Sazifrogatez. Drac. Distinct styles, and opposite leaves without stipules. It is often regarded as sub-order of Sazifragacez, with which it agrees is a many important particulars; but it differs from that order by the above characters, and in the plants composing it being of a shrubby nature. About one-half of the species are



Fig. 1337. - HYDRANGEA GUERCIFOLIA.

Fig. 1337.— HYDRAGEA GUERCIPOLIA.

natives of China and Japan. The typical genus Hydrangea contains some familiar cultivated plants; as, H. arbovescens (found wild in the Middle and Western States), H. quercifolia, a native of Florida (Fig. 1337), and H. hortensis. The latter is the common garden hydrangea, which is much valued for its large fresholking leaves and dense bunches of rose-colored, white or blue flowers. This plant requires a constant supply of water in warm weather. The leaves of H. Thasbergii form the Ama-tajl, or tea of heaven, of the Japanese. The root of H. arborescens is used medicinally in calculus complaints in some parts of this country under calculus complaints in some parts of this country under

nese. The root of H. arborescens is used medicinally in calculus complaints in some parts of this country under the name of Leven bark.

Hydramt, n. [From Gr. hydraino, to water.] A discharge-pipe from the main of an aqueduct; a water-piug or street-fountain.

Hydrargillite, n. (Min.) Same as Girbsitz, q. z.

Hydrargyrumn, n. [Lat.] (Chem.) The scientific name of quicksilver or Mexcusz, q. z.

Hydrarfibrum, n. [Gr. hudor, water; arthron, a joint.] (Med.) A white swelling. The joints most subject to this disease are the knee, ankle, elbow, and wrist. At first the swelling is slight, of the same color as the skin, but very painful, diminishing the mobility of the part affected. It can be distinguished from rheamatic swelling of the joints by its fixed and wearing pain, which often exists for a long time before any enlargement of the part is perceptible.

Hydrasfis, n. [Gr. hudor, water; the plant grows in watery places.] (Bot.) A genus of plants, order Rannaculaces. One species only is known, namely, H. Chadensis, the Golden Seal, Orange-root, or Ground Raspberry. This is a low, perennial herb, indigenous to this country, and found in hog meadows from Canada to

Kentucky. Its rhisome, or root-stock, sends up, in early spring, a simple stem, from six inches to a foot high, which is two-leaved near the summit, and bears a

Mentucky. Its rhisome, or root-stock, sends up, in early spring, a simple stem, from six inches to a foot high, which is two-leaved near the summit, and bears a single terminal greenish-white or rose-colored flower. The fruit is of a red color, and somewhat resembles an unripe raspberry. This little plant has of late attracted much attention, and aimost every well-known pharmacologist has written upon its medicinal properties. Two active principles, hydrastina and berberine, have been extracted from the rhizome. Another preparation, called hydrastin, is much used by the medical men of America, who style themselves Eclectics; it is procured by the solvent action of alcohol. The preparations of H. Canadensis are stated to have a specific influence over the mucous surfaces, and to be useful in gonorrhoa, gleet, dyspepsia, piles, constipation, ophthalmia, catarrh, and various other diseases. There can be no doubt as to the valuable tonic properties of this plant. The rhizome may be used as a dysing agent.

Hydraste. n. [From Gr. hudor, water.] (Chem.) In combination with certain metallic oxides, water seems to play the part of an acid, forming a compound that may be considered as a pseudo-sait. Thus, with oxide of sodium water forms the compound NaOH, O, or hydrate of sods, which is quite a different body to the simple NaO; in fact, such is the attraction existing between the two bodies, that they cannot be separated by the strongest heat. The hydrated oxides of the heavy metals also differ in properties to the anhydrous oxides seequioxide of chromium, for instance, is not attacked by any of the acids, even with the aid of heat, but in the hydrated condition it is readily soluble in most of them. The combination of water with the oxide is always attended with the evolution of a large amount of heat; a familiar instance of which takes place in the slaking of lime. In the case of oxide of potassium and sodium, the action is so violent that the mass becomes incan-descent.

the action is so violent that the mass becomes incandescent.

Hydrated, a. Formed into a hydrate.

Hydration, (Water of,) n. (Chem.) The water chemically combined with a substance to form a hydrate.

Hydraulie, or Hydraulien, a. [Lat. hydraulicus; Gr. hydraulikos, from hydraulie, a water-organ in which the pipes are played by the motion of water—hudor, water, and aule, a pipe.] Pertaining to water or fluids in motion through pipes, channels, &c.; pertaining to the science of hydraulies.

Hydraulically, a. In an hydraulic manner.

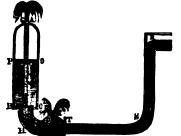
Hydraulic Engineer'ing, n. That branch of engineering which troats of the appliance of water as a motive power for mechanical purposes, and the methods that must be adopted to offer an effective resistance to the pressure which is exercised by any great volume of that fluid, whether it be in a state of rest or in motion.

Hydrau'lic Limestone, n. (Min.) Limestone con When burned taining some silica and some magnesia. taining some silica and some magnesia. When burned, this limestone furnishes the hydraulic line, so called because it will set under water. Some varieties in the United States contain 20 to 40 per cent. of magnesia, and United States contain 2 to 40 per cent. of magnesia, and 12 to 30 per cent. of alumina and silica. In making mortar from this lime, much less sand is used than with the ordinary kinds. See Churkyt; Linz.

Hydrau'lie Press. See Hydrostatic Press.

Hydrau'lie Ram, n. (Physics.) A hydro-dynamic machine, of simple and beautiful construction, invented

by Montgolfler at the close of the last century. Its object is to raise water without the aid of any other force than that produced by the momentum or moving force of a part of the water that is to be raised. The effect of a part of the water that is to be raised. The effect of its action is so great, that the machine appears to act in opposition to the laws of hydrostatic equilibrium; for a moving column of water is made to overcome and move another column much higher than itself. In Fig. 1338, which represents a section of Montgolfier's H. R.,



Mg. 1338. - HYDRAULIC RAM.

R is the reservoir from which the water falls, R 8 the height of the fall, and 8 T the horizontal tube which conducts the water to the engine A B H T C. E and D are two valves, the former of which closes its cavity by ascending, the latter by descending; and F G is a pipe reaching within a very little of the bottom C B. The valves are such that the water at its normal pressure cannot support their weight; the valve E is prevented from falling helow a certain point by a knob above, m n. When the water is allowed to descend from the reservoir, after filling the tube B H S, it rushes out at the aperture m n, till its velocity in descending R S T becomes so great as to force up the valve E, and close the means of escape. The water being thus suddenly checked, and unable to find a passage at m n, will produce a great action on every part of the containing vessels, and by its impact raise the valve D. A portion of water being admitted R is the reservoir from which the water falls, RS the

into the vessel ABC, the impulse of the column of fluid is expended, the valves D and E fall; the opening at D being thus closed, and that at mn opened. The water now rushes out at mn as before, till its motion is again stopped by its carrying up the valve E, when the operation is repeated, the fluid impulse opening the valve at D, through which a portion of the water passes into ABC. The valves at E and D thus alternately closing and opening and water at avery opening of D making. A B C. The valves at E and D thus alternately closing and opening, and water at every opening of D making its way into A B C, the air therein is condensed, for it has no communication with the atmosphere after the water is higher than the bottom of the pipe F G. This condensed air, then, exercises great force on the surface, O P, of the water, and raises it in the tube, F G, to a height proportioned to the elasticity of the imprisoned air. The principles of the hydraulic ram are susceptible of a very extensive application. In well-constructed rams, the mechanical effect obtained should be from 65 to 75 per ent of the force supplied. For raising comparatively mechanical effect obtained should be from 65 to 75 per cent of the force supplied. For raising comparatively small quantities of water, such as for single houses, farm-yards, &c., the ram is the best mechanism yet introduced, since when once set in motion with a continual supply of water, it will work by the momentum generated and destroyed for any length of time. But the concussion, and consequent deterioration of the valves, places a limit to the use of the mechanism when applied to raise large quantities.

In dram'licon, m. (Mus.) An instrument acted upon by water; a water-organ.

HYDR

piled to raise large quantities.

Hydrawlicosa, n. (Mus.) An instrument acted upon by water; a water-organ.

Hydrawlice Mills (now Hydraulic), in Vwyinia, a post-office of Albemarle co.

Hydrawlica, n. The science of fluids in motion, or the science which investigates the laws by which fluids in motion are regulated, and the means by which water is raised and conducted in pipes, &c. — See Hydrodynamics; and for the application of hydraulic power, see Hydrostatic Press, Hydraulic Ram, Archimedes' Screw, Punr, Siphen, Water-where, &c.

Hydrenter'occile, n. [From Gr. hudor, water, enteron, an intestine, and kele, a tumor.] (Mcd.) A hydrocele, or dropey of the scrotum, attended with a rupture.

Hy'driad, n. (Myth.) A water-nymph.

Hy'driad, n. (Myth.) a compound of hydrogen with another element, and also with an organic or compound radical. Areniuretted hydrogen (Asil<sub>2</sub>) is an example of the first, and hydride of methyl, or mursh-gas, of the second class.

Hy'driadate, n. A salt formed by the union of hydrodic acid with a base.

driodic acid with a base.

driotic acid with a base.

Hydriod'ie Acid, n. (Chem.) A gas composed of hydrogen and iodine. It is obtained by placing a little iodine in a glass tube, upon this some roughly powdered glass moistened with water, and then a few pieces of phosphorus, and finally more glass, and so on till the tube is two-thirds full. Gentle heat is then applied, and the gas collected by the displacement of air. The glass serves to prevent the too violent action of the iodine upon the base between M. A warentlies be described and to prevent the too violent action of the louine upon the phosphorus. H.A. resembles hydrochloric acid, q.v., is colorless, highly acid, fumes in the air, and is very soluble in water. Its solution in water is a sour, dense liquid, which is gradually decomposed by the oxygen of the air; the lodine set free being dissolved communicates to the liquid a brown color. It is also decomposed by chloring

chlorine by chlorine.

Hydiriod'sc Ether, Iodide of Ethyl, n. (Chem.)
A colorless uninflammable liquid, composed of iodine and ethyl, of a sharp, pungont taste, and a penetrating ethereal odor; pp. pr. 194; bolling-point 148° F.; pp. gr. of vapor 5°4. Form. C, H<sub>3</sub>L. At a red heat it is decomposed, giving off the purple vapors which are peculiar to iodine. When exposed to the action of the atmosphere for any length of time, it assumes reddish tints from the liberation of lodine, a change which may be easily prevented by introducing a globule of metallic quicksilver into the bottle containing it. It is nearly insoluble in water, but very soluble in alcohol, from a solution in which it is precipitated by the addition of water. It is also easily soluble in simple ether. When placed in contact with metallic zinc, the latter unites with the iodine, forming iodide of zinc, and leaving the radical Ethyl, in the form of a colorless gas, having a faint, chereal odor, of a specific gravity of a little more than 2, and burning with a brilliant white flame. At the temperature of 37°, and under a pressure of 2½ atmospheres, it is reduced to a colorless, transparent liquid, which is soluble in alcohol. The isolation of this radical requires a temperature of a little more than 300°. Common ether is the protoxide of this compound, represented with a formule C. Hollond alcohol, it has accompleted. Hydriod'ie Ether, Iodide of Ethyl, n. (Ch requires a temperature of a little more than 300°. Common ether is the protoxide of this compound, represented by the formula C<sub>4</sub>H<sub>6</sub>O, and alcohol is the same when hydrated, C<sub>4</sub>H<sub>6</sub>O<sub>2</sub>. Besides its use in the chemical laboratory as a reagent, it has within the past few years attracted the attention of physicians, especially in America and England, as a remedial agent, to be administered by inhalation, in many cases in which the use of indicated. It is given in doses of 12 or 15 drops, inhaled from a napkin or sponge. In these doses, it is a gentle stimulant, and anti-spasmodic, but in larger quantities, and when inhaled for a considerable time. It it is a gentle atimulant, and anti-spasmodic, but in larger quantities, and when inhaled for a considerable time, it becomes a powerful ancesthetic agent. It is said to be especially adapted to diseases of the lungs and bronchial tubes, and hence it has been most successfully administered in cases of bronchitis, phthisis, asthma, catarrh, and their kindred diseases. It increases the appetite, produces an increased pulse, and is said to produce great viracity of spirits, and activity of thought. When prepared with phosphorus, as by the first formula, it is sometimes naussating to the patient, on account of remaining traces of that substance, but when prepared by the other method, and of pure materials, it is free from any such objection, as any excess of chlorine would be completely expelled by the degree of heat which is necessary for distillation. The alcohol employed in its preparation should be of the purest quality, and especially should it be thoroughly deprived of all traces of fusel-oil, as is also indispensable in the manufactur of chloroform.

of chloroform.

Hydroap/atite, n. (Min.) Hydrous apatite, a milk-white mineral, occurring in rounded or mammillary masses near 8t. Girons in the Pyrences. Sp. gr. 3·1. Comp. Phosphoric acid 40·0, lime 47·31, fluorine 3·36, calcium 3·6, water 5·3.

Hydrobarom/eter, n. An instrument for determining the daugh of sea-water by its pressure.

mining the depth of sea-water by its pressure.

Hydroben'samide, n. (Chem.) A white, crystalline, neutral substance, formed by the action of ammonia on oil of bitter almonds.

oil of bitter almonds.

Hydrobo'racite, n. (Min.) A borate of lime and magnesia containing water. It is white, with red spots, and resembles fibrous gypsum. Sp. gr. 19-2. Comp. Boracic acid 47-8, lime 14-3, magnesia 10-2, water 27-7. Found in the Caucasus Mountains.

Hydrobranchia'ta, n. pl. (2001.) A section of the order Gatteropoda, containing Mollusca which breathe water only; called also Branchifera, or Water-breathers.

Hydrobromate, n. (Chem.) A salt composed of hydrobromic acid and a wet base.

Hydrobrom'te Acid. n. (Chem.) A gaseous acid closely resembling hydriodic acid, and may be prepared in the same manner, substituting bromine for lodine. Its solution is capable of dissolving considerable bromine, which gives it a red tint. Sp. gr. 271. Equivalent 81.

81.

Hydrobuchol'zite, n. (Min.) A rare mineral containing silica, alumina, water, and gypeum.

Hydrocar'bounte, n. (Chem.) Carburetted hydro-

gen gas.

-a. Belonging, or relating to a compound of carbonates

and water

and water.

Hydrocar'bons, n. pl. (Chem.) Compounds of hydrogen and carbon. They are very numerous, and form important gaseous, liquid, and solid substances. They cannot be formed by the direct union of their clements, but are derived from the decomposition of complex organic bodies. The inflammable gases, of is, fats, tallow, wax, and bodies of like nature, are examples of H., thouch some of them contain owner. organic bordes. Into innaminate gases, oils, late, tailow, wax, and bodies of like nature, are examples of H, though some of them contain oxygen in combination. There is also an extensive series of double hydrocarbon radicals, formed by the combination of two elochol radicals. Thus we have ethyl-tetryl, methyl-ethyl, and so on. Discoveries in relation to the hydrocarbons are being made so frequently, that in order to gain a correct knowledge of the subject, it is necessary to read the current chemical journals of the day.

Hydrocar'buret, n. (Chem.) An hydrocarbon.

Hydrocar'dia, n. (Or. hudor, water, and kardia, the heart.] (Med.) A dropey of the pericardium.—A collection of fluid in the pericardium, which may be either coagulable lymph, serum, or a puriform fluid. It produces symptoms similar to those of hydrothorax, with violent palpitation of the heart, and mostly an intermittent puise. It is incurable.

Hydrocele, n. [Gr. hudor, and kele, a tumor.] (Med.) A term generally applied to a collection of serous fluid in the areolar toxture of the scrotum, or in some of the coverings, either of the testicle or spermatic cord.

A term generally applied to a collection of serous fluid in the areolar texture of the scrotum, or in some of the coverings, either of the testicle or spermatic cord.

Hydroceph'alisa, n. [6r. hudor, water, kephale, the head.] (Med.) The term applied to dropsy, or water in the head. Physicians distinguish it into two kinds,—the acute and chronic, both of which are almost exclusively confined to infancy and childhood. Acute hydrocephalus is an inflammatory disease, rapid in its course, and requiring decided treatment; chronic hydrocephalus, on the other hand, may go on for many years. In acute hydrocephalus the child is usually restless and fretful, the skin is hot and dry, the pulse quickened, the appetite is lost, and the bowels costive. The eyes are dull and heavy, the face flushed, and the child complains of pain and heaviness of the head. After a time the symptoms become more manifest. The pain in the head becomes more intense; the restlessness is much increased; the expression of the countenance is altered, especially that of the eyes, which are often directed irregularly, with the pupils unequally dilated. The appetite is lost, and sometimes there is vomiting. The sleep is very much disturbed, and frequently the child awakes with a loud scream; the pulse is low and irregular, and with a loud scream; the pulse is low and irregular, and frequently convulsions take place. The disease often proves fatal in two or three days, or even less; but proves fatal in two or three days, or even less; but sometimes it is protracted over two or three weeks, depending chiefly upon the age and strength of the child, and the violence of the disease. The treatment of this disease must necessarily depend upon the strength and condition of the patient, the great object being to subdue the inflammatory action of the brain. Blood is to be freely abstracted by leeches, and some recommend the free use of the lancet. Active purgatives are also to be administered. When the active symptoms of the disease have been overcome, the system is to be gradually restored by tonics, cautiously administered. Chronic hydrocephalus differs from the other, not only in its progress being much slower, but from being rarely or only slightly attended with inflammation, and from there being always more or less of a collection of watery fluid in the brain, which is not invariably the case with the former. The chronic form is frequently hereditary, occurring in the children of weak or scrotilous parents; and it usually makes its appearance before or speedily usually makes its appearance before or a birth. The fluid sometimes amounts to and it usually after birth. The fluid sometimes amounts to many pints, giving the head a very large and unsightly appearance. The fluid is sometimes lodged in the membranes enveloping the brain, but more frequently it is contained in the ventricles, and other cavities of that

organ itself. This disease is always attended with more or less intellectual derangement. The vision is usually considerably impaired, with aquinting; speech is imperfect, and the power over the voluntary nucsics is partially lost. These symptoms gradually increase; convulsions and paralysis at length make their appearance; and death at last supervenes. The duration of the disease is extremely various; sometimes it may terminate fatally in a few context of the time it may be made and the statement of the disease.

and used has instrumentees. The duration of the dusans is extremely various; sometimes it may go on for many years. From the early period at which this disease usually makes its appearance, little can be done to arrest its progress. Sometimes puncturing the head has been attempted with success.

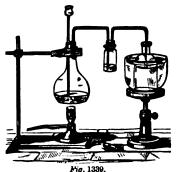
Hydrocharida cees. Hydrochards, n. pl. (Bot.) An order of plants, alliance Hydrales. Diao. Epigynous stamens, and an adherent ovary.—The species are inhabitants of fresh water. Their flowers are spathaceous, regular, dioccious, or polygamous; the perianth is superior, in 1 or 2 whorks of 3 places, the inner whort being petaloid; the ovary is inferior, 1-9-ceiled; the fruit indehiscent, with numerous seeds, which are without albumen. The fresh-water aquarium has made many of these simple plants familiar objects. One of them, Valismeria spiralis, is the best and more lasting of all aquarian plants. Anacharsis alsimastrum, the American Waterweed, or Water-thyme; Stratiotes aboides, the Waterwood, or Water-thyme; Stratiotes aboides, the Waterwood, in the superior of Spongiosa, or Spongiosa,

piralis, is the best and more lasting of all aquarian plants. Anacharsis alsinastrum, the American Water-weed, or Water-thyme; Straitotes aloides, the Watersoldier; and Hydrocharis Morsus-rane, or Spompiosa, the Frog-bit, are also plants of this order which have been transplanted from our ponds and ditches to the aquaria of our parlors and conservatories.

Hydrocharidacea, q.v.
Hydrochlor, n. (Min.) A name given to a variety of Pyrochlore (q.v.) containing water.

Hydrochlorina, n. (Chem.) A sait resulting from the union of hydrochloric acid with a base.

Hydrochlorina Acid, n. (Chem.) A coloriese gas, having an acid, suffocating odor, and producing white fumes when allowed to escape into the air, from its condensing the moisture of the atmosphere. It contains by weight 35-5 parts of chlorine, and 1 part of hydrogen. Form. HCl. It may be liquefied by a pressure of 40 atmospheres. The gas has a specific gravity of 1-290 as compared with air, is incombustible, extinguishes burning bodies, and is exceedingly soluble in water, which, at ordinary temperatures, takes up about 418 times its bulk of the gas. From its great attraction for water, it can be collected only over mercury or by the displacement of air. A piece of ice dropped into a jar of H.A. gas, is intantly liquefied by it. Its solution in water is extensively used in chemical pursuits, and is easily obtained by the action of sulphuric acid on common salt. The salt is placed in a glass flask provided with a cork and bent tube (Fig. 1339), and on the addi-



PREPARATION OF SOLUTION OF HYDROCHLORIC ACID.

tion of sulphuric acid, and the application of gentle heat, the gas passes over into a second vessel containing water, by which it is at once absorbed. For collecting it in quantity, a series of Wolfe's Bottles, q. v., is used. In this experiment the hydrogen of the water, combined with the sulphuric acid, unites with the chlorine of the salt, while the sulphuric acid unites with the sodium of the salt, to form sulphute of soda, or Glauber-salt. The solution, when pure, is a colorless solution, but the "muriatic acid" of commerce is generally of a straw color, from the presence of impurities. H. A. is a constituent of the gastric juice, q. v., and the gas is a common volcanic product. Its presence in any liquid may be detected by adding a solution of nitrate of silver. A white, curdy precipitate of chloride of silver is formed, which tected by adding a solution of nitrate of silver. A white, curdy precipitate of chloride of silver is formed, which dissolves in ammonia, and blackens on exposure to the light. In the manufacture of soda-ash, H. A. is formed in large quantities, and when allowed to excape into the air, produces an acid mist which ruins the surrounding vegetation. To prevent this, immense chimneys have been erected to discharge the gas at a greater distance from the ground. One near Liverpool is 495 feet high. These do not remedy the evil, and it is found necessary to condense the gas in water. H. A. was first obtained as a pure gas by Priestley in 1772, but its solution in water had long been known as spirit of salt, muritate acid. Its more proper chemical name is chlorabydric acid. Its composition was ascertained by Davy, in 1810.

in 1010.

Bydrochlo'ride, n. (Chem.) A compound of hydrogen, chlorine, and carbon.

Hydrochec'rus, n. (2021.) A genus of rodent animals, family Hystricide, characterized by large size, 4 toes before and 3 behind, and all armed with large nails and united by membranes. The Cappbare (H. capybare, Cuv.), of S. America, is the largest known rodent, being 3 feet long and exceedingly bulky. Its muzzle is thick, limbs short, hair coarse, and tail almost wholly wanting, and the general color yellowish-brown. It is aquatic in its habits, is hunted as game, and its flesh is quite good for food.



Fig. 1340. — THE CAPYBARA, (Hydrocharus capybara,)

Hydroco'tyle, n. [Gr. hudor. water, and kotyle, a vessel;—the concave leaf often holds water.] (Bot.) A genus of plants, order Apiaces. They are herbacoous, creeping, ausally aquatic plants; umbels simple; involucre few-leaved. H. Americana, the Pennywort, is volucte two letters with the shade of other vegetables, from Canada to S. Carolina. Flowers greenish, nearly seesile, in simple, capitate, seesile, axillary

from Canada to S. Carolina. Flowers greenish-white, small, nearly sessile, in simple, capitate, sessile, axillary numbels.

Hydrocy'amate, n. (Chem.) A salt resulting from the union of hydrocyanic acid with a base.

Hydrocyani'de Aeid, Cvannt'bul Acid, Prus'sic Acid, n. [From hydrogen and cyanogen.] (Chem.) This important acid is composed of equal volumes of hydrogen and the compound gas cyanogen, which in this instance comports itself like one of the halogens, chlorine or bromine. It is prepared in an analogous manner to hydrochloric acid, by submitting a cyanide to distillation with a strong acid. Cyanide of potassium is placed in a retort, and half its weight of dilute sulphuric acid is poured upon it. At first the distillation proceeds spontaneously from the heat developed. Equaev. 27. 39. gr. 0.0476. Combining colume 4. Form. HCY.

Hydrodo'lomite, n. (Min.) A yellowish-white mineral, found in stalactitic forms at Vesuvius. Sp. gr. 249. Comp. Lime 25-22, carbonic acid 33-10, magnesia 24-23, water 17-40.

Hydrodynam'ie, Hydrodynam'ieal. a. [Gr. huder.

Hydrodynam'ie, Hydrodynam'ical, a. [Gr hador, water, and dynamics, powerful, from dynamic, power, force, from dynamics, to be able, strong enough—probably from Sansk. in, to do, accomplish, create.]

Pertaining to the force or pressure of water.

Hydrodynamics, s. pl. [Gr. hudor, water, dunamics, power.] That branch of science which treats of

Fortaining to the lotte or pressure of water, dumansit, power. That branch of science which treats of
the pressure, equilibrium, cohesion, and motion of
fluids, and also of the machines by which water is raised,
or in which water is used as the first mover. The subject is divided into two parts, — hydrostatics and hydraulics. The formes includes the pressure, cohesion,
and equilibrium of fluids, while the latter comprehends
their motion, together with the machines with which
depend greatly upon the characteristic property of
fluids; namely, that of transmitting equally is all directions pressures applied at their surfaces. As a science,
hydrodynamics is, comparatively speaking, modern. It
was cultivated with less success by the ancients than
any other branch of mechanical philosophy. The general principles, however, upon which the science of hydrostatics is founded were first given by Archimedes,
about 260 years before the birth of Christ. He maintained that each particle of a fluid in equilibrio is
equally pressed in every direction. He also inquired
into the conditions according to which a solid body
floating in a fluid should assume and preserve a position of equilibrium. The first attempts at the construction of hydraulic machinery were made in a Greek school
at Alexandria, which flourished under the patronage
of the Polomies. The fountain of compression, the
siphon, and the forcing-pump were invented by Cteribus
and Hero, about 120 years after the birth of Christ.
The stiphon, a simple instrument used for emptying of the Ptolemies. The fountain of compression, the siphon, and the forcing-pump were invented by Cteribus and Hero, about 120 years after the birth of Christ. The siphon, a simple instrument used for emptying vessels, and the forcing-pump, a more complicated machine, will be found described in the articles Pump, Stron. The fountain of Hero (Fig. 1052), as it is usually called, is a machine, the principle of which depends upon the transmission of the pressure sustained by a body of water in one vessel to that in another, by means of the slasticity of air. An apparatus constructed on the principle of the fountain of Hero is employed for draining the water from the mines of Schemnitz, in Huugary. Notwithstanding these inventions of the Alexandrian school, its attention does not seem to have been directed to the motion of fluids. The first attempt to investigate this subject was made at Rome, in the reigns of Nerva and Trajan. From that time very little advance was made in hydrodynamics till the end of the 16th century, when the discoveries of Castelli and Torricelli gave a new direction to the science of hydraulics. The discoveries of Sir Isaac Newton and other philosophers have caused this branch of science to progress rapidly in later years. The analytical theory of

hydrodynamics resolves itself into the integration of equations of partial differences. Euler, to whom this branch of the calculus is owing, gave the general formule for the motion of fluids, founded on the laws of their equilibrium, and thus reduced the whole mechanics of fluid bodies to a single question of analysis. Hydraulic machines are of great variety. They are of two kinds, — machines having a motion of rotation, and machines having an alternate motion. When water acts on a machine as a morang nower it exerts on the next machines having an alternate motion. When water acts on a machine as a moving power, it exerts, on the part impinged on a pressure. The immediate effect of this pressure will be to make the part struck move in the direction of the power, or in some constrained direction; in either case the space will be passed through by the part. Among the machines having a motion of rotation may be mentioned water-wheels of varied kinds. They may be divided into two classes,—vertical wheels, with the axis horizontal, and horizontal wheels, with the axis water. with the axis horizontal, and horizontal wheels, with the axis vertical. The hydraulic machines which pos-sess an alternate motion are the water-column machine and the hydraulic ram (which see). The water-column machine consists of a cylinder in which a piston is driven backwards and forwards by the weight of a high driven backwards and forwards by the weight of a high column of water contained in an upright pipe. A work-ing-beam is attached to the piston-rod, which trans-mits a motion to the common pumps. This machine, used in Hungary, is mentioned above as an adaptation of the principle of Hero's fountain. The machines for raising water are pumps,—the Archimedes' screw, and pail or bucket, machines. Descriptions of the different hydraulic machines are given under the respective names of each. names of each.

hydraulic machines are given under the respective names of each.

Hydro-elec'trie Machine', n. (Electric.) A machine invented by W. Armstrong, consisting of a steamboiler, insulated by means of strong glass pillars, on which it resta. Attached to the upper part of the boiler, a large number of bent iron tubes, terminating in wooden jets, allow the steam to pass out with considerable force. A conductor projects from the boiler, terminating in a knob, while in front of the bent tabes is a metallic case, containing several rows of points for carrying off the opposite electricity of the steam. It has been shown by Prof. Faraday that the electricity generated by this machine does not depend on the issue of steam through small orifices, nor on any chemical or physical change due to evaporation or condensation, but is merely the result of the friction of the waterparticles which are driven through the jets by the steam. These particles act similarly to the glass plate in the ordinary machine, and give out positive electricity, while the wooden jets and pipes act as rubbers, and give out negative electricity. The true source of electricity in the machine is in fact the friction of the steam, the boiler being negative and the escaping vapor positive. tricity in the machine is in fact the friction of the steam, the boiler being negative and the excaping vapor positive. The best material for the orifice of the jet appears to be wood, while ivory is one of the worst. A small quantity of oil or turpentine in the exit-pipes produces a remarkable change in this machine,—the electrical states become reversed, the boiler being positive and the steam negative. The H. E. machine is a powerful source of electricity.

Hydro-extract'or, s. An apparatus for removing moisture from yarns or cloths in process of manufacture.

ture.

Hydroferrieyam'ie Acid, n. (Chem.) A compound obtained in red crystals, by the evaporation of a solution of ferrocyanide of lead which has been decomposed by sulphuretted hydrogen.

Hydroferrocyam'ie Acid, n. (Chem.) An acid is obtained, according to Liebig, by adding to a saturated solution of ferrocyanide of potassium an equal volume of hydrochloric acid. The white precipitate of the acid thus obtained is washed with hydrochloric acid, dried in valves on a tile, and crystallized by the addition of ether to its solution in alcohol.

Hydroffluenc'ie Acid, a. (Chem.) A very remarkable

ether to its solution in alcohol.

Hydrofluor'ie Acid, s. (Chem.) A very remarkable acid, formed of fluorine and hydrogen. It has a very powerful affinity for silicon, abstracting it from its compounds with great facility. It is therefore necessary to prepare it in metallic vessels, its solvent action on glass being very great. In commerce, vessels of lead are generally used; but when it is desirable to obtain an acid of perfect purity, platinum vessels are employed. To prepare this substance, I part of finely powdered fuor-spar is mixed with 2 parts of oil of vitrol, and the gelatinous mass so formed is distilled in a leaden retort, to which a U-tube is fitted. The U-tube is surrounsed by a powerful freezing-mixture, and the acid distils to which a U-tube is fitted. The U-tube is surrounded by a powerful freezing-mixture, and the acid distils over. Hydrofinoric acid is a densely funning, colories, volatile liquid, boiling at 60°, and freezing at about—6° Fahr. The preparation of the acid must be conducted with great care, as the funes of it are very deleterious, and a drop falling on the skin will occasion a deep and painful sore. Poured into water, it causes the evolution of great heat. It is easily recognized by its corrosive action on glass; and a weak solution of it is much used in the arts for etching that substance. The glass to be etched is covered with beeswax, the design being traced on the wax with an etching tool. The whole is the exposed to the action of the acid, which eats away those on the wax with an etching tool. The whole is then exposed to the action of the acid, which eats away the portions unprotected by the wax. Diluted hydrofluoric

portions unprotected by the wax. Diluted hydrofunoric acid dissolves the metals, extricating hydrogen and forming fluorides. Form. HF.

Hydrofinosilie'ie Acid, n. (Chem.) An acid only known in the form of solution, which is obtained in passing fluoride of silicon in water. Sp. gr. abt. 1075. Form. HF.SiF<sub>2</sub>.

Hydrogen. n. [Fr. hydrogène; Gr. hudor, water, and gennaö, to generate.] (Chem.) An elementary substance, first isolated as a constituent of water by Cavendish in 1766. It is a colorious, transparent, tastoleas, inodorous

gas, which is doubtfully claimed to have been liquefied. Hydroge'ninm, s. See Hydrogen.
It is almost insoluble in water, 100 volumes of that Hydrog'emons, a. Composed of, or relating to, hygas, which is continuity claimed to nave been inquened.
It is almost insoluble in water, 100 volumes of that
fluid only absorbing two volumes of the gas. It is the
lightest substance in nature, 100 cubic inches of it
weighing only 218 grains. It was at one time doubted
whether it existed in the uncombined state in nature; whether it existed in the uncombined state in nature; but the experiments of Bunsen prove that it is evolved, though in very variable proportions, by the solfaturas of Iceland. As a constituent of water, it is most exten-aively distributed throughout nature. It also exists in combination with oxygeu in most inflammable minerals. combination with oxygeu in most inflammable minerals. It is an important element in all organic substances and enters into the composition of most substances in daily use, whether drawn from the mineral, vegetable or animal kingdom. Having a very great attraction for oxygen and chlorine, when in the nascent condition, it is much employed in the laboratory for deoxidizing or dechlorinating purposes. It is prepared in a variety of ways, the most usual being by pouring dilute sulphuric acid on granulated zinc or iron clippings, when the following reaction takes place:  $Zn + SO_2H_2O = ZnO + SO_2 + H_2.$ 

It may also be prepared by passing steam over red-hot iron filings, by plunging sodium or potassium into water, or by electrolysis of water; all of which methods are more scientifically interesting than practical. When since and dilute sulphuric acid are used, the gas passes off rapidly, and may be collected over water. Prepared in this way, it contains a number of impurities, such as aresenic, sulphur, antimony, &c.; but these may be removed by passing the gas through solutions of hydrate of potash, nitrate of silver, and oil of vitriol. Mixed with air, it may be breathed without any other effect than raising the pitch of the voice many notes higher. Mixed with oxygen, olefant gas, or atmospheric air, it forms an explosive compound of great power. The real nature of H has long been an interesting point of discussion among chemista, many supposing it to be a metal in a gaseous form, and prophesying with certainty, with Dumas, that, if ever it is liquefied, it will present the appearance of quicksilver; while others contend, with Odling, that it is a neutral substance, possessing both the basic properties of a metal and the chlorous properties of a gas. H is almost as passive or inert as nitrogen in its behavior toward other elements under normal pressures and temperatures, its greatest chemical activity being loward chlorine. Yet with this it will not combine spontaneously in the dark, though light causes an immediate combination. When mixed with normal pressures and temperatures to greates careful and its being some and the pressure of the combine spontaneously in the dark, though light causes an immediate combination. When mixed with oxygen in air no combination, takes place, but certain metals seem to condense the mixture and cause a combination, water appearing and heat being produced. At temperatures higher than normal, H. readily combines with several elements, as sulphur, indine, and oxygen, and carbon at the temperature of the voltake arc. The power that H. has of being replaced by metals in its combinations has led Gerhardt and others to classify metals in accordance with their hydrogen-replacing power. Most metals replace one atom of hydrogen in its combinations, such as potassium, sodium, zinc, &c.; metals in accordance with their hydrogen-replacing power. Most metals replace one atom of hydrogen ints combinations, such as potassium, sodium, sinc, &c.; others replace two atoms of hydrogen, such as palladium, platinum, and tin; those which replace three atoms of hydrogen, such as bismuth, arsenic, and antimony. Others replace three atoms of hydrogen by two of metal, such as aluminum, iron, manganee, and others, two atoms of which replace one of hydrogen. In these cases, the basicity of the metal is often expressed by dashes over the symbol belonging to it. Thus, chloride of bismuth is written Bi<sup>m</sup>Cl<sub>2</sub>, and bichloride of platinum Pl<sup>m</sup>Cl<sub>2</sub>. This system of expressing basic power was first used by Odling. H. is not only replaced in its compounds by metals, but also by complex organic compound atoms, such as ethyl, methyl, &c. The theory, to, that H. can only exist separately in the state of a double atom, is daily gaining ground, much light being thrown on the subject by the consideration of the properties of the hydrocarbons forming alcohol radicals. Thus, hydrochloric acid is represented as a double atom of H, in which one atom is replaced by chlorine. Its union with other bodies forms four great types, in which of H, in which one atom is replaced by chlorine. Its union with other bodies forms four great types, in which all compounds are modelled. These four are HH, HCl<sub>1</sub>, HHHN. (See also Types.) H is used principally in the oxhydrogen blow-pipe. The chief compounds of H. are water, ammonia, hydrochloric acid, and many others, which will be found described under their necessaries beck.

pounds of H. are water, ammonia, hydrochloric acid, and many others, which will be found described under their respective heads. Equic., 1. Sp. gr., 0.0692. Combining robusts, 2. Eymbol, H.

H., Bisocride of, a peculiar compound, discovered by Theuard in 1817. It is generally prepared by digesting binoxide of barium with a dilute acid, at a low temperature. It is a coloriess, transparent, syrupy liquid, with a harsh, bitter and astringent taste. It does not freeze at —22° Fahr., and evaporates without decomposition. Its sp. gr. is 1452. From the extra equivalent of oxygen being so loosely combined, it is set free on nearly every occasion. As might be expected, peroxide of hydrogen is a powerfully oxidating agent. It has a yet received no extensive use, although it has been employed occasionally in medicine. Equic. 17. Form. H. 90.

H., Persulphide of, a light-yellow, transparent, oily fluid, possessing a peculiar acrid color and bitter-sweet taste, produced by adding an excess of hydrochloric acid to the solution of an alkaline pentasulphide. Owing to its property of dissolving sulphur, its composition has not yet exactly been made out.

H., Teroxide of, a product of the electrolysis of water, according to the experiments of Beaumert, Form. H. 90.

water, morrows - From H<sub>1</sub>0<sub>0</sub>.

Hy'drogenate, Hy'drogenise, v.a. [Fr. hydrogener.]

To combine with hydrogen.

drugen.

Hydrog mony, n. [Gr. hudor, water, and gnosis, knowledge.] The history and description of the waters of the earth.

of the earth.

Hydrographer, n. [Fr. hydrographe.] One who describes the sea or other waters; one who draws maps of the sea lakes, or other waters.

Hydrographique.] Relating to hydrography, or to the description of the sea sea-coast, isles, shoals, depth of water, dc., or of a lake.

Hydrographically, adv. In an hydrographical manner.

myurography; a. [Gr. hudor, water, and graphō, to describe.] The description of the waters existing on the surface of the earth; particularly with reference to the bearings of the coast, the depth, currents, and other circumstances important or useful in navigation. H. implies the same thing with regard to the sea that geography implies with respect to the land.—Hydrographical Charts or Maps are projections of some parts of the ocean, in which the meridians, parallels, &c., with the coasts, capes, rocks, shallows, &c., are laid down for the use of navigators.

Hydrohessmiratte, n. (Min.) A hydrated oxide of iron. Same as Tuborre, q. v.

Hydrohedse, n. (2001.) Hydra-like.

Hydrodiae, n. pt. (2001.) An order of Acalepha, which, in the classification of Agassiz, includes the lowest acalepha and embraces two more or less distinct forms, one of which, though having the structure of acalephs, re-

of which, though having the structure of acalephs, reminds us of Fulpp; and the other closely resembles the Mediuse proper. All the so-called hydroid polyps, and the naked-eyed mediuse, belong to this order, which is divided into 8 sub-orders.

Hydrolan'thamite, n. (Min.) Same as LARHA-

NITE, q.v.Hy'drolite, n. (Min.) A name given by some to the mineral Gmelinite (q.v.), from its containing about 20

mineral Gmelinite (q. v.), from its containing about 20 per cent. of water.

Hydrological, a. That relates to hydrology.

Hydrological, a. One skilled in hydrology.

Hydrology, n. (Fr. hydrologis; Gr. hudor, water, and logos, discourse, doctrine o; (Phys. Geog.) The doctrine or science of water, its propertiee, phenomena, and laws. The principal part of the water on the globe occupies a large depression of the surface, and is denominated the Occar. Different parts of it are known as the Pacific, the Atlantic, the Indian, the Akcric, and the Anyarctic oceans. The rest of the surface rises above the level of the ocean, or if depressed is occupied by waters that do not connect with the great body of the ocean. The form of the land, or, in other words, the form of the line of intersection of the surface of the ocean with the land, is extremely irregular, the water ocean with the land, is extremely irregular, the water entering the land at numerous recesses, and the land projecting into the water by various promontories. The former are called IXLAND SEAS, GULFS, or BAYS, according to the extent to which the water is land-locked. The waters reposing in hollows within the land are called LAKES; and the waters running along the surface to enter the ocean or the lakes, or be lost in plains, are called Ruyers. The rivors connect with each other, and form large and definite RIVER SYSTEMS, draining definite form large and definite River Systems, draining definite tracts of land. The grand phenomens of the ocean include the regular Thors and Curannts which affect it, the Winds and Storms which disturb it, its temperature, depth, and mineral contents. The phenomena of fresh water actually on the surface are quite distinct; and the phenomena of water in the atmosphere, including the falling and distribution of rain, belong to Mitzoneology, another department of Physical Geography. Few things connected with the laws of matter and their visible results on the earth are more striking than those which belong to the circulation of water around and through the earth. The warm air that floats above the surface of the ocean is constantly raising vapor, with through the earth. The warm air that notts above the surface of the ocean is constantly raising vapor, with which the atmosphere is charged to the extent of at least four parts out of five, being ready to give it off at the slightest change of temperature. When the air in this state impinges upon land, it becomes either more heated, and therefore more absorbent (the additional supply being readily obtained), or chilled and less absort and in a condition to deposit moisture as rain. T on all high grounds, which are necessarily colder than the lowlands in the same latitude, and on all cooler lati-tudes to which clouds are drifted, there is occasional rain, often very heavy and continuous, over large tracts. The rain that thus falls is partly, no doubt, reabsorbed into the air, or is used in the production of vegetable and animal tissue. A great part, however, runs along the carth's surface in streams and rivers, circulating at the surface visibly, and the rest enters the strate, pervades surface visibly, and the rest enters the strate, pervades them, and passes through them invisibly from place to place, coming out again in springs, and completing another circulation out of sight. The influence of water is felt everywhere; and all the phenomena of structure observable in rocks of every kind are influenced by this complete and never-coasing circulation. H is thus a department of great importance and interest. The details will be found considered in various separate articles, of which the names are printed above in capital letters. Hydroumagme'site, n. (Min.) A white, brittle hydrocarbonate of magnesia, found at Hoboken, N. J., and Texas, Pa. Sp. gr. 2145.

Hydromel, n. [Gr. Andor, water, and meli, honey.]
A liquid consisting of honey and water.
Hydrometal lurgy, n. The act or process of assay-

ing or reducing ores in the wet way, or by means of liquid reagents.

Hydrometeorolog'ical, a. Belonging or relating

to clouds, rain, &c.

Hydrometeorol'ogy, n. That department of meteorology relating to water in the atmosphere, as clouds, rain. &c.

Hydrome'teors, n. pl. [From Gr. hudor, water, and meteora, meteors.] A term generally applied to the aqueous phenomena of the atmosphere, as rain, snow, hall, &c., taken collectively; — but also sometimes used

in the singular.

Hydrom'eter, s. [Fr. hydromètre; Gr. hudo Hydrom eter, s. [Fr. hydromètre; Gr. hudor, water, and metron, measure.] An instrument for measuring the relative densities, or specific gravities, of fluids; and thence the strengths of spirituous liquors, which are inversely as their specific gravities. The principle upon which the ordinary hydrometer is constructed is as follows: — When a body is immersed in a fluid, it loses as much of its weight as is equal to the weight of the "uid which it displaces. Thus, if a body be suspended from one arm of a balance, and counterpoised by applying weights to the other arm; and then, while suspended, it be immersed in water, it will be found that the counterpoising weight is not sufficient, and in order to restore equilibrium, a weight equal to the weight of the water displaced must be added. If, then, the same body be immersed in two different fluids, the weights which till respectively lose in each will be directly proportional to the specific gravities of the fluids; because the

water displaced must be added. If, then, the same body be immersed in two different fluids, the weights which it will respectively lose in each will be directly proportional to the specific gravities of the fluids; because the loss of weight is always equal to the weight of the fluid displaced, — that is, the magnitude of the body multiplied by the specific gravity of the fluid. The same principle holds good in the case of substances which are lighter than the fluid; for when a body floats upon the surface of a fluid, the weight of the portion of fluid displaced is equal to the weight of the floating body. All the instruments called hydrometer, or adrometer, are constructed upon this principle in hydrostatics. Baumé's (Fig. 1341) is generally recognized in the U. States, and is much used on the Continent of Europe, especially for liquids heavier than water. It is made of two sorts, one for liquids lighter, and the other for those heavier than water, and of these there are varieties for special liquids. For acids or salts the instrument is graduated by sinking it first in pure water, and ballasting it to that the water line shall be near the top of the stem. This fixes the zero point. It is then floated in a solution of 15 parts by weight of dry common salt in 85 parts of distilled water: and the point cut by the water line is marked 160. From these the whole stem is divided into degrees, which should reach to 660 for sulphuric acid. The greater the degree indicated in its use, the more dense is the fluid. For applications liquors the zero point upon the stem is determined from a solution of 10 parts of dry salt in 90 of water, in which nearly the whole of the stem should be out of the fluid. The 10-degree point is given by pure water, and the degrees are from these marked upward, even to 700 for sulphuric ether; the larger the degree indicated the lighter the fluid. Instruments for special uses are made from these, but with short range adapted for their particular service. The specific gravity of a liquid is as

iscipi, a being the degree given by the scale. But tables are prepared for convenient reference.— Cartier's H. is also much used in commerce, especially by the French. It is made by adopting the 22° point of Baumé, and dividing the 16 degrees on each side of this into 16 equal degrees. The degrees of Cartier (C.) are converted into those of Baumé (B.), and reciprocally by the formula, 16 C. = 16 B. + 22; whence the specific gravity, g, corresponding to C. degrees = 180°. The H. of Raumé and Cartier are based on the temperature of mula, 16 C. = 16 B. + 22; whence the specific gravity, g, corresponding to C. degrees = \frac{18:9c}{15:0c} \text{The } H. of Baumé and Cartier are based on the temperature of 12:5c Cent. (84:9c F.); and when used for a liquid at a different temperature, allowance is to be made, as given in the tables. In Great Britain \( \frac{8}{3}\) kez's \( H. \) is directed by Act of parliament to be used in collecting the spirit revenue. It consists of a thin, flat stem, about six inches in length, divided on both sides into eleven equal parts, each of which is again subdivided into two. This stem carries a hollow brass ball, about one inch and a half in diameter, in which is fixed a conical stalk terminating in a pear-shaped weight, so that when the instrument is placed in a fluid, it may float with the other extremity perpendicular to the surface. Ten different weights of different magnitudes are also applicable to the lower portion of the graduated stem. Nine of these weights are circular, with a slit in each to fit the stem, and are numbered respectively 10, 20, 30, 40, 60, 60, 70, 80, and 90. By the successive application of these, the instrument may be sunk so as to obtain the whole range of specific gravities, from pure alcohol to distilled water. The tenth weight is in the form of a parallelopiped, and can be fixed, when necessary, to the upper part of the stem. In order to calculate the strength of a portion of spirit by this hydrometer, a portion of the liquid is placed in a tail glass vessel, and the temperature noted by means of the thermometer. The instrument is then floated, and one or more of the weights is added, until the lower part of the scale sinks beneath the surface. The number on the stem in contact with the surface is then observed, and added to the number is referred to

weight employed; and this third number is referred to  $\mathbf{U}\mathbf{U}\mathbf{U}$ 

a series of tables calculated for the purpose. In these tables, under the proper temperature, will be found the percentage of strength required.

Hydrome'tra, n. [Gr. hudor, and metra, the womb.]
(Med.) Dropsy of the uterus.

Hydromet'ric, or Hydromstrata, a. Pertaining to an hydrometer, or to the determination of the specific gravity of fluids.

Hydromet'rograph, n. [Gr. hudor, metron, a measure, and grapho, to describe.] An instrument for measuring the quantity of water discharged in a given time.

Hydrom'etry, n. The art of measuring the specific gravities of fluids.

Hydrom'etry, n. The art of measuring the specific gravities of fluids.

gravities of fluids.

Hydro-mitroprus'sic Acid, n. (Ch-m.) When binoxide of nitrogen is transmitted through a solution of hydroferricyanic acid, it is absorbed, hydrocyanic acid being disengaged, and a new acid—hydro-nitroprussic acid—is formed, which, when combined with the metals, gives rise to the nitroprussides, (q. v.) Form. H<sub>2</sub>Fc<sub>3</sub>NO<sub>5</sub>.

Hydropath'ic, or Hydropathical, a. Pertaining to hydropathy.

Hydropath'ically, adv. In an hydropathic manner.

Hydropath'stally, adv. In an hydropathy.

Hydropathy.

Hydropath'ieally, ade. In an hydropathic manner.
Hydropath's, n. One who practises hydropathy.

Hydropath's, n. Gr. Andor, water, and pathos, disease.] (Mcd.) A mode of curing disease by means of the application of water. The system owes its origin to one Vincenz Priessnitz, who, in 1826, established an institution at his native place, Grafenburg, in Austrian Silesia, for the cure of diseases by this mode. The system soon spread, and now there are in this country a number of hydropathic establishments. Without claiming for the system all that its votaries demand, there can be no doubt that it is of the greatest benefit in a large number of cases. Particularly is it of benefit in cases of indigestion, nervousness, an impaired constitution, a too full habit, or in such as have been living too freely, without taking much ascretise. The system of dictary and exercise that is kept up at these places is perhaps not less conducive to a cure than the baths. Having, under the head Bath, already noticed at length the different forms of baths, and the great importance of bathing, little more remains for us here than to notice shortly some of the forms in which it is employed as a remedial agent. These are very various. Besides the ordinary bath and the shower-bath, one of the most common is the douche-bath, in which a single jet of water, varying in size from the thickness of a quill-pen to that of a man's arm, is projected with great force, either from above, below, or one side, upon a particular part of the body. The sits-bath is taken sitting; besides which there are the foot-bath, hund-bath, &c. Sometimes, when the patient is sitting in a warm or tepid bath, cold water is poured over the head and upper part of the person. Pieces of coarse linen, saturated with cold water, are also applied to the skin, and covered over with dry clotha, and usually remoistened several times a day. The wet-sheet packing is one of the characteristics of the system. It consists in the patient being closely enveloped in a sheet

DIA, q. v.

Hydropol'tis, n. (Bst.) A genus of plants, order Cubombuces. H. purpurea is said to be nutritious, but

slightly astringent.

Iy'drophane, n. [Gr. hudor, water, and phaino, to make clean.] (Min.)

A white translucent var. of opal.

q. v., which becomes more translucent or transparent in water. Hence the name.

Hydroph'anous, a. (Min.) Applied to a mineral

transparent in water.

Hydroph'idse, n. pl. (Zoöl.) A section of Ophidians, including the Sca-snakes or Water-snakes. These



Fig. 1342. — BANDED SEA-SNAKE (Chersydrus fasciatus.) a, head ; b, part of back.

a, head; b, part of back.

are principally distinguished by having the tail compressed or flattened sideways, for the purpose of swimming. They are armed with poison-fangs; but these are of small size, and are associated with a row of non-venonus maxillary teeth.

Hydrophil'das, n. pl. [Gr. hudor, and phileo, I love.]

A family of coleopterous insects, comprising aquatic beetles, which are ovate, hemispherical, and with the horax in header than long. The adors and the tibise

beetles, which are ovate, hemispherical, and with the thorax broader than long, the edges and the this slightly spined, but terminated by strong spura, and the tarsi are commonly clilated so as to aid in swimming. They are less agile in swimming than the Dyticides, and move their posterior legs alternately. They stay in the water by day, but take wing at night.

Hydrop'ie. n. [Fr hydropique, from Gr. hydropikus.]

(Mrd.) One who labors under dropsy.

Hydrop'ie lal, a. Relating to dropsy.

Hydrop'ically, adv. In an hydropical manner.

alumina 053, oxide of iron 1930, oxide of manganese, 436, magnesia 2287, water 1336.

Hydrophe'bia, s. [4: hador, water, and phobeo, I feat.] (Mod.) A disease occasioned by the bite of a rabid animal, and so called from the great dread that those who suffer from it manifest at the sight of water. The dog, cat, fox, and wolf are the animals among whom it is not capable of being communicated, as it is to man. Great differences of opinion have prevailed concerning this disease, some able physicians going so far as to say that no such disease exists, and that in the few cases of so-called hydrophobits of which they had become cognizant during many years practice, the seeming disease was the result of fear, the symptoms being due to a nervous affection, not to actual venom. Dr. John Hunter records an instance where 21 persons had been bitten by a supposed mad dog, of whom only one had those who suffer from it manifest at the sight of water. The dog, cat, fox, and wolf are the animals among whom this disease is most common,—among whom it is natural; but there is perhaps no animal to whom it is not capable of being communicated, as it is to manoreat differences of opinion have prevailed concerning this disease, some able physicians going so far as to say that no such disease exists, and that in the few cases of so-called hydrophobia of which they had become cognizant during many years practice, the seeming disease was the result of fear, the symptoms being due to a nervous affection, not to actual venom. Dr. John Hunter records an instance where 21 persons had been bitten by a supposed mad dog, of whom only one had hydrophobia. Such a result is in accordance with the above-stated opinion, since in the case of so dreaded a disease panic fear might easily produce a simulation of above-stated opinion, since in the case of so dreaded a disease panic fear might easily produce a simulation of the disease in much the greater proportion of cases. On the other hand many physicians believe in the actual existence of hydrophobia, and M. Pasteur announced in 1884, to the French Academy, that he had isolated the specific venom, and could protect bitten persons against its effects by inoculation with specially treated virus. He established a hospital for the cure of the disease in Paris, and others have been founded in New York and slewshers. Many persons have been treated disease in Paris, and others have been founded in New York and elsewhere. Many persons have been treated by this process, though its efficacy still seems somewhat problematical. As regards the symptoms of hydrophobia, the prevailing opinion has long been that the affected animal becomes morose and sullen; runs about wildly, biting at whatever comes in its way, at first with respect for its master, but afterward forgetting him; the tongue hangs out, the mouth is kept open and discharges a large quantity of froth, and a dread of water is shown. In this state the animal seldom lives more than 24 hours. These views have recently been water is shown. In this state the animal seldom lives more than 24 hours. These views have recently been denied by Mr. John P. Haines, of the Society for the Prevention of Cruelty to Animals. He says that during the hirty years existence of the society no undoubted case of hydrophobia had been observed by its agents, and that not a single case had occured among the more than 160,000 dogs and other small animals cared for during the three years preceding his statement. Despite this negative experience, he believes there is such a thing as hydrophobia, but says that the popular ideas of the symptoms are incorrect. He states that a mad dog does not dread water, though it laps it with difficulty and cannot swallow it. If does not run about wildly, but jogs along slowly, without sign of excitement, but with a disposition to snap at any man or animal that comes near. A hoarse how is at times excitement, but with a disposition to snap at any man or animal that comes near. A hoarse how is at times made, but a mad dog never barks, yelps, whines, or growls, and never froths at the mouth. The surest sign of madness is a thick and ropy brown mucus clinging to the lips, which the dog vainly tries to rub off with its paws or wash off with water. Mr. Haines does not suggest the application of the knife, or of hot iron, or caustic to the wound, but says the best thing to do is to 'take a few very hot vapor baths, and then try to forget all about it. The chances are incalculably great that you will be perfectly safe." With regard to the Pasteur method of treatment, the following statistics have been published: Of persons bitten by dogs undoubtedly mad,

method of treatment, the following statistics have been published: Of persons bitten by dogs undoubtedly mad, only 1:34 per cent. died after treatment; of those bitten by dogs not certainly affected, only 0:38 per cent. The former ratio, without treatment, is placed at 16 per cent. By drophob'fe, a. Pertaining to a dread of water, or canine madness. An instrument for obtaining specimens of the water of a river, a lake, or the ocean at any particular depth.

Hydrophthal'mia, or Hydrophthal'my, n. [Gr. hudor, and ophthalmos, the eye.] (Med.) A swelling of the bulb of the eye, from too great a collection of vitreous or aqueous humors.

Hydrophylla cese, n. (Bot.) An order of plants, alliance Ortusales. Diag. Stamens alternate with the could be the other and a contract the country of the cou alliance Ortusales. Diag. Stamens alternate with the sepals, two styles, and a circinate inflorescence. —They are herbs, shrubs, or small trees; leaves alternate, or the lower opposite, often lobed; flowers in circinate racemes or unilateral spikes, rarely axillary and solitary; calyx flow-cleft, the sinuses usually with reflexed appendages, persistent; crolla flow-lobed, regular, with ten melliferous scales near the base; stamens flow, inserted into the base of the corolla; anthers two-celled, experted in over the simula one colled; style single serted into the base of the corolla; anthers two-celled, versatile; ovary free, simple, one-celled; style single, terminal, bifid; stigmas two; placents two, parietal or on stalks from the base of the cavity; fruit-capsule invested with the permanent calyx; seeds few, crustaceous; embryo conical, in abundant cartilaginous albumen. The order includes 16 genera and 75 species of the typical genus Hydrophyllum. There are two familiar American species, H. Virginicum, the Viginian Water-leaf, and H. Cunadense, the Canadian Water-leaf or Bur-flower. Wydromhytte. n. [Gr. hudor, and phytm, a plant.]

H. (and chie, the Camenian water-lead to Larianeau, Hy (drophyte, n. [Gr. hudor, and phyton, a plant.] (Bot.) A plant which thrives in water; a name given to algaceous plants, and sometimes confined to those which are found in fresh water.

(Min.) A rose-red variety of Rhodonite, q.v., from

thereby pointed out the hour.

Hydrosil'ielie, n. (Mn.) An amorphous substance or crust from Patagonia and Aci Castello, Sicily, containing silica 44'90, magnesia 4'90, lime 33'32, soda 2'11, potassa 1'86, water 13'2'1.

Hy'drostat, n. A contrivance for preventing the explosion of steam-boilers.

Hydrostat'ic, or Hydrostat'ical, a. [Gr. ha water, and staticos, from stao, histoni, to make sta

water, and states, from state, attempt, to make stand.] Relating to water or non-elastic fluids in a state of rest; relating to hydrostatics.

Hydrostatically, adv. According to hydrostatics, or to hydrostatic Balance, a. A balance for weighing substances in water, for the purpose of accertaining their appetitic graytifes. specific gravities.

specific gravities.

Lydrostatie Bellows, n. An apparatus for illutrating the hydrostatic paradox, or that peculiar property of liquids in virtue of which they trans-

or liquids in virtue of which they transmit pressure equally in every direction. It consists of two boards connected by a band of leather, forming a closed vessel, and a tube is inserted in the top or at the side. Weights are placed on this board, and the water is placed on this board, and the water is comed into the transmit into the transmit. placed on this board, and the water is poured into the tube. As the water fills the tube, the board rises with the weights upon it. If the surface of the board is 100 times as large as the end of the tube, one pound of water in the tube will balance 100 pounds on the board. As the surface of the board is 100 times as large as the end of the tube, there are 100 times as many particles of water in contact with the tube, there are 100 times as many par-ticles of water in contact with the board as there are at the end of the tube; and as each particle is made to exert the same pressure, one pound of water in the tube ought to balance pounds on the board. Hydrostatic Paradox. s. That

principle in hydrostatics according to which any quantity of water, however small, may be made to balance any weight, however great.—See Hydrostatic Bellows.

Hydrostatic Press, (also called the HIDRAULIC Hydrostatic Press, (also called the HIDRAULE PRESS, and sometimes, from the name of the enginer who gave it the form under which it is now constructed, and brought it into general use, Braman's Press,) A machine by means of which an enormous force or pressure is obtained through the medium of water. The principle is almost the same as that of the H. Bellows, i. e., that by means of a liquid a small pressure upon a small surface may be made to exert a great pressure upon a large surface. In Fig. 1344 we have two cylinders, with a plunger, or piston, in each. Suppose that the surface plunger, or piston, in each. Suppose that the surface of the larger piston, P, is 30 times that of the smaller, p; if the latter is pressed downwards by a weight of one pound, an upward pressure of one pound will be brought

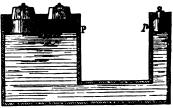


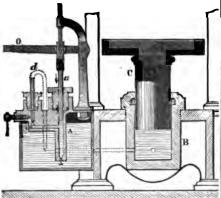
Fig. 1344.

Fig. 1344.

to bear upon each portion of the surface of P equal to that of p. The whole upward pressure on P will these 30 times the downward pressure on p. If the surface of P had been 60 times that of p, one pound of the latter would have balanced 60 on the former; and so on. Advantage is taken of this fact in the construction of the Hydrostatic Press [Fig. 1345). The two cylinders A and B are connected by the pipe d. The piston a, in the small cylinder A, is worked by the handle 0, and forces water into the large cylinder B, where it presses up the piston C. If the end of the piston E is 1,000 times as large as that of the piston a, a pressure of 2 pounds on a would exert a pressure of 2000 pounds, or one ton, upon C. If a man in working the handle 0 forces down the piston a with a pressure of 50 pounds, he would bring to bear upon C a pressure of 25 tons. This pressure is used for pressing cotton, hay, cloth, &c., into bales, for extracting oil from seeds, testing cannon, boilers, &c., and for raising ships out of the water.

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Hydrestat'ics, s. The science which treats of the mechanical properties of fluids; strictly speaking, the weight and equilibrium of fluids. The weight and equilibrium of fluids at rest are the objects of this science.



The the equilibrium is destroyed, motion ensures; and the scheece which considers the laws of fluids in motion and pressure of liquids is deduced from the following fundamental saw: "When a liquid mass is in qualiform, and pressure of liquids is deduced from the following fundamental saw: "When a liquid mass is in qualiform, and pressure of liquids is deduced from the following fundamental saw: "When a liquid mass is in qualiform, and pressure of liquids is deduced from the following fundamental saw: "When a liquid mass is in qualiform, and pressure of liquids is deduced from the following fundamental saw in the same of th

and buoyancy with respect to a certain point called the metacentre, which latter may be defined as the point in which the line joining the centre of gravity with the centre of buoyancy, in the position of equilibrium, is intersected by the vertical through the centre of buoyancy corresponding to a slightly altered position of the body. The metacentre may in all cases be determined from the form and density of the body, and the equilibrium will be stable, neutral, or unstable, as it falls above, upon, or below the centre of gravity.

Hydrosul/phate, Hydrosul/Phurr, n. (Chem.) A compound of hydrosulphuric acid or sulphuretted hydrogen with a base.

Hydrosul/phate, n. (Chem.) A saline compound of hydrosulphurous acid with a base.

Hydrosul/phuretted a. Combined with sulphuretted hydrogen.

Hydrosulphuric Acid, Sulphuretted Hydrosun,

HYDR

elydrosus's parte, n. (Chem.) A same compound of hydrosun's phuretted a. Combined with sulphuretted daylogen.

Hydrosulphu'ric Acid, Sulphuretted Hydrosun's Sulphuric Acid, Hydrosun's many mineral waters, as, for example, those of Aix-la-Chapelle in Germany, Barèges in France, Abano in Italy, and Harrogate in England, and is evolved from fumaroles and volcances. It is formed spontaneously wherever sulphurous organic matters are undergoing putrefaction, as, for instance, in stagnant sewers and cosapools, and in waters charged with organic matter and sulphates, especially sulphate of lime. There are several ways of preparing this gas, which is very extensively used in laboratory operations. The following is that which is most commonly employed. Sulphide (the old sulphuret) of iron, in small fragments, is placed in a bottle, and dilute sulphuric acid is added. Water is decomposed, its hydrogen combining with the sulphure of the sulphide to form hydrosulphuric acid, which escapes as a gas, while its oxygen enters into combination with the iron, forming oxide of iron (FeO), which unites with the sulphuric acid to form the ordinary protosulphate of iron or green vitriol, which remains in solution. Hydrosulphuric acid is a colorless gas of a strong and very nauseous odor, resembling that of rotten eggs. It consists of two volumes of hydrogen, and one volume of sulphur vapor condensed into two volumes, which form its combining measure. It is about seventeen times heavier than hydrogen. By pressure, it is liquefied, and by the additional application of cold, it may be obtained in the solid form (see Gases). Water dissolves, at 59°, 3°23 volumes of this gas, but the solution soon becomes milky when exposed to the air, in consequence of the oxygen of the air combining with the hydrogen of the gas, and sulphur being precipitated. It is highly combustible, and burns with a pale-blue flame, producing water and sulphurous acid, and, generally, a deposit of sulphur. It has a weak acid reaction, and forms one of the hydracids.

mineral found in most zinc mines. It occurs in incrustations or as stalactives at the Dolores Mines, prov. of Santander, Spain, and at Friedensville, Pa., Marion co., Arkansas, and Linden, Wis. H: is an hydrocarbonate of zinc, containing carbonic acid 13-6, oxide of zinc 75-3, water 11-1. Sp. gr. 358. It may be formed artificially by decomposing hot solutions of salts of zinc by carbonates of the alkalies. The white coating that forms on zinc, when moistened and exposed to the air, has nearly the same composition.

on zinc, when moistened and exposed to the air, has nearly the same composition.

Hydroxo's, n, pl. [Gr. hador, water, soos, animal.]

(Zoöl.) In some classifications, a group of zoöphites almost corresponding to the Hydroide of Agassis.

Hy'druret, n. (Zoöl. and Astron.) See Hydra.

Hy'drus, n. (Zoöl. and Astron.) See Hydra.

Hy'erms, n. [Lat.] Winter.

Hy'erms, n. [Lat.] Winter.

Hy'erms, n. (Zoöl.) See Hydra.

Hyères, a small town of France, dep. Var, 3 m. from the Mediterranean, and 8 m. E. of Toulon. It is celebrated for the beauty of the situation and the mildness of the climate, and is therefore much resorted to by foreigners suffering from consumption or nervous comof the climate, and is therefore much resorted to by foreigners suffering from consumption or nervous complaints. Near the coast lie the lies d'Hières, called by the ancients the Sixchades, which, with the exception of the military garrisons of a few forts, are uninhabited. Here the heat of the climate is tempered by the seabreveze, and the season seems an eternal spring.

Hye'tograph, n. [Gr. hydos, rain, and grapho, I sketch.] A graphic representation of the average distribution of rain over the surface of the earth.

Hyetograph'te, a. Applied to maps in which the

nauch.] A graphic representation of the average distribution of rain over the surface of the earth.

Hyetograph'ie, a. Applied to maps in which the distribution and quantity of rain, prevalence of rainy days. &c., in different places, is marked.

Hyetom'eter, n. (Gr. hyetos, rain, and metron, measure.) A pluriometer.

Hygeta, Hygtela, (hijë'ya.) n. [Gr. hygicia, health.] (Myth.) The Greek goddees of health, daughter or wife of Asklepios (Æsculaplus).

Her statues (of which the most celebrated was at Sicyon) sometimes represented her with a large serpent coiled round her body, and elevating its head above her arm to drink of a cup which she held in her hand. Isis, in Egyptian monuments, appears sometimes in a similar sometimes in a similar

pears sometimes in a similar attitude.

Hygelam, (hi-je'an,) a. [Gr. hygicia, health, from hygics, sound, health; probably akin to Sansk. urt, to be strong ] Relating to health, or to the art or science of preserving health.

Hygleme, (hy'geen,) n. [Fr. hygiene, from Gr. hygicia, health.] (Med.) That part of the science whose object is the preservation of health.

of the science whose object is the preservation of health. It embraces a knowledge of healthy man, both in society and individually, as well as of the objects used and em-ployed by him, with their influence on his constitution and organs.



Fig. 1346.—HYGRIA.

Hygien'ie, a. Relating to hygiene; preserving health. Hygien'ies, n. pl. The art of preserving health; hy-

Hygien'ic, a. Relating to hygiene; preserving health. Hygien'ice, s. pl. The art of preserving health; hygiene. (a.)

Hygienist, s. Die versed in that branch of medicine called hygiene.

Hygienist, s. One versed in that branch of medicine called hygiene.

Hygiol'egy, s. [Gr. hygieia, health, and logos, a discourse.] A treatise on the preservation of health.—

Hygroleik, s. See Hygiola, health, and logos, a discourse.] A treatise on the preservation of health.—

Hygroleik, s. See Hygiola, and logos, a discourse.] A treatise on the preservation of health.—

Hygroleik, s. See Hygiola, An instrument for recording automatically the variations of the humidity of the atmosphere.

Hygrolegy, s. [Gr. hygros, moist, and logos.] (Med.)

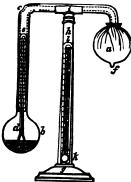
The doctrine of the humors or fluids of the body.

Hygrolmae, s. (Med.) A tumor containing serum and other not purulent fluids.

Hygrolmae, s. (Med.) A tumor containing the amount of aqueous vapor present in the atmosphere or other sëriform fluid under examination. Beveral varieties of apparatus have been invented for this purpose. Any alterations in the state of the atmosphere, with respect to moisture or dryness, are manifested by different phenomena. The various forms of H. are thus very great; but they can generally be divided into two distinct classes,—those which depend upon absorption, and those which depend upon condensation. A great number of substances in nature absorb moisture in a greater or less degree, and consequently undergo some change, either in regard to their physical qualities, their size, or their weight. Animal fibre is elongated, on account of being softened or relaxed; while vegetable fibre is shortened, on account of its swelling. Moisture is imbibed with avidity by many mineral substances, which gain weight by that means. Many of the H. which depend upon this alteration of dimension

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thirds filled with ether, is heated over a lamp till the fluid boils, and the vapor issues from the capillary tube, f, which terminates the ball a. The vapor having ex-pelled the airfrom both balls, the ca-



pelied the airfrom both balls, the capillary tube is hermetically closed by the flame of a lamp. The other ball, a, is now to be covered with a piece of muslin. The stand, g, h, is of brass, and the transverse socket, t, is made to hold the glass tube in the manner of a spring, allowing it to turn and be taken out with little difficulty. A small thermometer, k, t, is inserted into the pillar of the stand. The manner of using the instrument is this:—After having driven all the either into the ball b, by the heat of the hand, it is to be placed at an open window or out of doors, with the ball b so situated that the surface of the liquid may be on a level with the eye of the observer. A little ether is then to be dropped on the covered ball. Evaporation immediately takes place, which, producing cold upon the ball a, causes a rapid and continuous condensation of the ethereal vapor in the interior of the instrument. The consequent evaporation from the included ether produces a depression of temperature in the ball b, the degree of which is measured by the thermometer, d.e. This action is almost instantaneous, and the thermometer begins to fall in two seconds after the ether has been dropped. A depression of 30° or 40° is easily produced, and the ether is sometimes observed to boll, and the thermometer to be driven below zero of Fahrenheit's scale. The artificial cold thus produced causes a condensation of the stmospheric of 30° or 40° is easily produced, and the other is sometimes observed to boll, and the thermometer to be driven below zero of Fahrenheit's scale. The artificial cold thus produced causes a condensation of the atmospheric vapor upon the ball b, which first makes its appearance in a thin ring of dew coincident with the surface of the other. The degree at which this takes place must be carefully noted. In very damp or windy weather the ether should be very slowly dropped upon the ball, otherwise the descent of the thermometer will be so rapid as to render it extremely difficult to be certain of the degree. In dry weather, on the contrary, the ball requires to be well wetted more than once, to produce the requisite degree of cold.—The H invented by Mason consists of two thermometers placed side by side, one having a dry bulb and the other a bulb covered with muslin, kept moist by means of a string dipping in water. The wet bulb is chilled by the evaporation of the water from it, since this evaporation renders some of its heat latent. The drier the air, the more rapid the evaporation, and the greater the difference between the readings of the two thermometers.—The Edoon's Hygrodeik is an improved form of Mason's H. It differs from all other H in having a dial and pointer, showing at a glance the temperature, the degree of humidity, the absolute amount of vapor in each cubic foot of air, and the dew-point.

the absolute amount of vapor in each cubic foot of air, and the dew-point.

Hygromet'ric, or Hygromet'rical, a. Pertaining to hygrometry: made by or according to the hygrometr.—This term is commonly applied to substances which readily become moist and dry with corresponding changes in the state of the atmosphere, or which readily absorb and retain moisture. Seaweed, several saline substances, porous clays, potash and its carbonate, chloride of calcium, sulphuric acid, are in this sense of the term said to be hygrometric.

Hygrom'etry, n. [Fr. hygrometric.] The art of measuring the moisture of the air; the science which relates to the determination of the humidity of bodies, especially of the moisture of the atmosphere, including also the theory of the instruments employed. See Hygrometric.

GROMETER.

ORDETER.

Hy'groscope, n. [Gr. hygras, moist, and skopeō, to view.] An instrument for indicating the presence of moisture in the atmosphere, without measuring the amount.

Hygroscopie, a. Pertaining to the hygroscope; having the property of readily imbibling moisture from the atmosphere.

Hygroscopie'ity, n. [Gr. hygron, moisture, and skopeo, to observe.] (Bot.) The property by which regetable tissues absorb or discharge moisture, according to circumstances.

extended down the back, and formed a serrated dermal creet.

Hyllus. (Myth.) Son of Hercules and Dejanira, who became, after the death of his father, the chief of the Heracidies, and married Iole. Driven from the Peloponnesus by Enrystheus, he took refuge with the Athenians and was subsequently the leader of the Heracidies against Eurystheus, whom he killed about 1207 s. c. He afterwards perished in a combat with Echemus, king of Arcadis.

Hylobate. s. [From Gr. hule, a wood, and baino, to walk.] The long-armed gibbon.—See Gibbon.

Hylodes, n. (2001.) See Hyloba.

Hylodes, n. (2001.) The Tree-toads, a family of Batrachian, comprising frogs which have the extremities of the toes and fingers enlarged into a disc or viscous pellet, by means of which they sustain themselviscon the sides of trees, branches, leaves, and all kinds of smooth surfaces. They inhabit trees, strube, or plants, except in the breeding season, when they resort to the water. The genus Hyla comprises Tree-frogs or Treetoads. The Treetoad, H. verticior, of the Northern and Middle States, is two inches long, flattened, warty above, color varying from palest ash to dark-brown, with several large irregular blotches of brown. The



Fig. 1848. — THE TREE-TOAD, (H. versicolor.)

under surface is mainly white, granulated. It is very noisy towards evening and in cloudy weather, or before a rain. In the latter part of spring or early summer, it resorts to the pools to lay its eggs. The genus Hydes comprises the Cricket-frogs. The Savannah cricket, H. gryllus, of the Atlantic and Gulf coast, is one and a half inches long, cinereous above, vertebral line green or red, and the sides with three oblong black spots, edged with white; under parts silver-white. It is found on the leaves of aquatic plants, is very agile, and makes long leaps to secure insects, which constitute its food. It is coustantly chirping like a cricket, is easily domesticated, and sings merrily even in confinement. Pickering's Hylodes, H. Pickeringii, of New England and the Middle States, is less than one inch long, body yellowish-brown, with small, dusky, rhomboldal spots, and lines of the same color, sometimes arranged in the form of a cross.

Hy'loist, n. [Gr. hule, matter.] One who believes that matter is God; materialism; pantheism.

Hylop'athism, n. [Gr. hule, and pathos, feeling.] See
HYLOSOISM.

Hylozoism, n. [Gr. hule, and thees, God.] Same as Hylozof, q. v.

Hylozof, q. v.

Hylozof, a. Belonging to hylozoism.

—n. One who holds all matter to be animated.

Hylozofism, n. [Gr. hule, matter, and see, life.] (Phy.)

In the strict sense of the word, the doctrine that matter the live of the strict sense of the word, the doctrine that matter live of the strict sense of the word, the doctrine that matter live of the strict sense of the word, the doctrine that matter live of the strict sense of the word, the doctrine that matter live of the strict sense of the word, the doctrine that matter live of the strict sense of the word, the doctrine that matter live of the strict sense of the word, the doctrine that matter live of the strict sense of the word, the doctrine that matter live of the strict sense of the word, the doctrine that matter live of the strict sense of the word, the doctrine that matter live of the strict sense of the word, the doctrine that matter live of the strict sense of the word, the doctrine that matter live of the strict sense of the word, the doctrine that matter live of the strict sense of the word, the doctrine that matter live of the strict sense of the word, the doctrine that matter live of the strict sense of the word, the doctrine that matter live of the strict sense of the word, the doctrine that matter live of the strict sense of the word, the strict sense of the strict sense of the word, the strict sense of th

In the strict sense of the word, the doctrine that matter lives. Some writers have confined this name to the tenet of the anima mundi, or soul of the world; others, to the theory of a peculiar life residing in the whole of nature, approaching, therefore, in this sense, to pantheism. This life is either merely organic or actually sentent; the latter notion has been also called hylopathism.

Hy'smem, n. [Gr., Lat., & Fr.] (Myth.) The Greek god of marriage, was son of Bacchus and Venus. or, according to another version, of Apollo and one of the Muses. The people of Athens instituted festivals in his honor, and solemnly invoked him at their nuptials, as the Latins did their Thalassius. H. was generally represented as crowned with flowers, holding a burning torch in one hand, and in the other a vest of a purple color. It was supposed that he always attended at nuptials; for, otherwise, matrimonial connections were fatal, and ended in supposed that he always attended at inpitials; for, otherwise, matrimonial connections were fatal, and ended in dreadful calamities; hence people ran about on these occasions, calling aloud, Hymen! Hymen! (Anat.) The semilunar, parabolic, or circular membrane situated at the outer orifice of the vagina in

(Bot.) A skin enclosing the bud of a flower.

or weight are known by the names of their inventors; as, De Luc's, De Saussure's, Daniell's, &c. De Luc employed a thin slip of whalebone, the contractions of which indicated the variations of the moisture. De Saussure employed a human hair, by means of which he constructed a far more delicate instrument; but, unfortunately, it was exceedingly liable to derangement; and the having a bore about one-fourth of an inch. The most perfect. It consists (Fig. 1347) of two thin balls of 1½ inch diameter, a and b, connected together by a tube having a bore about one-fourth of an inch. The same of the ball b, and the arm, b c, contains a ment and some of the ball b, of the ball b. This ball, having been about two-discovered in the beath of his father, the chief of the Herselides, and army of very large, thin, angular spines extended down the back, and formed a servated dermal creek.

Hyllus. (Myth.) Son of Hercules and Dejanira, who became, after the death of his father, the chief of the Herselides, and married Iole. Driven from the Polonomesus by Eurystheus, he took refuge with the herselides, and married Iole. Driven from the Polonomesus by Eurystheus, he took refuge with the herselides and Hyllus the least of the Harselides, and survey.

Hyllus. (Myth.) Son of Hercules and Dejanira, who became, after the death of his father, the chief of the Herselides, and married Iole. Driven from the Polonomesus by Eurystheus, he took refuge with the header of the Harselides, and married Iole. Driven from the Polonomesus by Eurystheus, he took refuge with the header of the Harselides, and married Iole. Driven from the Polonomesus by Eurystheus, he took refuge with the header of the Harselides, and married Iole. Driven from the Polonomesus by Eurystheus, he took refuge with the header of the Harselides, and married Iole. Driven from the Polonomesus by Eurystheus, he took refuge with the header of the Harselides. Hyllus and the strength of the Harselides, and married Iole. Driven from the Polonomesus by Eurystheus, he took refuge with

tion of a marriage.

—a. Belonging or relating to marriage.

Hymnene'sn, n. Same as Hymnell. (n.)

Hymnenem'ycetes, Agancagn, n. pl. (Bot.) As order or division of the alliance Pangales, distinguished by having spores generally quaternate on distinct sporophores; hymneneum naked.

order or division of the alliance \*\*Assignization distinct by having spores generally quaternate on distinct sporophores; hymeneum naked.

Hymenoptera, (hi-men-opte-ra.) n. [Gr. hymen, a membrane; pteron, a wing.] (Entom.) One of the orders into which insects are divided. They are characterized by possessing four membranous wings, of which the aaterior pair are the larger, and they cross horizontally over the body when in a state of repose. Of all the orders into which insects are separated, the \*H. contains the largest number remarkable for development of instinctive powers and social qualities. The females are provided with an ovipositor, consisting chiefly of three elongated slender processes, of which two serves as a sheath to the third. This ovipositor, in many species, is so organized that with it they are not only able to perforate the substance in which they deposit their eggs, but in many cases it serves as a weapon of defence, and is the part which, in bees and wasps, is called the sting. With this weapon, which is barbed at the apex, they are able to kill their enemies, or render them torpid or powerless. The antenues are generally fillform setaceous. The measthorax and the metathorax are well developed; the protothorax is narrow. Hymenopterous insects are remarkable for the great development of the adrial trachese, which in many species are placed in their abdomen, in pouches, and are very large in comparison with the size of the insects. They undergo what is termed incomplete metamorphosis; and in the greater number the larves are soft, whitish-colored, and destitute of feet. In the imago, or perfect state, most hymenopterous insects live upon flowers, or at least often frequent them; some for the purpose of gathering honey, and others to find a safe retreat from whence they can attack their prey. The best-known families of the H. are the bees, the weaps, and the cast. Hymenop'teram, a. (Zool.) One of the Hymenop'teram, a. (Zool.) One of the Hymenop'teram, a. (Zool.) One of the Hymenop'teram, and t

Hymenop'teram, n. (Zoll.) One of the Hymenoptera, q.v.

Hymnet'tus. (Anc. Geog.) A mountain-range in Attica, situated to the S.E. of Athens, and famous among the ancients for its honey and marble. It is composed of two summits, the N., or greater H., 3,506 feet above sea, now called Telo-Vuni; and the S., or leaser H., denominated Anhydrus ("the Waterlees") by the ancients, and now called Marro-Vuni.

Hymn, (him.) n. [Lat. hymnus; Gr. hymnos; probably from the same root as hydeo, to celebrate; allied to acido, to sing.] An ode in praise of the Deity, or some divine personage.

acido, to sing.] An ode in praise of the Deity, or some divine personage.

-v. a. To praise in song; to worship by singing hymns; to sing; to celebrate in song.

-v. n. To sing in praise or adoration.

Hymranel, n. A hymn.

Hymranel, a. Relating to hymns.

Hymranel, n. The singing of hymns.

Hymnographer, Hymmol'ogist, n. A writer of hymns.

Hymnographer, Hymmody, n. A collection of Hymnol'ogy, Hym'mody, n. A collection of

Hymnol'ogy, Hym'mody, n. A collection of hymns.

Hymds'ville, in New York, a post-village of Schobaris co., abt. 45 m. W. of Albany.

Hyochol'ic Acid, n. Same as GLYCO-HYCCROLALIC, q.z.

Hy'oid Bone, n. [Gr. hyoides.] (Anat.) A bone situated between the root of the tongue and the larynx is called the shyoides, or hyoid bone, frum its supposed resemblance in shape to the letter v or ypsilon.

Hyoscya'mia, n. (Chen.) See Hyoscyanus.

Hyoscya'mia, n. (Gr. huoskuamos] Henbane, a gm. of plants, order Shlancex. The common henbane, H. niger (Fig. 1349), is an European plant, growing on waste grounds, banks, and commons. It is glandular and viscid, and exhales a peculiar odor, which is fostid and powerful. It blossoms in June or July, the flowers being of a pale straw-color, beautifully pencilled with purple veins. The fruit is the peculiar modification of the capsule termed a pyzis, from its opening transversely, by a lid, like a pill-box. The whole herb possesses nax-cotic properties, and has been employed medicinally from the earliest times as a narcotic, anodyna, and soporific. It is sometimes used by oculists in place of bellation as to dilate the pupil. When swallowed in sufficient quantity, it is stated to cause loss of speech, disturbance of vision, distortion of the face, coma, delirium, phantasma, and paralysis. No antidote is known.

alkaloid hyoscyamia. Two varieties of henbane are commonly cultivated,—the annual and the biennial, the latter being generally regarded as the most active in its properties. The leaves are only used in regular practice; they are given internally in the form of pow-



Fig. 1349. iv. — The Henbane, (*H. nige*r.)

der, or in extract or tincture, and applied externally in fomentations or cataplasms. The fumes of the seeds,

fomentations or cataplasma. The fumes of the seeds, heated in the bowl of a tobacco-pipe, were formerly inhaled to silay toothache.

Hyp., r.a. [Contracted from hypochondriac] To make melancholy; to dispirit; to hip.

—a. Depression of spirits; melancholy. —See Hip.

Hypse'chrail.a. (Anc. Arch.) Open above. In temples of this description the cella was in part exposed to the sir; they had a double range of columns within the cella, dividing it into three size, or asises. The size on either side were roofed, but that in the middle had no covering.

covering.

Hypal'lage, n. [Gr., from hypallasso, I change.]
(Gram. and Rhet.) A species of inversion, in which not
only the natural or customary succession of words is
changed, but the sense presents a species of transposition, in which predicates are transferred from their
proper subjects to another.

Hypan'thium, Hypantho'dium, n. [Gr. hypo,
and anthos, a flower.] (Bot.) A fleshy receptacle not
inclosed in an involucre.

Hypar'gyrite, n. (Min.) Same as Miasovaria, q. v.

Hypatia, (hi-pai'sh-a.) an illustrious female, n. at
Alexandria between 370—380, was the daughter of Theon,
an eminent mathematician of Alexandria, whom she
succeeded in the government of that school, had a num-

an eminent mathematical of Alexandria, whom say succeeded in the government of that school, had a num-ber of disciples, and became very celebrated for her lectures on Plato and Aristotle, both at Alexandria and ber of disciples, and became very celebrated for helectures on Plato and Aristotle, both at Alexandria and Athens. Spresius in particular, who afterwards became a Christian bishop, celebrated her praises in the most glowing terms. Orestes, the governor of Alexandria, had a high respect for H., and frequently consulted her on matters of importance. Between the governor and the patriarch Cyril there was bitter enmity, which broke out into open war, and the monks siding with their chief, assembled in a rictons manner against Orestes, who was obliged to fly from the city. They then seized H., and having torn her in pieces, burnt her mangled limbs to ashes. She wrote a commentary on Diophantus, and other works, which have been lost. D. 415 a. D. Hyper., [Gr. hyper, over, beyond.] A Greek preposition, which is conjoined with other words in order to denote excess, or anything beyond, or over and above, the original quality of the word to which it is added. The term hypercriticism is an instance of the manner in which the preposition is applied, and the sense in which it is interpreted.

(Chem.) This prefix is still sometimes used to denote acids containing more oxygen than those to which the

it is interpreted.

(Ghem.) This prefix is still sometimes used to denote acids containing more oxygen than those to which the term per is prefixed.

Hyperwe'mila, n. [Gr. hyper, and aima, blood.] (Med.) Congestion of blood in any part.

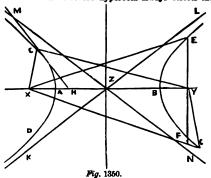
Hyperbat'ie, a. Trausposed; inverted.

Hyperbatom, n. (Gram.) A figure in writing by which the words are transposed from the plain gramtal ander.

which the words are transposed from the plain grammatical order.

Hyper solm, n. [Gr. hyper, above, and bole, from ballein, to throw.] (Math.) The name of one of the curves that are known as conic sections. (See Conic Sections.) It is formed by cutting the cone in a plane that passes through it in a direction parallel to its axis. Thus, in figure 932, appended to the article on the Elipse, 0 Q P and R T S are hyperbola formed by planes passing through the cone A B C, in directions parallel to its axis A Z. In figure 1350, C A D and E B F are two branches of a perfect hyperbola formed by the passage of a plane through a double cone, or rather through two cones, which, placed together, apex to apex, have a common axis, and their sides are inclined to the axis at the same angle. Z is the centre of the hyperbola, X Y its foci, and A B its principal axis, or axis major. The difference between the distances of any point in either branch of the hyperbola is always equal to the principal axis; thus X E — Y E = X O — Y G = Y C — X C = A B. The latus rectum of the hyperbola is

the straight line drawn through either of the foci at right angles to the axis, as E.F. The eccentricity is de-noted by a fraction, of which Z Y is the numerator and ZB the denominator. The tangent drawn to any point in the branches of the hyperbola always bisects the



angle made by the lines drawn from that point to the foci. The lines K L, M N, passing through the centre Z, are asymptotes to the curve.

### Trom Gr. Apperballo, I throw beyond, exceed.] (Rhet.) A figure by which expressions are used, which signify more than it is intended to represent to the hearer or reader. When expressions are made use of and assertions made which might be deemed incredible or heaven belief in order to indeed credibility. made use of and assertions made which might be deemed incredible or beyond belief, in order to induce credibility in some fact wanted to be proved, the argument may be said to be supported by hyperboles. As is well observed, exaggeration is but hyperbole applied to narrative, in order to produce a better impression than would be gained by plain facts alone.

Hyperbolide, or liversourch, a. [Gr. hyperbolikos; Yr. hyperbolique.] (Grom.) Belonging to the hyperbola.—(Rhd.) Relating to or containing hyperbole; exaggerating or diminishing beyond the fact; exceeding the truth.

Iyperbol'ically, adv. (Geom.) In the form of an

hyperbola. (Rhet.) With exaggeration; in a manner to express more or less than the truth.

Hyperbol'iform, a. Having the form of an hyperbola.

bola.

Hyperboliam, n. [Fr. hyperboliame.] The use of hyperbolical, n. One who hyperbolical.

Hyperboliat, n. One who hyperbolicas.

Hyperboliae, v. n. To speak with exaggeration.

Hyperbolide, n. (Geom.) A surface of the second order, which is cut by certain planes in hyperbolost.

Hyperboloid, n. (Geom.) A surface hyper, beyond, and b-reas, the north.] Northern; belonging to or inhabiting a region very far north; very cold; frigid.

—n. An inhabitant of the most northern region of the earth The ancients called H. all the unknown peoples of the West and North. The Greeks imagined the country north of the Rhipman (generally supposed to be the Ural) Mountains to be inhabited by the H., and their residence was gradually referred to more distant country north of the Knipsean (generally supposed to be the Ural) Mountains to be inhabited by the H, and their residence was gradually referred to more distant regions; but it was universally supposed that, as the fovorites of Apollo, they enjoyed a terrestrial paradise, a bright sky, and a perpetual spring, a fruitful land, and everlasting youth and health.

Hypercatalectie, a. (Pros.) Exceeding the measure; applied to verses having one or two syllables too many at the end.

Hypercatalaris, n. [Gr. hyper, in excess, and catharis, purging.] (Med.) An excessive purging from medicines.

Hypercritis, n. [Gr. hyper, above, and krisso, to separate.] (Med.) A critical excretion above measure; as when a fever terminates in a looseness, the humors may flow off faster than the strength can bear, and therefore it is to be checked.

Hypercritie, n. [Fr. hypercritique; Gr. hyper, and kritikos, critical. See Cauto.] One who is critical beyond measure or reason; an over-rigid critic; a captious censor.

youd measure or reason; an over-rigid critic; a captious censor.

Hypercritic, or Hypercritical, a. Over-critical; critical beyond use or reason; excessively nice or exact.

Hypercritically, adr. In an hypercritical manner.

Hypercriticisme, v. a. To criticise unreasonably.

Hypercriticisms, s. [Gr. hyper, and kritikos, critical.] The art of viewing the works of an author in an ungenerous spirit, exaggerating minor defects, and overlooking or undervaluing such merits or beauties as might fairly be considered to outweigh the former.

Hyperiam. (Myth.) A son of Uranus (Heaven) and Gea (Barth), and the father, by his sister Theia, of Helios (the Sun), Selèné (the Moon), and Eos (the Morning). But in the Homeric poems the word is a mere synonym for Helios, and the two names more commonly occur together. From the length of the penultimate syllable, the word is generally regarded as a contraction of Hyperionides.

(Astron.) One of the satellites of Saturn.

afterwards reconciled, and met their tragic fate about the same time, H. being seized in the temple of Ceres, and delivered up to Antipater, who caused him to be put to death, s. c. 322.

Hyperica'eces, s. pl. (Bot.) The St. John's Wort family, an order of plants, alliance Guttiferales.—Diag. Oblique clandulary results.

ance Guttiferules.—Diao. Oblique glandular petals, numerous naked seeds, and large, distinct styles. They are herbs, shrubs, and trees, with leaves usually opposite, simple, exstipulate; flowers regular, sepals and petals hypogynous, with a quaternery or quinary distribution; the former with an imburicated settingstion. former with an imbricated meti-vation, the later unequal-sided, commonly marked with black glands, and having a contorted sestivation; stanens hypogyn-ous, usually numerous and po-lydelphous; anthers 2-celled, opening longitudinally; styles several, long; fruit 1-celled, or 3-5-celled. There are 16 generally distributed over the globe. They have commonly a resinous yel-low inter which is freeneptly



distributed over the globe. They have commonly a resinous yellow juice, which is frequently purgative, as in the species of lismia. Some have tonic and astringent properties, as Hyper-ticum priforatum and Androssmum afficinale; and some again have diuretic properties, as Cratazylon Harnschuchia. Many of the 8t. John's worts are cultivated in shrubberies.

in shrubberies.

Hyper'meter, n. [Gr. hyper, beyond, and metron, a measure] Anything that exceeds in measure the proper standard, as an hypercatalectic verse.

Hypermet'rical, a. That exceeds the common measure, or has a redundant syllable.

Hypermetro'pia, n. [Gr. hyper, over, metron, measure, ops., the eye.] An affection of the eye in which the chief symptom is the removal of the far point from the positive infinity, into a negative distance, and a consequent inability of the eye to unite convergent rays into distinct images on the retina.

Hypermentical. (hi-permentical.) one of the fifty

distinct images on the retims.

Hypermmentra, (hipermmen'trd.) one of the fifty daughters of Danaus, who spared the life of her husband Lyncous, whome her lather ordered her to murder the first night of their marriage. Her father summoned her to appear before a tribunal for her disobedience, but the people acquitted her, and Danaus was afterwards reconciled to her and her husband.

Hypermyriara'ma, n. [Gr. hyper, beyond, myrios, numberless, and orama, a view.] An exhibition having innumerable views.

innumberiess, and orama, a view.] An exhibition having innumerable views.

Hyper-or'thedoxy, n. Extreme orthodoxy.

Hyperox'ide, Hyperox'id, n. An oxide in which the oxygen is in the greater proportion.

Hyperoxygenated, Hyperoxy'genized, a. Having an excess of oxygen.

Hyperoxymuriat'ie, a. [From Gr. hyper.] The same as Chloride, n. [Gr. hyper, beyond, and sarkos, fiesh.] (Mdd.) Proud fiesh.

Hyperstheme, n. [Gr. hyper, over, and sthenos, strength,—so called from its toughness.] (Min.) Called also Labrador Hornblende. It is a ferro-silicate of magnesia with a little alumina and lime. Color, dark-brown or greenish-black. Some specimens of a reddish color are cut and polished for jewelry. Found at Isle Saint Paul, Labrador, in Canada, Greenland, and many places in Europe. When associated with Labradorite it forms a dark granite-like rock called Hyperite. a dark granite-like rock called Hyperite.

Lyperathen'ie, a. Containing, or consisting of,

hypersthene.

Hyperstheme.

Hypertroph'ie., Hypertroph'ical, a. (Med.)

Relating to hypertrophy.

Hypertrophyed, a. Enlarged by excess of nutrition.

Hypertrophyed, an enlargement in the tissues of an organ or part; a diseased condition of the structure, which sometimes totally destroys the functions of the organs. The heart and liver are the parts most frequently subject to this organic disease. — See Heart, Liven.

Hyphem, n. [Gr. hyphen, together with.] A mark, or short line, written thus (-), and placed between 2 words in order to show that they are connected together, and form a compound word: as proccupied, four-leaved. In writing and printing, the hyphen is used to connect syllables of a divided word, and is placed after the syllable that closes a line, denting the connections between that syllable, or part of a word, with the first syllable in the next line.

Hyphomye'etees. Botryta'eeee, n. (Bot.) An

syllable in the next line.

Hyphomye'etes. Botryta'eese, n. (Bol.) An order or section of the alliance Pangales, distinguished by having spores naked, often septate; thallus floccose. Hyphomes. n. (Bol.) A genus of trees, order Palmace. H. thebaica is the Daum-palm of Egypt, sometimes known as the gingerbread-tree, from the resemblance of the pericarp of its fruit to gingerbread. Unlike most of the palms, this has a stem forked abovo. The main stem, instead of developing a single terminal bud, develops two other buds at its apex in like manner, and this mode of growth is continued with the successive branches. of Hyperionion, and equivateur to the parameter of Hyperionides.

(Astron.) One of the satellites of Saturn.

Hyper'icum, n. (Bot.) The typical genus of the order Hypercate. (Bot.) The typical genus of the palms, this has a stem formed now the most of developing a single terminal bud, develope two other buds at its apex in like manner, and the mode of growth is continued with the successive branches.

Hyper'idea, an Athenian orator, was a disciple of Plato and Isocrates, and the contemporary of Demosthera, against whom he brought that accusation of the palms, this has a stem formed now to the palms, the pa

Hypnot'ie, a. That causes or promotes sleep; soporific.

—a. A medicine which induces sleep.

Hypnotisma, a. [Gr. hypnot, sleep.] (Psychol.) A term now used to usecribe the scientific aspect of a series of phenomena which have been known in history from 1842 as Braidism (from Dr. James Braid, of Manchester), Mesmerism (from Mesmer, 1766), animal magnetism, second sight, &c. Within the last thirty years the facts in this department of obscure and somewhat ghostly appearance have been adequately investigated, with the result that there is now a new department of psychology and a new method of investigating the activities of the mind.

The facts of hypnotism—understanding the word to cover all the so-called sciences known by the names mentioned above—may be briefly thrown together. Any normal person may be thrown into apeculiar trancelike condition of body and mind by the steady concentration of the attention for a greater or lesser period of time upon a single object. This is usually best accomplished by the agency of another person who takes the rôle of hypnotizer. This second person has no unusual power, however; he is only the instrument of holding the subject's attention and convincing him that the experiment is going to succeed. Any artificial show of mystery—such as passes, incantations, &c.—is of holding the subject's attention and convincing him that the experiment is going to succeed. Any artificial show of mystery—such as passes, incantations, &c.—is quite without value, except as it impresses the subject's mind and leads him to concentrate himself and believe in the reality of the expected result. That this is true is shown by the not unusual case of a person's hypnotizing himself (so-called Auto-suggestion).

The condition into which the hypnotized patient falls varies all the way from complete lethargy to catalepsy on the one hand, and somnambulism on the other. The condition called somnambulism is that to which the rinciple interest from a psychological point of ylew.

condition called sommambulism is that to which the principle interest, from a psychological point of view, attaches. The patient is, to all appearances, awake and normal. He is really, however, in a condition which is called one of high suggestibility. It involves several very interesting features. First, his memory is now gone for the events of his normal waking life, which it still holds, however, for successive periods of the hyp-notic condition. He is further found to have no memory, after he returns to his normal consciousness, of the notic condition. He is further found to have no memory, after he returns to his normal consciousness, of the events which he experienced while in the hypnotic condition. Again, his senses are enormously acute while in the hypnotic sleep. He can hear, see, feel, &c., stimulations which escape our ordinary exercise of these senses altogether; and, finally, he takes all suggestions which come to him from the hypnotizer for realities, and acts implicitly upon them. This last fact is the which come to him from the hypnotizer for realities, and acts implicitly upon them. This last fact is the most remarkable of all; and it gives a means of experimenting directly with the patient when in this condition, since the hypnotizer can arrange beforehand the suggestions which he wishes to give, and have them bear upon certain definite psychological questions. Finally, among the bearings which this fact of "suggestibility" discloses, the following may be men tioned: First, it is possible to make suggestions which take effect upon the psylological functions of the body.

tioned: First, it is possible to make suggestions which take effect upon the physiological functions of the body. In this way certain functional troubles, especially those of a nervous sort—such as headache, cricks, toothache, heumatisms, nervous shocks, drunkenness, sexual troubles, &c.—are cared by hypnotic suggestions. Again, it has been shown possible to exert a certain bermanent mental or moral influence upon a patient by this form of suggestion. It is particularly remarkable to find that suggestions can be given which the patient is charged to carry out only after he has returned to his normal state again—sometimes after months. At the arrival of the time he performs these suggestions as he was told, even to the most minute details and to the day and hour; this is called "deferred suggestion."

suggestion. suggestion."

The theory of hypnotism now generally accepted is that it is merely an exaggerated case of our normal tendency to take suggestions—to do as we are told—which we all show in our lives. This tendency is made which we all show in our lives. This tendency is made abnormally great by a certain paralysis of the attention induced by its long concentration, so that the processes of deliberation and judgment are temporarily checked. All suggestions so come to have the value of realities to the patient, and he acts upon whatever idea the hypnotizer succeeds in putting into his mind. It is probable that crimes may be suggested; but experiments show that this depends greatly upon the character of the patient, each having his limit fixed in the sentiments and moral habits of his life.

Literary references: Moll. Hypnotism; James, Principles of Psychology; Baldwin, Menial Development, chap. vi., and Hypnotism in Johnson's Cyclopedia, new edition.

edition.

edition.

Hyp'motize, v. a. To produce the hypnotized state; to place under hypnotic influence.

—(Collog.) To exert an undue influence over; to control by force of will; often used hunorously.

Hy'po-. [Gr., under.] (Chem.) A prefix indicating the presence of a smaller quantity of oxygen than that contained in the acid or compound to which it is prefixed. Thus, the hyposulphurous acid contains less oxygen than the sulphurous, and the hyposulphuric acid less oxygen than the sulphuric, and the hyposulrous acid

less oxygen than the suppuric, and the hyponurous dealess oxygen than the nitrous.

—n. [Contr. from hypochondriasis.] Depression of spirits (Colloq.)—See Hyp.

Hypocaust, n. (Antiq.) A form of furnace used by the Romans for the purpose of heating baths and apart.

Hypochom'dria, n. [Fr. hypocondrie, from Gr. hypochondria—hypo, under, and chondros, a cartilage.] (Puth.) See Hypochondriasis.

(Anat.) Same as HYPOCHONDER, q. v.

Hypochom'driae, a. [Ur. hypochondriakes.] Pertaining to hypochondria or hypochondriais; affected by a disease attended with debility, depression of spirita, or melancholy; producing melancholy or low spirita.

—n. A person affected with debility, lowness of spirita, or melancholy.

—N. A person anected with debility, lowers of spirits, or melancholy.
Hypochondris's melancholy; dispirited; dispordered in imagination.
Hypochondrisacally, adv. In an hypochondriscal

Hypochondri'acism, n. A fit of hypochondria hypochondriasis

Hypochomdri'acism, n. A fit of hypochondria; hypochomdria's.

Hypochomdri'asis, n. (Mcd.) A disease characterized by extreme sensibility of the nervous system, leading the patient to believe himself to be suffering from some terrible and imaginary disease, or to be much worse than he really is. The ideas of such persons often partake of the most extravagant character. He may fancy that he is immensely tall, or inordinately small; that he is heavy as lead, or light as a feather; that he is composed of glass, or is a lump of butter. They are all extremely timid, and their fears are exercised upon trifles, or are altogether groundless. They dwell constantly upon their own sufferings, and are usually moroee, peevish, suspicious, and misanthropic, and frequently suspect their nearest and dearest friends of designs upon their life. The causes of this disease are various, arising as it does usually from an impaired condition of the nervous system. Young men of studious habits are very apt to suffer fron this disease. Those too, who, from want of occupation and a due amount of exercise, acquire a luxurious habit, disease. Those too, who, from want of occupation and a due amount of exercise, acquire a luxurious habit, often fall a prey to it. The cure must of necessity vary somewhat according to the nature of the disease. In general, the great thing is, to withdraw the pattent's mind as much as possible from himself. For this purpose, cheerful society and change of scene should be adopted. The system ought to be strengthened by tonica, and exercise in the open air. If it arise from idleness and luxury, the great cure is plenty of active exercise and a spare diet. In all cases the state of the digestive organs should be attended to, and the bowels kept in a strictly normal condition.

Hypocras, n. See Hippocras.

Hypocras, n. See Hippocras.

Hypocrater'iform, a. [Gr. hypo, and krater, a cup.]

[Bot.] That form of a corolla, properly called solver-shaped, which consists in a cylindrical tube, which is larger than the flat spreading limb, as in the flowers of the genus Phlox.

larger than the flat spreading limb, as in the flowers of the genus Phios.

Hypocristy, n. [Fr. hypocrisis; Gr. hypokrisis. See Hypocrisis.] The playing a part in a figurative sense; a feigning or dissembling; simulation; a feigning to be what one is not, or dissimulation; a concealment of one's real character or motives; a counterfeiting of religion; deceifful appearance; false pretence.

Hypocrite, n. [Fr. hypocrite; Gr. hypokrites, from hupo, and krites, a decider, a judge, an umpire.] One who plays a part; one who feigns to be what he is not; one who assumes an appearance of piety and virtue when he is destitute of true religion; a dissembler; one who saumes a false appearance.

when he is destitute of true religion; a dissembler; one who assumes a false appearance.

Hypocritice, Hypocritical, a. [Gr. hypokriti-hau.] Simulating; counterfeiting a religious character; assuming a false and deceifful appearance; dissembling; concealing one's real character or motives; proceeding from hypocrity, or marking hypocrity.

Hypocritically, adv. With simulation; with false appearance of what is good; falsely: without sincerity.

Hypodermat'ouny, n. [Gr. hypo, derma, the skin, and tome, incision.] (Surp.) The section of subcutaneous parts, as of tendons and nuscles.

Hypodermate, a. That which is under the skin.

H. Medication. (Med.) The application of remedies—as morphia—under the skin.

Hypogreyous. Hypoder'ane, a. [Gr. hypo, and or, the

— as morphia — under the skin.

Hypogerous, Hypogeram. a. [Gr. hypo, and ge, the earth. [Oct.] Applied to all parts in plants which grow beneath the surface of the earth.

Hypogastral'gia., n. [Gr. hypogastrium, and algos, pain.] (Med.) Pain in the hypogastrium.

Hypogastrium, as the H. artery, which is the more internal of the two branches into which the primary like divides.

Hypogastrium, n. [Gr. hypo, and gaste: the stomach or belly.] (Anal.) The region of the abdomen that reaches from above the pulses to within three fingers' breadth of the navel.

Hypogastroeele. n. [Gr. hypo, gaster, and kele, a

breadth of the navel.

Hypogas'trecele, n. [Gr. hypo, gaster, and kele, a tumor.] (Med.) A hernia in the hypogastric region.

Hypogene, a. [Gr. hypo, under, and gennao, to produce.] (Geol.) A term sometimes applied to the Painarr Rocks, q.v.

Hypoge'um, n.; pl. Hyroga. [Lat.] A name applied in ancient architecture to all the under-ground parts of a building.

Hypoglos'sis, n. [Lat., from Gr. hypo, and glossus, the tongue.] (Anat) The under part of the tongue, which adheres to the jaw.

Hypoglos'sus, n. [Lat.] (Anat.) A nerve which goes to the under part of the tongue.

Hypoglos'sus, n. [Lat., from Gr. hypo, and gloutes, the breech.] (Anat.) The lower and projecting part of the nates.

the nates.

Hyp'ogym, n. [Gr. hypo, under, and gyne, a female. (Bot.) A plant which has its petals and stamens inserted under the pistil.

under the past. (hi-pojen-us.) n. [Gr. hypo, under;  $gu \cdot e_i$  female.] ( $Bu \cdot h$ . A term applied to the stamens when they are free from the calvx and pistil, and arise from the thalamus or torus below the latter organ; this

is the normal position of the stamens, and may be observed in the poppy and ranuaculus. The term is also applied to the corolla, when it arises from below the pistil, and free from the calyx.

Hypomi'tric Acid, Peroxide of Nitrogens, Persurate Oxide, a. (Chem.) When binoxide of nitrogen is mixed with oxygen or atmospheric air, red fames of hyponitric acid are formed. By heating thoroughly dry nitrate of lead in a retort, it evolves hyponitric acid may be condensed by amixture of salt and ice. The first portions do not solidify; but if cautious care be taken to avoid moisture, the latter portions form transparent, colorless prismatic crystals, if the temperature be kept below 40 Fahr. At 15-80 Fahr. it melts into a liquid, which, if the temperature is raised, gradually becomes yellow, and lastly orange, until it reaches 820 Fahr. when it bolls, the vapor being a dark-yellowish red, turning to black as the heat increases. Hyponitric acid was formerly supposed to give rise to the nitrites, and was thence called nitrous acid; but experiment has proved that, on being added to alkaline bases, it is decomposed, giving rise to nitrates and nitrites.

Hymomitseanna Acid. See Nitragus Acid.

being added to alkaline bases, it is decomposed, giving rise to nitrates and nitrites.

Hyponitrous Acid. See Nitrous Acid.

Hypophes, n. (Gr. hypophetes.) An interpreter. (n.)

Hypophes phate, n. (Chem.) A salt resulting from the combination of hypophosphoric acid with a base.

Hypophos phite, n. (Chem.) A compound of hypophosphorous acid and a base.

Hypophos phorous Acid. This acid may be formed by cantiously decomposing the hypophosphite.

phosphorous acid and a base.

Hypophose'phorous Acid. This acid may be formed by cautiously decomposing the hypophosphite of baryta with sulphuric acid, a solution of that salt being formed when phosphorus is boiled in baryta-water. By evaporation, it forms a sour, bitterish, uncrystallizable syrup, with feelle acid properties. It has been determined with a great degree of certainty by Wurts and others, that the proper formula for hypophosphorous acid is PH<sub>2</sub>O<sub>2</sub>, instead of PO, as it is found impossible to abstract the two equivalents of water contained in all hypophosphites, without causing their decomposition. The hypophosphites have lately received several important applications in medicine. The salts of soda, potash, ammonia, are formed by adding the carbonates to a solution of hypophosphate of lime, made by boiling four pounds of caustic lime slaked with a gallon of water, with one pound of phosphorus and four gallons of water. The filtered liquid is evaporated and crystallized.

Hypophyl'Huma, z. [Lat., from Gr. hypo, and phyleric acid (Red.) watch the heart formed (Red.) watch the heart formed (Red.)

and crystalized.

Hypophyl'ilaum, s. [Lat., from Gr. hypo, and phyllon, a leaf.] (Bot.) A petiole that has the form of a
small sheath, is destitute of lamine, and surrounds the
base of certain small branches, having the appearance
of leaves; as in asparagus. It is nothing but a rudimenter leaf.

mentary leat.

Hypophyllous, a. (Bot.) Applied to bodies which grow on the und. reide of a leaf.

Hypoph ysis, n. (Med.) A disease of the eyelids, when hairs grow so much as to irritate and offend the

pupil. **Hypo** 

pupil.

kypopith'ys, n. [Gr. hypo, under, pitys, a pine-tree; its piace of growth.] (Bot.) A genus of plants, order Monotropaces. They are parasitic herbs, of a tawny white color; root scaly; stem simple; flowers racemed, lateral ones tertramerous. terminal ones pentamerous. H. lanuginous, the Pine-sap, is found in woods from the Carolinas N. to Canada.

(Anat.) The gland-like body and sac which originate from the under surface of the third ventricle of the brain.

brain.

Hypo'pyon, n. [From Gr. hypo, and pyon, pus.] (Med.)
A disease of the eye, in which there is an apparent collection of pus under the transparent cornes; that is, in
the chamber of the aqueous humor.

Hyposee'mium, n. [Gr. hypodemion, from hypo, and
skene, a scene.] (Anc. Arch.) The front wall of a theatre,
facing the orchestra, from the stage.

Hypos'tasis, n. [Gr. and Lat. hypodamis — Gr. hypo,
and stasis, a standing, from histemi, to stand] A standing under; subsistence or substance.

(Theol.) This term was used by the Greek fathers to
express the distinct personality of the Father, Son, and
Holy Ghost. This term is retained by the Latin fathera,
who, like ourselves, had no word which could exactly
represent hypostasis, which differs from obsis, substance, represent hypostasis, which differs from obsia, substance, inasmuch as the latter is used for the divine substance, essence, or being—that which is common to each of the hypostases, persons, or individual substances which

(Alchemy.) By this word was expressed the doctrine that sait, sulphur, and mercury are the three principles

e the one Godhead.

Digitized by

of all material things.

(Med.) A morbid disposition in the body; sediment.

Hypos'tasize, v. a. To represent as a person. (a.)
Hypostat'ie, Hypostat'ical, a. Relating to hypostasis; distinctly personal, or constituting a distinct substance.

H. union. (Theol.) The union of Christ's human nature with the divine, constituting two natures in one

Hypostat'ically, adv. In an hypostatical manner.
Hypostatize, v. a. To attribute distinct personal
existence to.

existence to.

Hypostil'bite, n. [Gr. hypo. under, and stilbite; so called because it contains less Silica than stilbite.] A white or greenish transparent mineral from the island Farce; also found on the island of Skye and near Bombay in India. 9p. gr. 21-225. Comp. Silica 50-3, alumina 19-2, line 10-4, water 20-1, and some soda.

Hypostrophe, n. [Gr. hypo, and strepko, I turn.]

aulphurous acid and a base.

Hyposulphu'ric Acid. n. (Chem.) An acid formed by passing sulphurous acid through water in which finely divided peroxide of manganese is suspended. If the liquid is kept cool, hyposulphate of manganese is formed. By adding baryta-water, hyposulphate of baryta is produced, which may be decomposed by sulphuric acid. Its salts are important. Form. 8<sub>2</sub>O<sub>5</sub>.

Hyposul'phurous Acid., Drhionous Acid, Talsulphuric Acid. n. (Chem.) This acid is formed in combination with soda by fusing equal parts of carbonate of soda and sulphur, dissolving the impure sulphide of sodium formed, and passing through the solution a current of sulphurous acid until it ceases to be absorbed. The liquid is filtered and evaporated, and large crystals of hyposulphite of soda are formed. This sait has received important applications as a fixing agent in pho-The liquid is filtered and evaporated, and large crystais of hyposulphite of soda are formed. This sult has received important applications as a fixing agent in photography, and as an antichlorine in bleaching, to remove the last traces of chlorine from bleached paper or fabrics. The acid has never been isolated; for if a stronger acid be added to any of the hyposulphites, it splits up into 8+80<sub>2</sub>. The hyposulphites are easily recognized by the property they possess of dissolving chloride of silver, forming with it an intensely sweet solution. Besides the double hyposulphite of soda and gold, which is used in photography under the name of ald or, the sait of soda is the only one which has received any important application. Epsiv. 48. Form. 8<sub>2</sub>O<sub>2</sub>.

set d'or, the sait of soda is the only one which has received any important application. Equiv. 8. Form. 3.0.

Hypoth'cea.m. See Hiroteranus.

Hypoth'cea, n. [Lat.; Gr. hypotheke; Fr. hypothèque.]

(Creil Law.) The right acquired by the creditor over
the immovable property which has been assigned to him
by his debtor as security for his debt, although he be not
placed in possession of it; — answering to our mortgage.

Hypoth'ceate, v. a. (Law.) To mortgage.

—To state by hypothesis.

Hypothecation, n. (Civil Law.) An engagement
by which the debtor assigns his goods in pledge to a
creditor as a security for his debt, without parting with
the immediate possession; differing, in this last particular, from the simple pledge.

the immediate possession; differing, in this last particu-lar, from the simple pledge.

(Law of Shipping.) The pawning of a ship for neces-saries, or to raise money in some critical emergency.

By pothereator, n. One who pledges a ship or other property as security for the repayment of money bor-

Hypothemu'sal, a. That belongs to the hypothe

mypotnemusal, d. That belongs to the hypotnemuse.

Hypoth'enuse, n. [Gr. hypo, under, and teino, I stretch.] (Ge-m.) A term denoting the longest side of a right-angled triangle, or, in other words, that side which subtends the right angle. Euclid, in the 47th proposition of his first book, determines the theory by which the square of the hypothenuse is equal to the sum of the equares of the other two sides of a right-angled triangle, which admirable mathematical problem is said to have been discovered by Pythagoras. It is stated in Brande's Dictionary that Cameron, in the motes to his edition of the First Six Books of Euclid, in Greek and Latin, has collected no fewer than seventeen different demonstrations of this celebrated theorem from the plain principles of elementary geometry.

Hypoth'esis, n. [Gr. hypothesis, supposition.] An argument deduced from an allowed fact. For instance, the sun would disappear if it were deprived of its power

argument deduced from an allowed fact. For instance, the sun would disappear if it were deprived of its power of giving light, and also if an opaque body were to be inserted between it and the earth; either of these circumstances would be amply sufficient to explain a total eclipse, and would be the hypothesis from whence we would derive that conclusion. In all mathematical propositions in which the manner of reasoning by hypothesis is so vitally necessary, there are two things to be taken into consideration,—firstly, the hypothesis, and, secondly, the conclusion, the former being that which is granted, or built on supposition, either of which may be the case, and the latter being the necessary consequence of reasoning from the data.

Hypothesize, v. n. To form hypotheses; to make suppositions.

appositions

suppositions.

Hypothetikos.] Relating to an hypothesis; including a supposition; conditional; assumed without proof, for the purpose of reasoning and deducting proof.

Hypothetically, adv. By way of supposition.

Hypothetitat, n. One who defends an hypothesis. (R.)

Hypothecitist, n. One who defends an hypothesis and the capital of a column which occurs between the shaft and the annulets of the echinus.

Hypotypo'sis, n. [Gr., from typos, a type.]  $(R^{het.})$ An animated representation of a scene or event in descriptive language highly enriched with rhetorical

(Med.) Act of a patient in turning himself.—A relapse or return of a disease.

Hypostyle, n. [Ur. hypostylon, from hypo, under, and stylon, a pillar.] (Arch.) That which is supported by columns or pillars.

Hyposul'phate, n. (Ohem.) A salt resulting from the union of hyposulphuric acid with a base.

Hyposul'phate, n. (Ohem.) A compound of hyposulphurous acid and a base.

(Chem.) A need formed Hypexam'thite, n. (Min.) An iron clay or ocnre or a yellowish color.

Hypexida'cese, n. pl. (But.) A small order of plants, alliance Narcisales. Diag. Hexapetaloideous flowers which are much imbricated, 6 stamens with anthers turned inwards, and a radicle remote from the hilum, which is often strophiolate. Hyponis erecta, the Stargrass, common in woods and meadows in all the States, may be taken as type of this unimportant order, which includes a genera and 60 species.

Hypexides, n. pl. (Zoll.) The Blind-fish family, a family of Malacopterygious fishes, including the Blind-fishes, Amblyopsis, Spelacus (Dekay), of the Mammoth Cave, Kentucky.

fishes, Amblyopsi Cave, Kentucky.

Cave, Kentucky.

Hypsom'eter, n. [Gr. hypsos, height, and metron, a neasure.] One who practises hypsometry.

Hypsometric, a. That relates to hypsometry.

Hypsom'etry, m. The art of measuring height, either relative or absolute, by trigonometry or the ba-

either relative or absolute, by trigonometry or the barometer.

Hy'Fax, n. [Gr., a shrew-mouse] (Zoil.) The Daman, a genus of small Manninalia which rank next the Rhinoceros in the order of their affinities, and are the most discriminative representatives of the Puchidermala. The Syrian Daman, H. Syriacus [Fig. 673], identical with the Ashkoko of Abyssinia, H. Abysarious, is now generally believed to be the Shaphan of the Old Testament, the Cony of the English version.

Hyren'mia. (Anc. Geog.) A province of Asia that was bounded N. by the Caspian Sea, E. by the river Oxus, and the river Charindar. According to Xenophon, its inhabitants were subdued by the Assyrians.

Hyrenmus, Johannes, high-priest and prince of the Jews, was son of Simon Maccabeus, on whose assassination he succeeded him as supreme ruler, S. C. 136. Jerusalem was soon after besiezed by Antiochus Sidetes, king of Syria, with whom Hyreanus was compelled to make a burdensome peace. In 131 he accompanied Antiochus in his expedition against the Parthians, and from a victory over the Hyreanian tribe he acquired the surname Hyreanus. Antiochus being killed during this war, Hyreanus threw off the yoke of Syria, conquered Idamea, besieged and destroyed Samaria, and made an alliance with Rome. The last years of his reign were troubled by the dissensions of the Pharisees and Sadducees. Died S. C. 106, and was succeeded by his son Aristobulus, who took the title of king.

Hyreymansville, in Pennsylcania, a former postoffice of Lehigh co.

Hyreymansville, in Pennsylcania, a former postoffice of Lehigh co.

Hyre'mamswille, in Pennsylcaniu, a former postoffice of Lehigh co.

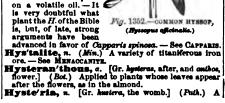
Hysom, n. (Com.) One of the best varieties of green tea.
An inferior quality is known as Hyson-skin.—See Tza.

Hys'sopus, n. [Heb. zaob; Arab. azor) hyssop.] (Bok.)

The Hyssop, a genus of plants, order Lamiacez. They
are perennial herbs, natives of S. Europe, cultivated in
our gardens for their beauty, and on account of their
reputed medicinal properties. H. afficinalis,
the Common Hyssop, is
a handsome plant, 18
inches long, the upper
part of the stem quadrangular, the leaves
avergreen and lancoo-

part of the stem quadrangular, the leaves evergreen and lanceolate, the flowers in one-sided, whorled recemes. The flowers are generally of a very beautiful blue. It has an agreeable aromatic order. It has long order. odor. It has long been in cultivation for the sake of its leaves and young shoots, which are sometimes used for culinary purposes as a seasoning, but more generally in a dried state as a stomachic and carminative.

A syrup made with them is a popular remedy for colds. The virtues of H. depend on a volatile oil. — It - It 🗲



nervous affection to which females are particularly subject, and which is generally connected with uterine irregularities. It occurs most frequently with persons between the ages of fifteen and forty-five or fifty, and is most common with single women of weakly constitution, and who lead sedentary lives. This complaint appears in such variety of forms, and simulates such a variety of diseases, that it is scarcely possible to give a just character or definition of it. The attack is usually preceded by dejection of spirits, anxiety of mind, difficulty of breathing; a ball is felt advancing upwards from the stomach into the throat, and threatening to stop the passage of the sir; then the trunk and limbs of the body become violently convuised, the patient sobs and cries, and occasionally bursts out into fits of laughter. After a time these symptoms gradually cease, a quantity of wind is evacuated upwards, with frequent sighing and sobbing, and the woman recovers the exercise of sense and motion without any recollection of what has taken place during the fit; feeling, however, a severe pain in her head, and a soreness all over her body. A fit of hysteria may last from a few minutes to several hours, or even days. It is to be distinguished from an epileptic fit by the absence of foaming at the mouth, by the sobbing and crying, by the milder expression of countenance, and by its being gradual, and preceded by the sensation of a ball. Hysteria assumes various other forms; as palpitations of the heart and difficult respiration; pains in different parts, as the head, left breast, &c.: different forms of paralytic affections. &c. The hysteric fit, however slawming and dreadful it may appear, is rarely accompanied with danger, and never terminates fatally unless it passes into epilepsy, or the patient lee in a very reduced state. During the paroxysm, the first care is to see that the patient do no injury to herself by striking her head or hands against any hard suitatnees, nor to others by biting. If the fit be slight, it trils. If more serious, the face and neck ought to be freely exposed to the air, the forehead lathed with wet cloths, and a slight purgative administered. In some cases hysteria is owing to plethon, or fullness of blood; in others to deficiency of it. In the former case, a spare diet, exercise, and occasional purgatives are recommended with sometimes the actival slattraction of blood. diet, exercise, and occasional purgatives are recom-mended, with sometimes the actual abstraction of blood; mended, with sometimes the actual abstraction of blood; in the other case, the system is to be kept up and sustained by nourishing diet and tonics, particularly iron. The patient's mind is to be kept as cheerful and tranquil as possible by agreeable company; and all tendency to excess or irregularities kept in check. The great cause of the prevalence of this disorder among our young females is owing to the defective physical and mental training to which they are subjected. Were their physical frames developed and strengthened by proper exercise, and their mental powers kept in proper subjection, there would be much less of hysteria.

Hyster'ic. Hyster'ical, a. [Fr. hysteriau; Gr. hystrike, from hystera, the womb.] (Med.) Relating to the womb; spasmodic; convulsive; disordered in the region of the womb; troubled with fits or nervous affections.

fections

Hysterically, adv. In an hysteric manner; spac-

modically.

Hysteries, n. (Med.) A disease characterized by convulsive struggling, sense of suffocation, drowsiness, and fickleness of temper; Hysteria, q. v.

Hysteriesel, n. (Gr. hystera, the womb, and kele, a tumor.) (Med.) An hernia of the womb.

Hystereliesy, n. (Gr. hystera, the latter of two, and legos, discourse.) (Rhet.) A figure, called also Hysteron Proteston, by which the ordinary course of thought is inverted in expression, and the last put first; as where objects subsequent in order of time are presented before their anteredents, cause before effect, &c. Some comprehend the figure usually called anticlimax under the name H. the name H

the name II.

Hysterot'omy, s. [Gr. hystera, the womb, and tone, a cutting.] (Surg.) The extracting of the ketos from the uterus; the CESAREAN OPERATION, q. v.

the uterus; the Cheanran Openation, q. e.

Hystife'ddae, n. p.l. (Gr. hystrix, a porcupine.) (Zofl.)

A family of Rodent quadrupeds, of which the porcupine,

Hystriz cristata, is the type. It comprises a large number of Rodenta, which at first view seem very different
from another, but which are united by important characters. The molars are 444, and the terminal portion

of the muzzle is clothed with small hairs. They are mainly Americans, and chiefly confined to S. America. The principal species or genera will be seen under their respective names.

respective names.

Hythe, n. Same as Hithe, q. v.

Hyurhha, (ho-roda.) or Jurua, or Jurua, a river
of Brazil, enters the Amazon near Jutay.

Hyutahy, (yu-take.) or Jurat, or Juran, or Kutay
a river of Brazil, enters the Amazon a few miles E. of
Olivenca.

## H.—SECTION II.

## HAGG

Hamp'lems, Harles, Harles, a city of the Netherlands, privince of North Holland, 10 m. W. of Amsterdam. It was formerly a place of great strength, but the ramparts are now converted into public promenades. A number of canals traverse the town in different directions, some of them bordered with trees. Among the public edifices are the Stadthaus, containing a valuable collection of pictures; a royal mansion, or palace; and several charitable institutions. The number of churches is considerable, the cathedral of St. Bavon being the largest in Holland, and containing a collection of antiquities of the time of the Crusades, besides the famous Haarlem organ. The other objects of interest are the town library, the Anatomical Theatre, the Botanical Garden, the Academy of Sciences, founded in 1752, and to which a valuable museum is attached; and the Horticultural Society. Mansi, Jewelry, cotton, linen, and silk stuffs, thread and ribbons. Haatlem has long been celebrated for its bleaching grounds, and carries on an extensive traffic in flowers, particularly tulips. Pop. (1897) 54,950.—It was the birthplace of L. Coster, the inventor of movable printing-types, and of the painters Berghem, Ostale, Ruysdeel, Yanderhelst, Wouvermans, and the Vanderrebles.

Haar'lems, Laske off, an extensive lake of Holland, laying in the triangular space of which Haariem, Amsterdam, and Leyden furnish the apices. This lake was formed in the sixteenth century, by an inundation of the sea; but, by means of work steadily carried on from 1841 to 1852; it has been almost entirely drained, and fully 45,000 acres gained to the kingdom.

Hash'bertem, John, author, born in Brooklyn, N. Y., Feb. 24, 1842; ontered the establishment of Harper & Bruthers, New York, where he learned typesetting; entisted in the Civil War as a private (1862); afterward returned to the Harpers. He became literary editor of The Christion (Ision in 1874, and editorial writer on the New York Herald in 1877. Has written everal clover

Feb. 24, 1842; outered the establishment of Harper & Brothers, New York, where he learned typecetting; enlisted in the Civil War as a private (1862); afterward returned to the Harpera. He became literary editor of The Christine Wisson in 1874 and editorial writer on the New York Hardd in 1877. Has written several clever novels, of which the best known is Helen's Babies, a humorous story of child life.

Hav'beeck, or Haw'belek, n. A cloth-dresser's implement having a hook at each end.

Habema'rila, n. [Lat. kabena, a thong or strap.]
(Bot.) The butterfly orchid; a genus of orchids, trilse Ophres, family Gymandenides. It resembles orchids in general, but has the glands of the pollen masses free, distant and exposed. A hundred species are known—about twenty in North America, where they are popularly known as "rein-orchids."

Hab'itat, n. [Lat., it dwells.] (Nat. Hist.) The place in which any particular animal lives when wild, or in which a wild plant grows. The word was used in Latin descriptious; as, kabiati is Europe—"it dwells [lives, grows] in Europe;" but when the term grew familiar it came to the used as an English noun. See Geographical Distribution; as, habitat is Europe—"it dwells [lives, grows] in Europe;" but when the term grew familiar it came to the used as an English noun. See Geographical or characteristic appearance, as of an animal or plant. (Med.) Condition or tendency of body.

Hack'ismder, Farderick Wilhelm, von, poet and dramatist, was born near Aix-la-Chapelle, on Nov. 1, 1818. He travelled in the East in company with Baron von Taubenheim, and in 1843 became private secretary to the Criwn Prince of Würtemberg. His works include a collection of Oriental tales and legends, under the titles of Pigernag mach Makka, and Daynerreotypes Aufgenommen and Einer Reise in den Orient. A collection of his literary labors, published in Stuttgart, numbered 60 volumes. He has been styled "the German Dickens." Died July 5, 1877.

Hasek'mastack, n. [N. A. Indian.] (Bot.) The American larch, or tamarack tree (La

and the U.S.

Ha'gemam, in Indiana, a village of Porter co. Its pat-office is Porter. Pop. (1897) 714.

Hag'gard, Henry Rider, novelist, was born in Norfolk, England, June 22, 1856; went to Natal (1875) aprivate secretary to Sir Henry Bulmer, and afterward served in a similar capacity under Sir Theophilus Shep-

stone, in the Transvaal. On his return to England, H. entered upon a literary career; his first book, Osteogopo and his While Neighbora, published in 1882, being descriptive of life and conditions in South Africa. Of his novels, Dassa appeared in 1884, The Witch's Head in 1886, King Solomon's Mises in 1886, and She in 1887. The two last named placed H. in the very front rank as a popular novelist, and his subsequent works were for some years frequent and numerous, his style being wonderfully vivid and imaginative. Of his society novels, Beatrice is one of the most popular.

Hag'gart, John Graham, Canadian statesman, was born at Perth, Ontario, on Nov. 14, 1836; was employed in the milling business, in that city, of which he was for some time mayor; elected to the Dominion Parliament in 1872-74-78-32-37 and 1891; was made Postmaster-General of Canada in 1888, and appointed Minister of Railways and Canada under Premier Abbutt.

Hague (kdg), Arnold, geologist, was born in Boston, Mass., Dec. 3, 1840; educated at Sheffield Scientific School of Yale University, Heidelberg University, and Freiberg Mining Academy; was assistant geologist on the Forteth Parallel Survey (1879); geologist on the U. S. Geological Survey (1879); elected member of the National Academy of Sciences (1885). In his writings he has made a specialty of volcanic rocks.

geologist to Gustemala (1877) and China (1878); geologist on the U. S. Geological Survey (1879); elected member of the National Academy of Sciences (1885). In his writings he has made a specialty of volcanic rocks, though his works are varied in character. Among those are: Descriptive Geology; Geological Exploration of the Fortish Purallel; Geology of the Eureka District, Nevada, Monograph XX., U. S. Geological Survey. Some of his minor papers are: Volcances of Northern California, Oregon, and Washington; Volcanic Rocks of the Great Basin, &c.

Hashm-Hashm, Ida Marie, Countress, novelist and religious writer, born in Germany, June 22, 1815; became the wife of her coustin, Count Friedrich Wilhelm Adolf von Hahn-Hashn, lut obtained a divorce in 1829. She published poems, novels, and travels, of which her romances were the most popular and were widely read. They include: Aus des Gesellschaft; Gröffes Fusstine; Gigismand Forster, &c. She was converted to the Roman Catholic faith and wrote a book upon the subject, entitled Von Babylon such Jerusalem; afterward devoted herself to the reformation of fallen women, residing the latter part of her life at Mentz. Among her later works are: Preprinc; Die Glücknersbockler, &c. Died Jan. 12, 1880.

Hashmes'Lown, in Prensylcanic, a village of Westmorehard to Pop. (1897) about 700.

Hashes'Lown, in Prensylcanic, a village of Westmorehard to Fop. (1897) about 700.

Hashes'Lown, in Prensylcanic, a village of Westmorehard to German courts; formerly a mercenary foot-soldier in Hungary.

Hashmes'Lown, in Prensylcanic, a village of Westmorehard to German courts; formerly a mercenary foot-soldier in Hungary.

Hashmes'Lown, in Prensylcanic, a village of desa, the handling of alpaca, bristes, etc., all of which come under the designation of hair. These, however, are treated under their respective head, and we shall coufine ourselves to the manufactures of hair, as ordinarily so-called.

Hunan Har.—There is a considerable trade in human hair, large supplies of it being obtained from

ne ourselves to the manufactures of hair, as ordinarily so-called.

HUMAN HAIR.—There is a considerable trade in human hair, large supplies of it being obtained from Europe, India, and China, that obtained from Asia being coarse, that from the north of Europe light in color, and that from southern France and Italy dark. The market value of this material depends largely on its length. In the English market hair 8 inches long rings about 1 s. per ounce, while if 3 feet in length, 30 times this price is sometimes paid. The price is also modified by color; pure golden, for instance, bringing more than ordinary colors, while hair from living persons is considered much more valuable than that from the dead. Human hair is worked into watchguards, braceleta, brooches, etc., and is also employed to hide the ravages of age, in the form of wigs or partial coverings for haldness.

Hosse-HAIR.—This material is used to a great extent in manufacture, large quantities being obtained from Russia, South America, and elsewhere, and smaller supplies from the combings of horses manes and tails. About \$2,500,000 worth is imported annually into the

russia, South America, and elsewhere, and smaller supplies from the combings of horse' manes and tails. About \$2,500,000 worth is imported annually into the U. S., and \$300,000 or \$400,000 exported. The most valuable hair is that combed from the tails of horses,

HALE

the hair of the mane being inferior in quality. The former is known as "hard," the latter as "enf." hair, and the terms "live" and "dead" are employed to designate hair taken from living or dead animals. Live designate hair taken from living or dead animals. Live hair commands the best price, while the best hair is that obtained from wild horses. As regards color, white is in most demand, from its adaptation to dyeing in bright tints. Horse hair is sorted according to length, color, and quality. It is then usually washed in warm soap baths and in slightly heated water containing lime and potash. Then (except the white) it is passed through a bath of dye, principally of logwood. The white is subjected to a bleaching process. Short horse-hair is sueed for stuffing chairs, sofas, &c., and for this purpose is often mixed with cow- and pig-hair, the three being incorporated in machines and cleared of dust by beating and screening. The hair is then "curled" by a process is often mixed with cow- and pig-hair, the three being incorporated in machines and cleared of dust by beating and screening. The hair is then "curled" by a process of twisting, the curl being preserved by damping and heating. For inferior stuffing, vegetable fibers are mixed with hair. Long hair is chiefly used in the manufacture of hair-cloth, for which purpose it is usually dyed black. The warp is formed of strong linen or cotton twist, and the weft of hair—whose length determines the width, since the weft is comprised of single hairs. The wearing was long performed by a hand loon, until this was superseded by a power loom invented by Issac Lindsley, of Pawtucket, R. I. In this machine an aim or rod, made to operate like a finger and thumb, grasps the hairs as they are presented by a picker which takes them up one by one from a bench. In modifications of this loom the thick and thin ends-of the lairs are taken up successively by the picker. In weaving hair-cloth only the hair appears on the surface, the warp being hidden. In some special fabrics loth warp and weft are made of hair. Horse hair is also worked up into crinoline for ladies' bouncts, orde for carriages, materials for cigar cases, fishing lines, &c, and has also been employed as a carpet-making material, short hair being used in this instance, woven as a yarn. These carpets are very durable, and well suited for office use.

COW-MAIR.—This material is largely used for the pur-

COW-HAIR.—This material is largely used for the pur-

OW-HAIR.—This material is largely used for the purpose of binding plaster for the internal walls of houses, in the manufacture of roofing and other felts, and is mixed with horse-hair for upholstery purposes and with wool for common blankets, rugs, &c. It is obtained in considerable quantities from tanueries.

CANEL-HAIR is obtained from the legs, useks and humps of both species of camel, that from the Arabian camel being fine and light colored, that from the Bactrian camel coarser and darker. Young camels yied the finest hair. In Asiatic countries it is woven into soft, warm and desirable cloth for clothing, and is also made into carpets, tent-cloths, &c. It is also sent in considerable quantity to Europe and America for carpetmaking and mixing with wool, while the finer kinds are made into warm clothing. What are known as camel's-hair brushes are really made from the tail of the sable or squirrel.—Gost-keir. Cheap carpets and other fabrics are made from the hair of the common goat, while that of the Angors or Mohair goat is a very important material in textile industries, as also is the fine wool which forms part of the fieces of the Cashmere goat.—Fig's kear is principally used for making brushes, while even elephant's hair is turned to use, a native bracelet being made from it by some triles in Nyassaland.

[From kalo.] (Photog.) An appear-

native Practice using misses of the Nyassahand.

Malas'fiom, n. [From kolo.] (Photog.) An appearance as of a halo of light surrounding the edge of a dark object in a photographic picture developed upon iodide of silver; perhaps caused by radiation of light from some object, or by reflection from the back of the plate.

plate.

Halle, Edward Everett, D. D., philanthropist, author and divine, born in Boston, Mass., April 3, 1822; educated at the Boston Latin School and at Harvard; entered the Unitarian ministry and had his first charge (1846) at Worcester, Mass. In 1856 was appointed pastor of the South Congregational (Unitarian) Church of Boston. His stories, which are numerous, include: Ten Timee One is Ten, and In His Name. Jointly with Susan H. he has written several works: Through Mexico. The Story of Massackneeth, and East and West. He was editor of the Unitarian paper, The Christian Engineer: founded and edited (1869) Old and New. which was subsequently merged into Scribner's Monthly. He was made famous by two of his shorter stories. A Mass Without a Dicitized by

Country, and My Double and how he Undid Me; is a popular lecturer, and counselor of Chautauqua University.

Hale, Horatio, ethnologist, born in Newport, N. H.,
May 3, 1817; graduated at Harvard (1837); appointed,
the following year, philologist to Capt. Wilker scientific
expedition to the Antarctic and Southern Pacific seas.
After his return he traveled extensively and pursued
his studies in literature and anthropology. He was
admitted to the bar, and practiced law at Clinton, Canada, though continuing his researches in science. He
was a member of a number of learned societies both in
Europe and America, and the author of: Ethnography
and Philology; The Iroquois Book of Rites; Indian Migrations as Evidenced by Language, &c. Was president
of the authropological section of the American Association for the Advancement of Science in 1836, and
delivered a notable address on The Origis of Languages
and The Antiquity of Specking Man. D. Dec. 30, 1896.

Hale, Juhn P., statesman, born at Rochester, R. H., in
1806. He graduated at Bowdon College in 1827, and
after being admitted to the bar, in 1830, was district

Hale, John P., atatesman, born at Rochester, N. H., in 1800. He graduated at Bowdoin College in 1827, and after being admitted to the bar, in 1830, was district attorney for New Hampshire, under Jackson, a representative in New Hampshire legislature in 1832, was elected in 1843 to Congress by the Democrats of his State, was Speaker of New Hampshire bouse of representatives in 1846; was elected U. S. Senator in 1847, in which capacity he distinguished himself by his independent line of politics, and individual opposition to slavery. In 1852 he was the unsuccessful candidate of the Liberty party for the Presidency; in 1855 he was again elected to the Senate, and reflected in 1859, remaining in that body till 1865. A: the close of his term in the Senate he was appointed Minister to Spain, a position he held till 1869. Died Nov. 17, 1873. Hale, in Alabama, a W. co.; area, 732 sq. m. Bounded on the W. by Black Warrior river. Surface, undulating and extensively covered with forest; soil, fertile. Prod. cotton, corn, sweet potatoes and pork; live stock. Cop. Greensborough. Php. (1890) 721. Hale-vy., Ludovico, novelist and librettist, son of Léon H., was born in Paris on July 1, 1834; wrote nearly all the librettoe for Offenbach's popular opera-bouga, largely in collaboration with Henry Meilhac; also, with the same, the plays Fron-fron, Le Menuel de Dome, &c. Half-tone, Half-tone Process. See Engraving, Phoro-

Half-Come, Half-tome Process. See EngravING, PROTOHalf-Burtom, THOMAS CHANDLER, jurist, politician, and humorist, was born at Windsor, Nova Scotia, in 
1796; studied law, became a member of the colonial 
legislature, justice of the Court of Common Pleas 
(1829), and judge of the Supreme Court (1849). He 
resigned from the bench in 1842, removed to England, 
and entered Parliament (for Launceton) as a Conservative, in 1859. His works include several books and 
pamphlets on Nova Scotia, but he is best known as the 
creator of Sam Blick, whose humorous sayings and 
doings were first published in a series of newspaper 
sketches, and later republished in book form. Died 
August 27, 1865.
Half-Ifax, Charles Montagu, Earl or, state-man, 
learn at Horton, Eng., in April, 1661, entered the House 
of Commons in 1890, rose to the first rank as a parlismentary deleater, and became, along with Lord Somers, the chief leader of the Whig party. In 1896 he 
was appointed Chancellor of the Exchequer, and in 
1701 was impeached by the Tory majority in the House 
of Commons, but was acquitted by the House of Lords. 
After the death of Queen Anne he served as one of the 
regents of the kingtom until the arrival of the new 
sovereign, George I., who made him his First Lord of 
the Treasury. Lord H. was a munificent patron of 
literature and art; aided in the foundation of the British 
Museum and of the Bank of England, and called into 
existence what has since been called the National Debt. 
Died in 1715.

Hall, Asaph, astronomer, born at Goshen, Coun., Oct. 
15, 1829; studied astronomy at the University of Mich-

Experience what has since been cancer and Astrobal Debt.

Hall, Asapu, astronomer, born at Goshen, Coun., Oct.

15, 1829; studied astronomy at the University of Michigan, under Brunnow, and became assistant to Prof. W.

C. Bond in the observatory at Harvard; appointed to the position of aids in the Naval Observatory, Washington (1862), and in the following year was commissioned professor of mathematics in the Navy. Of several expeditions made by him for astronomical observations, the most important was that to Viadivostok, Siberia, to observe the transit of Venus (1874). He was the successor of Prof. Newcomb in the charge of the great equatorial at Washington (1875), and made his famous discovery of the satellites of Mars in 1877.

Many of the results of his work are published in the Washington Observations. The Boyal Astronomical Society of London has awarded him agold medal.

Hall, Charles F., Arctic explorer and author, was born in Cheinnati in 1825, and was for some years a prominent journalist in that city. Becoming deeply interested in Dr. Kane's two expeditions to the Arctic regions, as well as in the various searches for Sir John Franklin, and having devoted much of his time and atudy to the subject of Polar exploration, he sailed (1860) on an expedition in search of the lost navigator, defraying a considerable portion of the expense from his own means. He spent two years and three months in the Arctic regions at this time, learned more particulars in regard to Sir John's death than any previous explorer, and in 1864 returned to the North and spent five years there, mastering thoroughly the Esquimux language, and adopting to a considerable extent their Hall. Asaru, astronomer, born at Goshen, Coun.

mode of life. During this second expedition he discovered and brought home many relics of the Franklin expedition, and fully ascortained the time and places when and where they had perished. After his return he devoted himself to scientific study, and in July, 1871, set sail a third time for the Polar regions on board the Polaria, a government steamer fitted up expressly for him, with a picked crew, scientific observers, and all necessary appliances, the Congress of the United States having appropriated \$100,000 for the exploration. He expected to be gone three or four years, and was sanguine of being able to reach the North Pole, but died in the Arctic regions, Nov. 8, 1871. Capt. H., after his return from his first voyage, published a narrative entitled Explorations and Adventures in the Arctic Regions. Hall, Isaac Hollistens, Orientalist; born in Norwalk, Coun., Dec., 12, 1837; graduate of Hamilton College (1869); subsequently tutor there; admitted to the bar; practiced law in New York City (1864-75); held a professorbip in the Syrian Protestant College of Beirut (1875-77); later was associate editor of The Sessday School Times, Philadelphia. He was the first to read an entire inscription in the Cypriote ianguage, and discovered in Beirut a Syriac manuscript of the Gospels, Acts, and most of the Episites. The manuscript was dated between 700 and 900 A.D., and its Gospels constituted the long-lost Philoxonian version; also discovered the Antilegomena Episites in the "Williams Manuscript." Besides numerous articles on Oriental inscriptions and other subjects, he wrote a Critical Bibliography of the Greek New Testoment as Published in America. Died July 2, 1896.
Hall, John, Clergyman; born of Scottish parents in co. Armagh, Ireland, July 21, 1829; educated in Belfast Cellored Hall (1900).

Died July 2, 1896.

Mali, John, clergyman; born of Scottish parents in co.

Armagh, Ireland, July 21, 1829; educated in Belfast
College: licensed to preach (1849), and went to the
west of Ireland as a missionary; was called to the First
Presbyterian church in Armagh (1852) and to the
church of St. Mary's Abbey, Dublin (1868); delegate
from the Presbyterian churches in Ireland to those in the Irom the Presoyterian controles in Ireland to those in the U.S. (1887), and the same year was made pastor of the Fifth Avenue Presbyterian church, New York, a pastorate which he still holds (1897). He was chancellor of the University of the City of New York (1882-90), and is author of: Foundation Biones for Young Builders; A Christian Home: How to Make and Maintain it, &c.

the University of the City of New York (1882-00), and is author of: Foundation Stones for Yoese Builders; A Christian Home: How to Mules and Maintain it, &c.

Hall, Newean, Congregational preacher; born at Maidstone, England, May 22, 1816; educated at Highbury College; received the degree A.B. from the University of London; also won a law scholarship, and obtained the degree of LL. B. (1835); studied theology, and was ordained in 1842. His first charge was in Hull. In 1854 he became pastor of Surrey Chapel, Black Friar's Road, London. He is a Non-Conformist, but uses the liturey of the Church of England, with alight modifications. During the Civil War in America he was friendly to the Union, and visited the United States (1865) in the endeavor to promote friendship between the American and English peoples; made a second visit in 1873, lecturing in the principal cities, and again made a short visit in 1884. He is author of: The Christian Fullosopher; Lond of the Forum and the Vaticus; Lactures in America; Pilprim Songa, &c.

Hall, in Teraa, a N.W. co.; area, 180 sq. m.; intersected by Red river. Surface, level; soil, dark, fertile loam. Producta, wheat, corn and vegetables. Stock raising is a leading industry. Pop. (1897) about 1,500.

Hall-marks, or Plate-marks. (Mans/) Impression authorized by law to be made on articles of gold and silver, for the purpose of apprising the public of the true value and fluences of the metal contained in them. The marks are a series of symbols, stamped in an emboseed style, of a size varying with that of the article impressed, and usually stamped on every separate piece which is used in making up an article. In the gold standards, figures are employed to denote the number of carats of finences. Pure gold being recknowed at 24 carsta, the figure 18 indicates 18 parts of gold and 6 of sone inferior metal. Gold as low as 9-carat finences is now legal, this being a little over one-third pure gold. In hall-marks the initials of the maker's name have been used since 1739, and in edditi tion to the figures for fineness various symbols are used in different countries, such as the crown (in England), the thistle (in Scotland), &c. The stamping is done in the assay office, so as to secure the public against false

the assay office, so as to secure the public against false marking.

Hal'lock, in Minnesota, a post-village, cap. of Kittson co., on Great Northern R. R. Pop. (1895) 649.

Hal'mas, s. [Gr.] In ancient Grecian games, the long jump with weights in the hands.—Now, a game played on a board having 256 squares, by 2 persons with 19 men each, or by 4 with 13 men each, the object of the players being to get the men into the places occupied by their opponents.

Hal'man Cuarant

players being to get the men into the places occupied by their opponents.

Hal'pine, Charles Graham, soldier and poet; born at Oldcastle, County Meath, Ireland, Nov. 20, 1829; graduated at the University of Dublin. In 1847 he went to New York and became connected with the New York Herold, Times and other papers; also contributed to the Boston Post; engaged in the Civil War, and became brigadier-general of volunteers; was also major and brevet major-general in the regular army; resigned his commissions in the army in 1864. Author of humorous and other peems under the pen-name of PRIVATE MILES O'REILLY. Died Aug. 3, 1868.

Hal'stead, Murat, journalist; born in Butler co., O., Espt. 2, 1829; graduated at Farmers' College, College Hill, O.; became a local reporter on the Cincinnati

Enquirer; news-editor of the Cincinnati Allas; literary-editor of The Columbian and Great West, and (1856) the chief editor and proprietor of the Cincinnati Commercial, of which he continued chief editor when the Commercial and Gassatis were consolidated (1882). In 1880 he became editor of the The Standard Union, Brooklyn, N. Y. Wrote The Stary of Cubu (1896), and has contributed many special articles to various newspapers.

Hai'stead, in Kansas, a city of Harvey co., on Little Arkansas river, 10 m. W. of Newton, on A. T. & S. Fé R.R.; has flour mills, grain elevators and a creamery. Ships largely of farm produce and live stock. Pop. (1895) 694.

Hami'blem, in Tensessee, an E. county; area, 150 sq. m. Bounded on the N.W. by Holston river, on the S. by French Broad river. Burjace, hilly; soil, fertile. Prod., corn, oats, wheat, white and sweet polatoes, pork. Cup. Morristown. Pop. (1890) 11,418.

Hami'burg, or Black Hami'burg, s. A fine hot-house grape.

A variety of domestic fow! See Favus Domestic

hot-house graps.

A variety of domestic fewl. See Fowls, Domestic.

Ham'burger Steak. A breakfast dish of minced beef, made up in the form of steak or in balls, and fried or broiled.

beef, made up in the form of steak or in balls, and fried or broiled.

Hamm'ertom, Philip Gilbert, artist, was born at Manchester, England, on Sept. 10, 1834; after 1859 he resided chiefly at Autun, France. He achieved some fame as a landscape painter, which art he studied under Pettill, and in Paris (1865) under Wyld; but his canvases are not generally popular. He invented the "positive process" of etching, on which subject he wrote largely; founded The Portfolio, a review mainly devoted to etching, and contributed many arteriticisms to leading journals and magazines. His published works include: Ekching and Echers; Thoughts about Art; The Intellectual Life; The Unknown River; Observations on Heruidry, &c. Died Nov. 6, 1834.

Hamm'iltom, Frank Haffings, surgeon, was born at Wilmington. Vt., Sept. 10, 1813; graduated in medicine from the University of Pennsylvania (1833), and began practice at Auburn, N. Y.; was professor of surgery at Western College, Fairfield, N. Y. (1839), and at the College of Genera (1840). In 1844 he went to Buffalo with Drs. Austin Filint and James P. White, and established the medical department of the University of Buffalo M heing numbered in surgery at In 1869 he here in professor of surgery at In 1869 he professor of surgery In 1869 here.

with Drs. Austin Flint and James P. White, and established the medical department of the University of
Buffalo, H. being professor of surgery. In 1860 he
removed to Brooklyn and became the first professor of
surgery in the Long Island Hospital College. The
next year he entered the Federal army as surgeon of
the 31st N. Y. Volunteers; was made brigade surgeon
after the first battle of Bull Run, and in 1862 became
surgeon to Gen. Keyes' corps; in 1862 was appointed
medical inspector, U. S. A. He retired from the service
in 1863, and returned to Bellevue Hospital, to the surgical staff of which he had been attached in 1861, a connection that continued until his death. Was professor
of surgery in the Medical College of that institution
from 1868 to 1875. He was one of the surgeons who
vainly tried to eave the life of President Garfield. Dr.
H. was one of the most successful operators of his day,
and a copious contributor to surgical literature. Died
Angust 11, 1886.
Hamssitems, James, marine painter, born in Ireland

August 11, 1886. Hamailton, James, marine painter, born in Ireland about 1820, was taken to the U. S. in infancy. He studied and practiced his profession in Philadelphia, and acquired much distinction by his illustrations of Dr. Kane's Arctic Explorations (1855-56). He subsequently confined himself aimost exclusively to marine subjects, and his Niagara, his Ceens Viess, and his pictures of naval engagements are well known. Died in 1878.

in 1878.

Hamilton, Sir William Rowan, born in Dublin, Aug. 3, 1805; graduated at the Dublin University with high honors in mathematics; became Astronomor Royal for Ireland in 1827; was knighted in 1835, and president of the Royal Irish Academy in 1837. He was one of the greatest mathematicians of the age, producing many works of importance in this acience. His fame rests, however, on his great invention, that of the calculus of quaternions, which remains as a monument of analytical genius. In his Theory of Systems of Rays he determined two new laws of light, the internal and external conical refraction of biaxial crystals. Died Sept. 2, 1865.

Sept. 2, 1000.

Hamnitcom, in Komeas, a S.W. co.; area, 922 sq. m. Intersected by Arkansas River. Serface, undulating prairie; scarcely any timber. Cap. Syracuse. Pop. (1895) 1,411.

prairie; scarcely any timber. Cap. Syracuse. Pep. (1895) 1,411.

Hamiltom, in Nebraska, a S.E. central co.; crea, 576 sq. m. Bounded on the N.W. by Platte river, and also drained by North. Middle, and West Forks of Big Blue river. Surface, undulating; timber scarce; soil, fertile. Products, wheat, oata, corn, live stock. Cap. Aurora. Pop. (1890) 14,096.

Hamiltom College. (Educ.) An educational institution located at Clinton, Oueida co., N. Y., founded in 1793 as an academy, and chartered as a college in 1812, it being the third in the State. It was mamed from Alexander Hamilton, its generous contributor and one of its first trustees. There are 18 professorships, most of which are endowed. Connected with the college is the Maynard-Knox Law school; also, the Edwin most of which are endowed. Connected with the college is the Maynard-Knox Law school; also, the Edwin litting of which are endowed. Connected with the college is the Maynard-Knox Law school; also, the Edwin litting of which are endowed. Connected with the college is the Maynard-Knox Law school; also, the Edwin its contact of the contact of

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N. Y., near which it is particularly displayed. It includes a considerable thickness of shales, with some limestone, and lies between the Marcellus and the Genesce shales, though considered by some to include these shales also. This formation extends southward along the Appalachian system into Pennsylvania and Virginia, and westward, it being represented by a thin shale in Ohio and calcareous rocks further west. Flagstones of excellent quality, known as bluestone, are obtained from its harder layers and extensively used, especially in New York City. Some of its deeper shaly members, bituminous in character, are supposed to be the chief source of the petroleum and natural gas of the overlying sandstones in Pennsylvania and West Virginia. The fossils include land and water plants, great numbers of invertebrate animals, and fishes.

the overlying sandstones in Pennsylvania and West Virginia. The fossils include land and water plants, great numbers of invertebrate animals, and fishes.

Hemilto'mism, a. Of or pertaining to any one of several noted men by the name of Hamilton, viz.: Alexander Hamilton, American statesman and financier (1757-1894); Sir Wm. Hamilton, Scottish mataphysician and logician (1788-1836); Sir Wm. Rowan Hamilton, Irish mathematician, who invented quaternious (1805-1865); and, especially, James Hamilton, who popularized a system of language-teaching called from him the Hamiltonian System, though it was known long before and had been recommended by Locke in his Thoughts Concerning Education. H. was born in 1769, and in early life went to Hamburg, where he studied German under a Freuch refugee, named D'Angelis. After twelve lessons he was able to read an easy book, his tutor having discarded the use of a grammar and translated stories for his pupits word for word. H. began business in Paris, but on the rupture of the treaty of Amiens he was made a prisoner of war. In 1814 he came to America and commenced teaching in New York on the method of D'Angelis. In 1823 he returned to England, taught with success in Mauchester and visited other cities, attracting crowds of people. His system excited both favorable attention and opposition. It was denounced by some as quackery, but was warmly defended by Sydney Smith in the Elishurok His system excited both havorable attention and oppo-ation. It was denonced by some as quackery, but was warmly defended by Sydney Smith in the Edisburgh Review of June, 1826. H. died in Dublin, in 1831. The so-called "natural method" of teaching languages, popular at the present day, appears to be largely an iantation of his system.

adaptation of his system.

Hann'ler, in Ohio, a post-village of Henry co., on B. & O. and L. V. R. Rs.; has manufactures of staves and lumber. Pop. (1897) about 600.

Hann'lin, Hanvilsat, stateman, lorn in Maine, 1809, practiced law from 1833 till 1851, having become meauwhile a member of the Legislature and Speaker of the House for three years. In 1843 he was elected to Congress by the Democrats, and there distinguished himself are a proposed of sleep and the statement of sleeps. In 1843 he herement House for three years. In 1843 he was elected to Congress by the Democrata, and there distinguished himself as an opponent of slavery. In 1848 he became a member of the U. S. Senste, and in 1856 left his party to enter the ranks of the newly-formed Republican opposition. In 1857 he was elected governor of his native State, reclected Senstor in 1857, and in 1860 he was elected Vice-President of the United States on the same ticket with Mr. Lincoln. He presided over the Senste with great dignity. In Jan., 1869, he was again sent to the Senste, and was reelected in 1875; was U. S. minister to Spain (1881). Died in 1891.

Hami'lin, in Konth Dakota, an E. O.; area, 545 aq. m. Intersected by Big Sloux river, and contains several lakes. Surface, undulating; timber scarce; soil, fertile. Products, wheat, oats, barley, corn, potatoes and other regetables. Cap. Castlewood. Pop. (1895) 5,225.

Hami'line University. (Educ.) A collegiate institution located at Hamiles, St. Paul, Minn, founded in 1854 by Bishop Hamiline, of the Methodist Church, at Red Wing, Minn., where it remained 15 years. It is open to both sexes, and offers two ourses of study, a scientific and a classical, each four years in length.

Hami'smond, James Hamilron, statesman; born at Newberry, S. C., Nov. 15, 1807. His father, Elisha H., was president of Dartmouth College, and there James graduated in 1825; admitted to the bar, and edited the Southern Times at Columbia. He was an ardent advocate of State rights, and organized the military force which South Carolina raised to resist the national government in 1833; member of Congress from South Carolina raised to resist the national government in 1833; member of Congress from South Carolina raised to resist the national government in 1833; member of Congress from South Carolina raised to resist the military force which South Carolina raised to resist the national government in 1833; member of Congress from South Carolina raised to resist the national government in 1833; member of Congress from South Carolin

cate of State rights, and organized the military force which South Carolina raised to resist the national government in 1833; member of Congress from South Carolina (1835-37); governor of that State (1842-44); elected to the U. S. Senate (1857). The reopening of the slave trade, which was then being agitated, he opposed in a public speech at Columbia (1858). On the secession of his State (1860) he retired from the Senate, though taking no part in the Civil War; became president of South Carolina College in 1861. Died Nov. 13, 1864.

president of South Carolina College in 1801. Died Nov. 13, 1804.

Hann'mond, William Alexander, physician, was born at Annapolis, Md., in 1828; graduated in medicine from the University of the City of New York (1848); entered the U.S. army as assistant surgeon in 1849, and remained in the service until 1860, when he resigned to take the chair of Anatomy and Physiology in the University of Maryland. Upon the outbreak of the Civil War he again proffered his services to the Federal government, accepting a low rank on the surgical staff; but by reason of his energy and executive ability he soon became surgeon-general of the army, with the rank of brigadier. He was court-martialed and dismissed in 1844, having, it was alleged, given offense to some of his superior officers; but in 1879 he was restored to his place and rank, at the direction of Congress, and placed on the retired list. On leaving the army he went to New York and became noted as a specialist in nervous diseases, being professor of that branch at Bellevine (1868-73) and the University of the City of New York (1873-82); was one of the founders of the New York Post-Graduate Medical School. Dr.

H. has written voluminously on medical subjects, and has also produced some notable novels and miscellaneous works, among which may be mentioned, Lai (1884); A Strong-Minded Woman (1885), and On the Susquehama (1887).

Hammenend, in Indiana, a city of Lake co., 20 m. S.S.E. of Chicago, on eight lines of R. Ra.; a manufacturing center, with steel spring, nail, flour, carriage, chemical, and syrup factories, large slaughter house, distillery, &c. Pop. (1887) about 11,200.

Hammp'dem, in Massachusetts, a post-town of Hampden co.; has important manufactures. Pop. (1895) 831.

Hammp'dem, ware, soldier and statesman, born at Columbia, S.C., in 1818, being the grandson of Gen. Wade H., of Revolutionary fame. He graduated at South Carolina College; served both in the Senate and House of Representatives of his State; entered the Confederate army at the beginning of the Civil War, took part in many engagements, was several times wounded and reached the rank of lieutenant-general. He was elected governor of South Carolina (1878); U. S. Senator (1879-01); and in 1893 was appointed U. S. Commissioner of Railways.

Hampfon, in South Curolina, a S. county; area, 1,141 sq. m. Bounded by Savannah river on the W. and Big Salkelaschie river on the E., and intersected by Coosawatchie river. Surface, level; soil, fertile. Prod., corn., cutton, sweet potatoes. Cyp. Hampton. Pop. (1890) 20,544.

Hampfou Hastitute. (Edsc.) A normal college for colored and Indian youths of both sexes, founded in

20,344. **Hampton In'stitute.** (Educ.) A normal college for colored and Indian youths of both sexes, founded in 1888 at Hampton, Va., which has performed excellent work in the free education of the classes named. It has at present 80 instructors and 800 pupils, and has at present 80 instructors and 800 pupils, and has productive funds amounting to \$460,000, with a total income in 1896 of \$143,455.

Hand, in South Dakuta, an E. cen. co; area, 1,435 eq. m. Surface, rolling, well watered by numerous small lakes and streams; soil, very fertile. Cap. Miller. Pop. (1896)

Hand'ball, n. (Games.) A game of ball, especially popular in Ireland, in which the ball is struck with the hand. It is played in a walled court.

popular in Ireland, in which the ball is struck with the hand. It is played in a walled court.

Hand dieapping, s. (Sports.) A term used in various games and sports to desute the placing of competitors on such a footing that all shall have, as nearly as possible, an equal chance of winning. Thus, in horse-racing, when the speed of one horse has been ascertained to be greatly superior to that of another, the swifter of the two, in a handleap race, is made to carry extra weight to an amount that shall be deemed at Misiant to reduce the season with the tot of the sufficient to reduce its speed to a level with that of its antagonist. Where the public performances of a horse have been exceptionally good, and when both speed and endurance are found to be of an unusually high character, the penalty inflicted in all future handscape and endurance are found to be of an unusually high character, the penalty inflicted in all future handicaps is very great, amounting sometimes to a weight many pounds alove that of very inferior competitors. Though principally pertaining to horse-racing, handicapping is resorted in many other sports. In games such as chess and draughts, certain "men" are allowed to the inferior player; in billiards, the better of two allows his autagonist a certain number of "points," so as to equalize or chandicap their respective games; at cricket, an eleven especially expert will sometimes play against twenty-two others, the competition being at times very close. In swimming and in pedestrianism, the inferior competitors are allowed a certain start; in yachting, the vessel of greater tonnage is handicapped with lesser ones, by allowing them extra time for the performance of the race. For instance, a fifty- and thirty-ton yacht start for a race, the former allowing the latter, say, five minutes. They start together, and the heavier yacht reaches home, any, three minutes ahead of the lighter; in that case, the lighter yacht's handicapping is the same, whether applied to field sports or home amusements; it is the art of endeavoring to equalize, by certain penalties, the good, the bad, and indifferent.

Hand's beroughs, in Mississippi City, and 3 m. from the Gulf of Mexico; has several lumber mills. Pop. (1890) 1,021.

Hank'y-pank'y, m. Jugglery; trickery. (Equiva-

Harrison co., 1 m. W. of Mississippi City, and 3 m. from the Gulf of Mexico; has several lumber mills. Pop. (1890) 1,021.

Ham's y-pamk'y, s. Jugglery; trickery. (Equivalent to hocus-pocua.)

Ham'may, Janzs, critic and novelist; born at Dumfries, Scotland, Feb. 17, 1827; entered the navy and was dismissed at eighteen by a court-martial sentence, afterward quashed as irregular. He early gave his attention to the study of genealogy, heraldry, the classics, and the literature of the eighteenth century; edited the Etisburgh Courant for some years; was subsequently British consul at Barcelona. He published novels, lectures, and essays; they include: Singleton Fonenog; Eustures, and essays; they include: Singleton Fonenog; Eustures, and essays; they include: Singleton Fonenog; Eustures. British consul at Barcelona. He published novels, lectures, and cessays; they include: Singleton Fontenoy; Extace Conyers; Lectures on Satire and Satirists; Essays from the Quarterly Review, &c. Died Jan. 3, 1873.

Hanns' Gord, in Tezza, a N.W. co., area, 910 sq. m. Drained by small creeks. Cap. Hansford. Pop. (1890)

Han'son, in South Dakota, a S.E. co.; area, 435 sq. m.

Han'son, in South Dakota, a S.E. co.; area, 435 sq. m.; intersected by Dakota river. Surface, undulating prairies soil, fertile. Cap. Alexandria. Pop. (1896) 4,606.

Han's-Han's, s. Self-disembowelment; a form of judicial suicide permitted in Japan in the case of nobles and army officers as an escape from the disgrace of ordinary execution. This method of suicide had long been practiced in Japan by members of the military class in case of dishonor, but for several centuries has been a recognized mode of capital punishment, and as such has become surrounded with elaborate ceremonies.

It is said, however, that within the past 200 years actual suicide rarely takes place, a friend or kinsman of the condemned person being present prepared to strike of his head with a sword-blow at, the moment he is about to plunge the dirk into his bowels. The execution takes place in the palace or garden of a daimio, and in the presence of official witnesses whose duty it is to ethat it is duly performed and to identify the head after decemination.

that it is duly performed and to identify the head after decapitation.

Har'bor Springs, in Michigon, a post-village, cap. of Emmet co., on G. R. and I. R. R., 3 miles N.W. of Petoskey; a summer resort, on Little Traverse Bay; has lumber milla, touth-pick and other factories, shipments of lumber, farm produce, and fish. Pop. (1894) 923.

Har'bors, Artiff'elal. (Espiscering.) Natural harbors are those found in the depressions of an irregular coast line, where nature has provided water of depth, area, suchorage, facility of entrance, and protection from winds and waves suitable for the shelter and mafety of vessels. Artificial harbors are those in which man has assisted nature by the aid of breakwaters and dock walls and the use of the dredge. Most of these lie near the mouths of rivers or inlets, where the tidal flow serves as an aid to the entrance of ships. Where the range of the tides is great (from 20 to 40 feet in various instances) vessels of deep draught can pase in and out at high tide, while wet docks are provided for their reception at low tide. Such is the case at Liverpool. London, Cardiff, Boulogne, Calais, Havre, and other European ports. (See Docks.) But usually the assistance to nature consists in works designed to produce a deep water channel over the "outer bar," such an obstruction being an inevitable and characteristic fraobstruction being an inevitable and characteristic fra



Fig. 2919.—CROSS SECTION OF A JETTY.

ture of all alluvial coasts. This effect cannot be produced in any one manner, conditions differing so widely that nearly every instance calls for some special treatment; and millions of dollars are often spent ineffectively through a misunderstanding of the conditions of nature. The state of affairs to be dealt with differs in almost every instance, there being often wide divergences in tidal and inland conditions. Thus, the tidal range may be large and the inner reservoir large, or in other cases small, with little fresh water drainage. Again, there may be little tidal fluctuation and a large interior bay, with little river water (as at Galveston). There may, again, be a strong river

Again, there may be little tidal fluctiniterior bay, with little river water flow, no water basin, and feeble water tides (as in the case of the Mississippi), or the same conditions with no tides (as at the mouth of the Danube and the Volga).

In selecting a plan of treatment, the engineer must take all the existing conditions into account, and choose that which seems to give the best hope of success—with the constant depressing consideration that the unstable waters may refuse to work as he designs and set at anight his best-laid plans. As a general rule two jettles are employed for the purpose of concentrating the force of the flow during ebb tide upon a limited section of the bar, and thus causing the water to scour a channel through it. Many instances of this kind might be cited in which a degree of success has been attained; but an axamination. in which a degree of success has been attained; but an examination of these instances shows that the function of the jetties is mainly to function of the jetties is mainly to protect the channel by arresting the littoral drift, while dredging must often come into play to maintain the desired depth. An advance of the jetties also becomes requisite as deposits of sand build the shore outdeposits of said build the snore out-ward, the bar being thus pushed bodily seaward without increasing its depth. The successful applica-tion of the jetty system by Captain Eads to the improvement of the South Pass of the Mississippi is too South Pass of the Mississippi is too well-known to need description. It will suffice to say that he secured JETTIES FOR DEED-adepth of channel of over thirty feet. KNING A CHANNEL Here there was little tidal action to deal with. There was none at the mouth of the Danber attained. From the

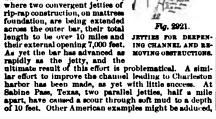
deal with. There was none at the mouth of the Danube, where a similar success has been attained. From the Sulina branch of this river piers or jetties were carried out from points on the shore 2,500 feet apart, the piers being respectively 5,850 and 4,310 feet long, and converging outwardly to a parallel section 600 feet apart. When this work was begun, in 1856, the depth of channel varied from 7 to 11 feet, with the hulls and masts of wrecks to guide the mariner to the deepest water. When it ended, in 1872, an effective depth of 20 feet was gained, and this has since been maintained. Another gained, and this has since been maintained. Another instance of jetty construction in tideless waters is that of the harbor of Libau, Bussia, on the Baltic sea, where

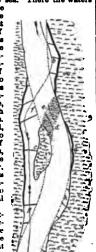
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parallel jettles were built 350 feet apart and the channel dredged to 20 feet. It shouled to 13 feet. The jettles were then extended and the channel again dredged, but still with uneastisfactory results. It was finally decided in 1887 to construct an outer harbor, as at Bougne, Madras, and many other places, by building two curved moles or breakwaters each over a mile in length. Another, interesting work of this character was that

chived moles or breakwaters each over a mile in length. Another interesting work of this character was that performed for the purpose of giving Rotterdam navigable communication with the sea. of the Rhine, Scheldt and Meuse combine and discharge into the North Sea, producing a bar at their mouth. The method of proceeding finally adopted was to cut a new channel for the Neiuwe Mass, one of the channels, through the bounding peninsula known as Hook of neal, through the bounding peninsula known as Hook of Holland, and to prolong it into deep water by diverging piers or jetties. These jetties, composed of fascine work with stone, extend into the North Ses with a total length of 2,800 meters. Though in a measure successful, constant dredging is required to maintain the desired depth of channel. In certain instances, as those at Bilbos, Spain, the month of the Columbia river, Oregon, &c., important results have been gained by the construction of a single jetty, so built as to obstruct the littoral drift.

AMERICAN JETTIES.—Interesting examples of jetty construc-tion in American waters may be here given. The most extensive operation of this kind is that undertaken at Galveston, Texas, where two convergent jetties of





as fast as constructed. This proved to be a cheap and rapid method, and these jettles, 600 feet apart, have yielded 18½ feet of water.

NEW HARBORS.—In certain localities where nature has provided none of the elements of a harbor, but

rapid memod, and these jettles, our teet apart, have yielded 18½ feet of water.

New Harbors.—In certain localities where nature has provided none of the elements of a harbor, but where the needs of commerce demand shelter for vessels, it has become necessary to create a harbor. Of these, one of the best-known examples is that of Port Said at the northern end of the Suez Caual. Here was a sandy coast and sea-bottom and a straight line of shore. The harbor was constructed by building two breakwaters, of which the longest extends outward from the shore 6,940 feet. It is constructed, near the shore, of rubble and concrete blocks, but in its outer portions entirely of large blocks of artificial stone, made of sand and hydraulic lime, and hardening with age. Each block weighs 25 tons. The area enclosed is about 450 acres, the average depth being only 13 or 14 feet except in the ship channel, where it is kept from 25 to 28 feet. A similar new-created harbor exists at the extremity of the canal, which has been constructed from Amsterdam and opens into the North Sea through a coast formed of sand dunes. The plers built out from the shore are 1,200 meters apart at their shore ends, but converge to an entrance of 260 meters, their length being 1,545 meters. The area of the harbor formed is 135 acres, with a depth of 25 to 28 feet. Here the foundation is of rip-rap stone, on which is built up a wall of concrete blocks.—Outer Harbors. At Cerea, Braxil, a open iron viaduct has been built from the unprotected shore across the breakers for a length of 2,400 feet, beyond which extends a curving breakwater for about 2,000 feet. The viaduct gives free passage to the littoral currents; and the outer cove, which is thus prevented from silting up, affords a considerable degree of protection to vessels. A similar work has been constructed at Rosslare, Ireland, with successful results. In many instances, as in Dover, Alexandria, Algiera, &c., a bight in the coast has been utilized, by the aid of breakwater construction, to form harbo

gale; Rockland, 33 feet deep near the city; Freuchman's Bay, which is deep and assily accessible; Penobscot Bay, which extends inwards 28 miles; Bangor; Linekin's Bay, with a least depth of 30 feet, but used only as a harbor of refuge; Wiscasset, one of the best harbors in the country; Bath, carrying 5 fathons for 12 miles up the Kennebec river; Casco Bay, 18 miles long and 12 wide, with numerous islands; Portland, which carries 16 feet up to the wharves; Richmond Island Harbor, an excellent harbor of refuge; and Winter Harbor, 52 miles below Saco. Portsmouth Harbor, N. H., formed by the lower reaches of the Piscatagua river, carries 6 fathons up to the city, and is the site of an important naval station—the Portsmouth Harbor, N. H., formed by the lower reaches of the Piscatagua river, carries 6 fathons up to the city, and is the site of an important naval station—the Portsmouth Navy Yard. Newburyport Harbor is obstructed by a bar with only 6 feet of water—which is being widened. Rockport Harbor, with 8 fathons in the liner and 11 in the outer roads, is the best harbor of refuge on the northern shore of Cape Ann. Massachusette Bay, with its width of 38 miles between Cape Ann and Cape Cod, has the five important harbors of Bocton, Salem, Gloucester, Plymouth and Provincetown. Of these, that of Boston has 21 feet through the main channel at any tide, with 94 feet mean rise and fall of tide. The harbor of Provincetown is one of the finest on the coast; it having good holding ground, plenty of water and (usually) freedom from ice, while easy of access. Sandwich Harbor, in the southwest part of Cape Cod Bay, is difficult to enter, but is of interest as the entrance to the projected canal from Cape Cod Bay to Buzzard's Bay. On Vineyard Sound are three good harbors woods 'Hole, Edgarrown and Vineyard Haven. Buzzard's Bay. On Vineyard Sound are three growth and the projected canal from Cape Cod Bay to Buzzard's Bay. On Vineyard Sound are three growth and the service of the Test and the first of the bash of the outer ha

none of them with more than 11 feet of water over the bar.

GULF COAST.—The harbor of Key West has several channels of entrance, of which the Main Ship Channel has 23 feet of water and the S. W. Channel 30 feet. Within there is good anchorage for the largest vessels. The Dry Tortugas, a group of islets at the S. W. extremity of the Florida reefs, form a deep and wide harbor, offering excellent anchorage. Tampa Bay is an estuary 6 to 10 miles wide, 22 miles deep, with anchorage in 4 to 5 fathoms. Appalachicola has a depth of 15 feet over the bar, though there is only 4 feet at the town. Just north of Cape San Blas lies St. Joseph's Bay, a large, deep and commodious harbor, easy of access, offering excellent anchorage, and capable of being entered in a gale. The entrance is a mile wide, with 19 feet of water. St. Andrew's Bay, with 3 feet, and Penssoola Bay, with 19 feet, follow, and are succeeded by Mobile Bay, an estnary 30 miles long, with Bon Secours Bay, 10 miles long and 10 wide, just within its entrance; 18 feet can be carried through a dredged channel to the city of Mobile. New Orleans has a channel to the city of Mobile. New Orleans has a channel 26 feet deep leading between Captain Eads's famous jetties in the South Pass, but with less depth in the other passes. West of the mouth of the Mississippi lies Barataria Bay, an extensive body of water, once the harboring place of pirates. Further west are Tainballer and Atchafalaya bays, with no great depths of water,

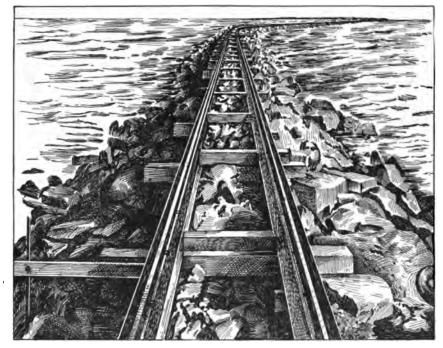


Fig. 2922.—ONE OF THE GALVESTON JETTIES-LOOKING SHOREWARD.

but the above are among the most notable. Various methods of constructing the jetties are employed, in some cases large of concrete being sunk for the foundation and built upon by concrete blucks. In others riprap, or loose stones, are used for foundation and superstructure. At the mouth of the B. was river, Texas, the jetties were made of mattresses loaded with sand and stone, which were lowered by ropes from a trestle

Harbors of the United States. These barbors may, for convenience, be embraced in four divisions: the Atlantic seaboard, the Gulf coast, the Pacific coast, and the Great Lakes.

ATLANTIC.—The coast of Maine is amply provided with harbors, including that of Calais, with 8 feet of water over bar; Eastport, whose harbor is free from ice during the winter, but whose roads are not tenable in a northeast.

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and the harbor of Galveston, Texas, which has 11 feet on the outer bar and 9½ feet at the city wharves. Brazos Santiague has 21 feet at its wharves, but only 6 feet can be carried over its bar. Pacific Coast.—This coast is not remarkable for the

feet can be carried over its bar.

Pacific Coast.—This coast is not remarkable for the number or extent of its harbors, though those of Puget Sound and San Francisco are of unsurpassed excellence. Of the Puget Sound harbors, the first to present itself is Port Townsend, with 5 to 9 fathoms close up to the shores. The harbor of Stellacoom has 6 to 15 fathoms near the town, and Seattle presents deep anchorage off its wharves. Oregon's only harbor is that at the mouth of the Columbia river, whose bar sometimes presents 27 feet of water, but is a of variable depth. Inside, to the city of Portland. Crescent City harbor, California, is a dangerous one on account of its many shouls and rocks, though 25 feet anchorage can be found inside. Shallower harbors are those of Trinidad Bay, Mendocino, Bonicia, Drake's Bay, and Vallejo. The harbor of San Francisco is one of the finest in the world; 23 feet can be carried over the bar and to nearly all parts of the bay. Further south are the harbors of Santa Cruz, San Luis Obispo, Santa Barbara, and San Diego Bay, the lastnamed the best harbor on the coast after that of San Francisco. It entrance is over a bar 21 feet deep, the harbor within being 6 miles long and in its broadest part 2 miles wide.

Lakes.—On the Great Lakes may be named the

harbor within being 8 miles long and in its broadest part 2 miles wide.

Lakes.—On the Great Lakes may be named the harbors of Grand Marais, Grand Island, Copper Harbor, Portage, Superior, Naginaw, Presque Island, &c.—Of the American harbors named, those in which nature has

after the battle of Missionary Ridge, but declined in favor of Gen. Joseph E. Johnston; near the close of the war was in command of the military department comprising the States of South Carolina, Georgia and Florida. With an inferior force, he conducted the defence of Savannah against the army of Sherman, and successfully evacuated that city when it became untenable. Died in 1873.

successfully evacuated that city when it became untensule. Died in 1873.

\*\*Has'deman\*\*, in Teras, a N. co.; area, 1,180 sq. m. Intersected by Pease river. Surface, undulating; soid, fertile, sandy loam; timber scarce. Products, wheat, oata, corn, cotton. Cap. Quanah. Pop. (1890) 3,804.

\*\*Has'demburg\*\*, in New York, a post-town of Ulster cu. Pop. (1897) 1816.

\*\*Has'deesty\*, in Oklahoma, a post-village of Beaver co. Has'die, James Allen, soldier, was born in New York (ity on May 5, 1823; graduated at West Point (1843) and served there as instructor, &c., until 1861. During the early part of the Civil War he did staff duty; was made brigadier-general of volunteers in 1862; assistant adjutant-general, U.S.A., in 1863: inspector-general in 1864, and received the brevet ranks of brigadier- and major-general, U.S.A., in 1865. He subsequently served for a time as Assistant Secretary of War and in various special duties. Died Dec. 14, 1876.

\*\*Has'd'ang, in Soath Dokota, a N.W. co.; area, 1,475 sq. m. Intersected by Little Missouri river and South fork of Grand river. Unorganized. Pop. (1895) 466.

\*\*Has'd'apan, a. (Geol.) A stratum of hardened clay, sand or gravel at a depth of from one to three feet under the soft soil, for which it seems to be a foundation.—Hence, a soild basis for anything; the lowest

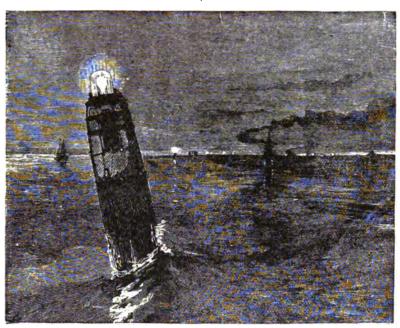


Fig. 2923.—ELECTRIC LIGHTS IN NEW YORK HARBOR.

made the best provision for the demands of commerce are Portland, New York, Norfolk, Port Royal, San Francisco, and Puget Sound. Of five natural harbors in the track of commerce, in foreign lands, may be named those of Queenstown, Ireland; Rio de Janeiro, Brazil; and King George's Sound and Princess Royal Harbor, Australia. For examples of harbors in which art has added to the resources of nature, see Harbors, Arti-

sided to the resources of nature, see Harbors, Artificial.

Harcouft, Sir William George Granville Venables Vernon, British statesnan, was born Oct. 14, 1827; graduated with high distinction at Trinity College, Cambridge; called to the bar (1854), and became Q. C. (1866); appointed professor of International Law at Cambridge (1869); was solicitor-general (1873-74); returned to Parliament for Oxford (1868) and for Derby (1865-92). In Glastone's cabinet of 1880 he was Secretary of State for the Home Department; was Chancellor of the Exchequer during the brief period of Liberal government in 1886, and was appointed to the same office in 1892, retiring in 1895. He has contributed to the Salurday Review and London Times under the penname of Historicus, and is now (1897) the leader of the Liberal party in the English Parliament.

Hardee', William Joseph, soldier, was born in Camden co., Ga., in 1815; graduated at West Point in 1838; served in the Florids and Mexican wars; was twice brevetted for gallant and meritorious service in the latter; in 1855 published his work on Tactics; was commandant of cadets at West Point from 1856 to 1860. At the breaking out of the Civil War he was made successively brigadier-, major-, and lieutenant-general in the Confederate army; commanded a corps at Shiloh, Perryville, Stone River, and later battles, with distinction; was offered the command of Gen. Bragg's army

possible line or point to be reached in a descent; as, "prices are down to hardpan."

Har'dy, Arriver Sherreurne, author and mathematician, was born at Andover, Mass., August 13, 1847; educated at Phillips Academy, West Point (1868), and Paris: entered the army as second-lieutenant in 3rd Artillery, but was honorably discharged in 1870; has held several professorship, and received the degree of Ph.D. from Amherst. He has written, among other works: Elements of Quaternious: a translation from the French of Geometrical Interpretations of Imaginary Quantities; and several novels, including: But Yet a Woman; Pusse Rose, &c.

Hardy, Thomas, novelist; born in Dorsethire, England, June 2. 1840; educated at King's College, London; studied architecture under Arthur Bloomfield. Many of his novels depict the rustic life of the West of England and have been widely read. They include: A Pair of Blue Eyes; Fur From the Madding Oroud; Return of the Natice: Tess of the D'Urbervilles. &c.; also published The Three Wuyfarers, a drama (1893). His novels are remarkable for ingenuity of plot, occasional fine tragic power, and excellent knowledge of feminine character.

character.

Hare, Augustus John Cuthbert, English author, born at Rome, Italy, March 13, 1834; educated at Harrow and at University College, Oxford. His most notable works deal with Italian subjects.

Hare, Robert, an eminent chemist, was born in Philadelphia in 1781; was the inventor of the compound hlow-pipe and the calorimeter, the latter a galvanic apparatus susceptible of producing intense heat. From 1818 till 1848 he filled the chair of chemistry in the medical department of the University of Pennsylvania. He invented several other scientific apparatus, was a

member of various learned societies, and wrote a large number of scientific papers, and several books, including Chemical Apparatus and Manipulations. In his later life he investigated Spiritualism, in which he became a believer, publishing the results of his investigations in Spiritual Manipulations Scientifically Demonstrated. Died May 15, 1858.

believer, publishing the results of his investigations in Spiritual Manipulations Scientifically Demonstrated. Died May 15, 1858.

Hare'foot, n. (Ornith.) A name for the Ptarmigan (Lagopus scoticus), the foot of which has a superficial resemblance to that of a hare.
(Bot.) The same as Hark's-roor (q.v.).

Hare's'-foot, n. (Bot.) A tropical American tree (Ochroma lagopus), so called from a cottony substance which comes from the seed-pods, covering them like the fur on a hare's foot.—A species of clover (Trifolium arrense), called also rabbit-foot clover and slowe-clover.—Hare's-foot forn (Davallia Cumuriensis), resembling a hare's foot in its scaly, creeping rhizone.

Hare'graves, Edmund Hammon, discover of the Australian gold fields, was born at Gosport, England in 1815. At the age of 18 he became a "squatter" in Australia, and in 1849 sailed from Port Jackson for San Francisco, went to the California diggings, and while working there was so struck with the resemblance of the geological structure of the country to that of Australia, that upon his return he made explorations which resulted in discovery of what have since been proved to be among the most productive of gold fields. The Legislative Council of New South Wales awarded him a sum of \$50,000 for his discovery, an account of which he published in 1855 under the title of Australia and its Gold Fields Died Oct. 1, 1891.

Hark'acess. Willlan, astronomer, born in Ecclefechan, Dumfriesshire, Scotland, Dec. 17, 1837; graduated at Ruchester (N.Y.) University (1858); appointed professor of mathematics, U. S. Navy (1863). He made a voyage in the monitor Monadoock around Cape Horn for the purpose of studying the phenomena of magnetium in the southern hemisphere, the results obtained in this expedition being published in the Smilksonian Contributions to Knowledge. He was a member of the commission on the transit of Venus (1871), and was in command of the expedition to Tasmania to observe the summand of the expedition to Tasmania to observe the

transit in 1874.

trainsit in 1874.

Har'ism., John Marshall, jurist, was born in Boyle co., Ky., June 1, 1853; graduated from Center College (1850) and from the law department of Transplvanis University (1853); became a judge in Franklin co. Ky.; was colonel of the 10th Kentucky infantry (Federal) during the Civil War; attorney general of Kentucky (1863-69) and an unsuccessful candidate for Governor of that State in 1871 and 1875; was appointed by President Hayes, associate justice of the U. S. Supreme Court, on Nov. 29, 1877. In 1892 he served as an arbitrator for the U. S. before the Bering Sea tribunal.

an arbitrator for the U. S. before the Bering Sea tribunal.

Harlenn, in Nebraska, a S. co.; area, 576 sq. m. Intersected by Republican river. Surface, undulating; timber in medium quantity; soil, fertile, good grazing land. Cip. Alma. Pop. (1890) 8,158.

Harlenn Ship Camal. (Engineering.) A widening and deepening of Harlem River and Spuyten Duyvil creek, New York City, into a canal, which was completed and opened to navigation in June, 1895. The creek was about 2 feet deep. The canal at present is 9 feet deep and 150 feet wide. It is proposed to make it 350 feet wide and 18 feet deep, thus providing ship navigation between the North and East rivers, and adding largely to the dock-room of New York. See Canal.

Harmen in Colorado, a post-town of Arasahoe co., about 5 miles S. of Denver. Pop. (1897) 810.

Harmen in the case of the two superior maxillary bones.

bones.

(Astron.) An asteroid, the fortieth found; discovered by Goldschmidt on March 1, 1856.

Harmon'iea, s. (Mss.) The mouth-organ: a small wind-instrument having at the edge a series of holes by which the breath, either inspired or expired, is conducted to a set of free reeds like those of an accordeon, whose vibration produces the notes. The fute H. has a mouth-piece at the end, instead of holes at the side. The name is also given to other musical instruments. (MscA.) Somzee's H. is a safety device for use in mines to show the presence of fire-damp, by means of a musical note given out from a lamp chimney, which is silent when the air that feeds the flame is pure.

Harmon'icom. s. [Gr. karmonikos.] (Mss.) A mouth-organ, or Harmonica (q. v.).—An orchestrion (q. v.).—An orchestrion

mouth-organ, or HARMONICA (q. v.).—An ORCHESTRION (q. v.)

(Acons.) An apparatus in which a fiame of hydrogen burning in a glass tube, sends off musical sounds.

(Chem.) (Semical H.:—A musical instrument in which tones are produced by the burning of gas in tubes of different sizes; a pyrophone.

Har'ney, William Skley, soldier, born in Louisiana in 1798; second lieutenant of infantry U. S. Army (1818); paymaster, with rank of major (1833); served in the Seminole War, also in the Mexican War, attaining the rank of brigadjer-general. During the early

in the Seminole War, also in the Mexican War, attaining the rank of brigadier-general. During the early period of the Civil War he commanded in Missouri; retired from active service in 1863; was brevetted major-general in 1865. Died May 9, 1889.

Harmey, in Oregon, a S. E. co.; area, 10,600 sq. m. Rivers. Silvies, Middle and South Forks of Malheur river, Silvier creek and numerous smaller streams. Surface, hills and valleys, timber on the hills; soil, good black loam. Products, wheat, oats, rye and barley. Stock raising is a leading industry. Cap. Harney. Pop. (1897) about 3,000.

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the dialect and imaginative conceptions of the negroot the South.

Harris, Thomas Lake, reformer, born at Fenny Stratford, England, May 15, 1823; was taken to the U. S. in childhood, where he became a Universalist minister and afterward a firm believer in Spiritualism, upon which he lectured from 1850 to 1855. He subsequently founded a religious association which he called the Bretherhood of the New Life, whose chief establishment was at Brocton, Chautauqua co, N. Y., their belief combining the Sweleuborgian theology, Platonic philosophy, and some of the doctrines of Fourier. For many years past he has resided in California. He has published numerous poetical and prose works, including God's Breath is Mas. H's rules of conduct for the Brotherhood, and his treatment of the Oliphants and God's Breath is Man. H's rules of conduct for the Brotherhood, and his treatment of the Oliphants and others of his converts, have been very severely criti-cised, and charges of inhumanity and immorality have

cised, and charges of inhumanity and immorality have been brought against him.

Haffls, William Torr, A.M., LL.D., educator, born at Killingly, Conn., Sept. 10, 1835; studied at Yale Colege; subsequently taught in St. Louis, Mo., becoming superintendent of public schools there (1867); one of the founders of the Philosophical Society of St. Louis, and founder of the Journal of Speculative Philosophy (1867), which he has since edited, it being the first journal of its kind in the English language. He was appointed U. S. Commissioner of Education (1889), as a position which he still holds (1887). Has contributed to leading periodicals, and is the author of: The Logic of Hagel; The Sprintal Sense of Dante's Dictina Commedia, &c.

leading periodicals, and is the author of: The Logic of Hopel; The Spiritual Sense of Dante's Dicina Commedia, &c.

Haffis, in Minnesota, a post-village of Chisago co., on St. Paul & Duluth R. R. Pop. (1895) 681.

Haffison, Frederick, author; born in London, Oct. 18, 1831; admitted to the bar (1868), member of the commission upon trades-unions (1867-69), and secretary to the royal commission for the digest of the law (1869-70), also professor of Jurisprudence and International Law at Lincoln's Inu Hall. He was one of the founders of the positive school in England, in 1870, and is a Liberal and Home Ruler in politics. His works include: The Menung of History; Order and Progress; Olicer Cromisell, &c., and he translated the second volume of Comte's Politique Positive. He is a trenchant and brilliant writer.

Haffisons, Thomas Alexander, painter; born in Philadelphia, Pa., Jan. 16, 1863; pupil of Gérome, Paris, For his Le Cripuscule, a marine, he received a prize of \$2,500 from the American Art Association in 1887. This canvas is now in the Museum of Fine Arts, St. Louis, Mo. Other works are. The Amaleurs; In Arcady; Casiles in Spain, &c. His studio in in Paris.

m. N. of I mills, sash (1894) 992.

(1894) 992.

Harte, Francis Bret, novelist and peet; born at Albany, N. Y., Aug. 25, 1839. He went to California (1856), engaged in digging gold, teaching school, and in the express business; entered the office of The Golden Era as a type-setter, and became editor of a literary weekly, The Californian; secretary of the U. S. tranch mint, in Nan Francisco (1864); removed to New York city (1871); was appointed U. S. consul at Crefeld, Germany (1878), and filled a similar office in Glasgow from 1880 to 1885; has since resided in London. He was the founder of the Overland Monthly, and it was to this magazine that he contributed his famous stories:

The Luck of Boaring Camp, and the Outcast of Poler The Luck of Roaring Camp, and the Outcasts of Poler Flut; also his popular poem, The Heathen Chines. Among his novels are. Echoss of the Prot Hills; Tales of the Argonauts; On the Frontier; A Phyllis of the

of the Argonomus; On the Sierras, &c.

Har Ington, Spencer Compton Cavenden, Manquis or (now Duke of Devonshire), stateman; born July 23, 1833; graduated at Trinity College, Cambridge (1864). He was returned to Parliament for North Landers of the College of the State of College of the State of College of the College of the State of College of the State of College of the College of the State of the State of College (1854). He was returned to Parliament for North Lancashire in 1857. In the subsequent years he held an umber of important positions; lost his seat for North Lancashire (1868); was member for New Radnor (1869) having previously been appointed Postmaster-General in Mr. Gledstone's cablinet; was chief secretary for Ireland (1871); retired with his party (1874); became a leader of the Liberal party in the House of Commons, succeeding Mr. Gledstone; lord rector of the University of Edinburgh (1879); member of Parliament for Northeast Lancashire (1880), and the same year Secretary of State for India; Secretary of State for Salisbury's government, and became a leader of the Liberal Unionists, but declined becoming a member of the cabinet; succeeded to his title and estates of his father, the Duke of Devonshire, on the latter's death, Dec. 21, 1891

father, the Duke of Devonshire, on the latter's death, Dec. 21, 1891

Hart'laub, Carl Johann Gustav, M.D., ornithologist; born at Bremen, Germany, Nov. 8, 1815; educated at the Universities of Bonn, Berlin, and Göttingen. His attention was largely given to the geographical distribution of birds, and his works treating of the birds of Africa, Madagascar, and Polynesia, are the most important. important.

important.

\*\*Hart'ley, Sir Charles Augustus, civil engineer, was born in England, in 1825; he served on many important public works, and is the author of: The Delias of the Danishe; Public Works of the United States and Canada; and Inland Navigation in Europe.

Harfer, William Raintz, educator and author, born at New Milliam Porz, author and clergyman; at A. 19 (2000), and the property of the property

poems.

Hart'suff, Grosge Lucas, soldier; born at Tyre, Seneca co., N. Y., May 22, 1830; graduated at the U. S. Military Academy; entered the army as brevet second-leutenant of artillery, (July 1, 1852), and attained the rank of brigadier-general of volunteers, (1862); subsequently made major-general of volunteers, and held a command in front of Petersburg, taking charge of that city on its capture. He was mustered out of volunteer service in August, 1865, and resumed the position he had formerly held as assistant adjutant-general, with the rank of lieutenant-colonel. Was retired from artive service with the full rank of major-general. Died May 18, 1874.

Hasta ville, in Tennesses, a post-village, cap. of

active service with the full rank of majorgeneral. Died May 16, 1874.

Harta/ville, in Tennessee, a post-village, cap. of Tronscale co., 42 m. E.N.E. of Nashville, on M. & E. T. C. B.R.; has a grist nill and planing mills. Pop. 654.

Harta, Charles Ferderick, naturalist, was born in Nova Scotia in 1838; became in 1862 a pupil of Prof. Agassis. He had already made very satisfactory progress in the study of geology and palsontology, and for the three years which followed so devoted himself to the study of physical science under his teacher, that when Prof. Agassis undertook his voyage of exploration to Braxil, he selected H. as his first assistant. Arrived in that country, the latter was detached, with two or three assistants, to explore Southern Brazil, while Agassis and the other members of the corps were travering the valley of the Amazons. On his return his report of the region he had explored was so able as to give him at once a high reputation among the most advanced of physical scientists. H. was soon afterward elected professor of geology and physical geography at Cornell University, Ithaca, N. Y. During his vacations he made other journeys to Brazil, wholishing Geology and Physical Commission of Brazil, and died at Rio Janeiro, March 18, 1878.

Hart'well, in Ohio, a post-village of Hamilton co...

18, 1878.

\*\*Mart'well, in Ohio, a post-village of Hamilton co., 11 m. N. of Cincinnati, on C., H. & D. and C., C., C. & St. L. R. Rs. Pop. (1880) 1,507.

\*\*Har'ward, in Nebraska, a city of Clay co., 81 m. S. W. of Lincoln, on B. & M. and F., E. & M. V. R. Rs.; has large shipments of grain and live stock. Pop. (1890) 1078.

1.076. **Har/west Moon.** (Aeros.) The full moon which occurs about the period of the autumnal equinox. It receives its name from the fact that at this time the moon rises for several nights before and after the full at nearly the same hour, thus favoring the work of the farmer during the harvest. Through certain astronomical causes, connected with the approximate coin-

cidence of the ecliptic, or plane of the earth's orbit, with quator at that period, the moun's orbit becomes y coincident with the horizon at the close of the day, the consequence being that for several days its hour of rising is nearly the same, though its north or acuth position in the horizon varies considerably. This phenomenon is most striking on the Arctic circle, is noticeable in all high intitudes, and disappears at the

inoticeable in all high initiudes, and disappears at the equator.

Has'vey, Sir Groror, a British historical painter, born 1805, succeeded Sir John Watson Gordon as president of the Royal Scottesh Academy in 1844. The following are examples of his best manner: The Battle of Drumclog (1836); Shabsperre Brought Before Sir Thomas Lacy on a Charge of Deer-stealing (1837); The Covenanter's Communion (1839); A Highland Feneral (1840); John Busyan and his Danghter Sciling Laces at the Door of Redford Gaol (1857); and Dusen Revealing the New World to Columbus, now in the Scottish National Gallery. Died in 1876. Gallery

1578

the New World to Columbus, now in the Scottish National Gallery. Died in 1876.

\*\*Hasvey\*, in Kassas, a S. cen. co.; area, 540 sq. m. It is intersected by Little Arkansas river. Surface, nearly all level prairie; soil, fertile. Prochects, corn, broom corn, wheat and oats. Cap. Newton. Pop. (1885) 16,250.

\*\*Hass\*\* kell\*, in Kassas, a S. W. co.; area, 576 sq. m. It is intersected by Cimarron river. Surface, gently rolling; soil, sandy loam, very rich; no timber. Products, rye, cats, rice, corn; stock raising. Cap. Santa Yé. Pop. (1885) 1685.

\*\*Hass\*\* kell\*, in Tazos, a N. co.; area, 900 sq. m. It is intersected by Brazos river and also drained by Clear Fork of that river. Surface, slightly undulating; soil, sandy loam and black and, well watered and fertile. There is building-stone of fine quality, both limestone and sandstone. Cap. Haskell. Pop. (1890), 1,685.

\*\*A post-town, cap. of Haskell. Pop. (1890), 1,685.

\*\*A post-town, cap. of Haskell. Co., 45 m. S.W. of Seymour. Pop. (1897) about 960.

\*\*Hass\*\* finags., DANIL HARTMAN, lawyer and statesman, was born of Scotch-Irish parentage in Clinton co., Pa., where his father was a small farner, on Feb. 29, 1849. He taught a country school from 1863 to 1866, and in the latter year was elected principal of the high school as Bellefonte, where he has since resided. He held this appointment eight years; in 1875 was admitted to the bar and at once became a leader in law and politics, serving as burgess of Bellefonte. In 1877 he joined the National Guard as paymester of the 5th regiment; in July of that year served on Gen. Beaver's staff (Second Division) during the railroad riots. He became lieutenant-colonel of the 5th regiment in March, 1878; assistant adjutant-general of the Second Brigade in June, 1883; colonel, in March, 1884, reeigning the latter commission in Jan., 1887, to become Adjutant-General of Penna. under Gov. Beaver. Gen. H.'s memorable services on the occasion of the Johnstown flood of May 31, 1889, made him a popular hero, and he came within a few vot nor of Pennsylvania at the Republican convention of 1890. Four years later he was nominated by acclamation, and elected governor by a plurality of 241,837 in November following. Among the most popular acts of his administration were the vetoing, in the summer of 1897, of certain questionable bills that had been passed by the legislature then adjourned, and his demand for an itemized statement of certain expense accounts that had been presented in bulk and passed by the legislative committees.

Hastings. in Nebraska, a city, cap. of Adams co., 96 m. W. of Lincoln, on B. & M. and 3 other railroads; has beet-sugar factory, pickle factory, bridge works and brick yards. Seat of Hastings College (Presbyterian). Pop. (1800) 13,564.

yards. Seat (1890) 13,584.

(1801) 13,584.

Hastings, in Pennsylvania, a post-borough of Cambria co., 114 n. E. of Pittsburg, on Penna. R.R.; has coal mines. Pop. (1890) 1,070.

Hastings, John Pourse, soldier; born in Oswego, N. Y., January 9, 1822; graduated from West Point, and appointed brevet second-lieutenant of infantry, July 1, 1845; served with distinction in the Mexican War, and for gallantry received the brevet of first-lieutenant and captain, also served in exclusion and on frontier duty. captain; also served in garrison and on frontier duty; was appointed brigadier-general of volunteers (1861); commanded a cavalry brigade in the Shenaudoah Valley commanded a cavary origina, engaged at second battle of Bull Run, &c.; commanded various districts in the South; for gallant services was successively brevetted from major to major-general of volunteers; became colonel of Second U. S. Cavalry in 1881. Retired Jan.

colone of Second U. S. Cavary in 1881. Retired Jan. 9, 1886.

Hat'tiesburg, in Mississippi, a post-town of Perry co., 86 m. S. W. of Meridian, on G. & S. I. and N. O. & N. E. R.Rs. Pop. (1890) 1,172.

Hat'tom, John Lipthor, musician and composer, born in Liverpool, Eng., 1899; was self-taught in his profession; removed to London in 1832, where he began a successful career as composer of music, pianist and conductor. He twice visited the U. S. (1848 and 1867) on a concert tour. His works include numerous songs and part-songs, inclidental music for many of Shakespeare's plays, &c. His operas include: Puscal Bruno; Rose, or Lore's Ranson, &c. Died Sept. 20, 1886.

Hauck, Minnie, opera singer, born in New York city, Nov. 16, 1852; first appeared in New Orleans as a concert singer about 1855; subsequently studied under Evrani in New York, and made her début in America, in the opera of La Sommambula, in 1868. She has since appeared, with unbroken success, in all the European

in the opera of La Somanbala, in 1868. She has since appeared, with unbroken success, in all the European capitals. She has at her command the English, German, French, Italian and Hungarian languages, and sings in all. Her most successful rôles are: Carmea, in Bizat's opera of that name; and Catherine, in Goeta's

Toming of the Shrew. Her husband is the Chevalier de Hesse-Wartegg.

Haungh'ville, in Isdiana, a post-town of Perry co., 2 m. N. W. of Indianapolis. Has malleable iron works. Pop. (1890) 2,144.

Haungh, Ileman, engineer; born in Philadelphia, Pa., March 2i, 1817; graduated at West Point, July I, 1835, but in September of that year resigned from the army and began private practice as an engineer; was professor of Civil Engineering and Mathematics in Pennsylvania College (1844-47); appointed principal assistant engineer of the Pennsylvania Bailroad, and finally became chief engineer and director of that company; was engaged for many years as chief engineer and contractor on the Hoosac Tunnel, Mass. Served in the Civil War, as aide to General McDowell, with the rank of colonel; was chief of burean of U. S. military railways, in charge of construction and operation; declined the appointment of brigadier-general, U. S. volunteera. He served as general manager and chief engineer of several railroads.

Hampt, Lewis Muhlensuna, civil engineer; born at Gettysburg, Pa. March 21, 1844; educated at Lawrence Scientific School, Harvard, and at West Point, where he graduated in 1867; served on the U. S. Lake Survey (1867-99); resigned from the U. S. Coast and Geodetic Survey; resigned his professorish (1892) in order to engage in civil and maritime engineering practice. He has published Esquiseering Specifications and Contracts; The Topographer, and The American Engineering Register, also many papers on rivers and harbors, and has devised a method for improving harbors by the use of vertical deflectors for currents, and reaction breakwaters for littoral drift.

Haur'seer, Kapper, a youth whose strange history excited the attention of all Europe, and of Germany in

excited the attention of all Europe, and of Germany in excited the attention of all Europe, and of Germany in particular, in the early part of the nineteenth century. He was first observed on May 26, 1828, in Nuremberg, as a youth of about 16, leaning against a wall in the market place, and evidently in distress. On being spoken to he was able to utter only a few words, but bore in his hand a letter addressed to an officer in the town, apparently from an illiterate workman, who said the boy had been left at his door as an infant, and that he had brought him up in strict seclusion. In it was another letter, in the same hand, but pretending to be from the boy's mother, saving that he was born in 1812. another letter, in the same hand, but pretending to be from the boy's mother, saying that he was born in 1812, and that his father was a soldier. The boy's mind was found to be totally blank, not from idiocy, but from utter lack of education or life experience. He acted like a little child, would eat nothing but bread and water, and seemed painfully affected by the sights and sounds around him. Afterward, when he had become somewhat taught, he gave the following account of his life: All his life had been spent in a hole or cage, so small that he could rest only in a sitting position. He had never seen the sun nor heard the sounds of the outer world. Food was brought him during sleep, and his time was spent in playing with two toy horses. He was attended by a man who at last taught him to write a little and to stand and walk. Finally the man brought him to Nuremberg, by night, placed the letter in his time was spent in playing with two toy horses. He was attended by a man who at last taught him to write a little and to stand and walk. Finally the man brought him to Nuremberg, by hight, placed the letter in his hand, and disappeared. The town authorities decided to adopt this strange being so mysteriously brought them. About fifteen months afterward he was found bleeding from a wound in the forehead, which he said had been given him by "the man," who, however, could not be found. Attempts were made to educate the boy, who at first showed a thirst for knowledge, a retentive memory, and striking quickness in acquisition, but whose mind soon seemed to reach its utmost measure of development. Many came to see him, among them the eccentric Lord Stanhope, who took a fancy for him and adopted him. He was sent to Ausbach to be educated, and was being gradually forgotten by the world, when, on Dec. 14. 1833, he was found bleeding from a wound in the side, which he said "the man" had given him. Three days later he died. Nothing more is known about him. Many regarded him as an impostor and said that he died from suicide. Others looked on him as the victim of a crime, and believed him to be of noble birth. His story remains one of the strange mysteries of human history.

Haven, Erastic Otts, ecclesiastic; born at Boston, Mass., Nov. 1, 1820; graduated at Wesleyan University, of the Methodist Episcopal church in 1848; was appointed to the chair of Latin in the University of the Methodist Episcopal church in 1848; was appointed to the chair of Latin in the University of the Methodist Episcopal church in 1848; was appointed to the chair of Latin in the University of the Methodist Episcopal church in 1848; was appointed to the chair of Latin in the University (1874), and in 1880 was made bishop; Died in 1881.

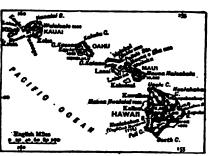
Haven, Gilbert, ecclesiastic; born at Maiden, Mass., Sent 21 1821 craninated at Wesleyan University.

III.; was chancellor of the Syracuse University (1874), and in 1880 was made bishop. Died in 1881.

Havem, Gilbert, ecclesiastic; born at Maldon, Mass., Sopt. 21, 1821; graduated at Wesleyan University, (1846); appointed professor in Amenia Seminary, N. and from 1848 to 1851 was principal of that institution; member of the New England Conference of the Metho dist Episcopal Church, and became noted as a preacher, lecturer, and writer; served in the Civil War as chaplain of the 8th Massachusetts regiment of volunteers. At the close of the war he was sent on a special mission among the Southern freedmen; from 1867 to 1872, was

editor of Zion's Herald; was then elected bishop, with residence at Atlanta, Ga. He was the author of The Pllyrim's Wellet; Own Next-door Neighbor, and several volumes of sermona. Died Jan. 8, 1080.

His washi (Abe-d'yii), Hawaniiam (Abe-wi'psis) Hamaniam, or Sann'wich Islama. (Geog. and Polit.) A small group of islands in the North Pacific, which formed, until recently, the kingdom of Hawaii (so called from the name of the largest island of the group). They have long been known also as the Sandwick Islands, the name given them in 1778 by Captain Cook, in honor of Lord Sandwich, these First Lord of the Admiralty. These islands form almost the only land in a vast area of ocean north of the equator, lying midway between America and Asia, though nearest to the American coast, from which they are distant about 2,100 miles. From Japan they are shout 3,400 miles distant, and 2,280 from Tahlit. They are bounded by the 190 and 220 N. Lat, and the 1550 and 1600 of W. Long, and form a convenient coaling and repair station for ships on their way from the ports of the Pacific coast to China and Japan, as well as to Australia and New Zoaland. The islands are twelve in number, running from 8.E. to N.W., and differing considerally in dimensions, the total area being about 7,000 eq. miles or about that of New Jersey. Of these, Hawaii (the Owhyhees of Captain Cook) occupies more than half the area, if: having 4,210 eq. miles. The others are Masi, 750;



Pig. 2924.—THE HAWAIIAN ISLANDS.

Oahu, 600; Kauai, 590; Molokai, 270; Lanai, 156; Kahulaui, 63, and Nühan, 97. The remaining four are merely barren rocks. Hawaii occupies the most southerly position in the group, and is of a somewhat triangular

GENERAL DESCRIPTION.—These islands are of volcanic GENERAL DESCRIPTION.—These islands are of volcanic origin, and are partly bordered by coral reefs. The larger ones are mountainous and contain some of the largest and most remarkable volcanoes in the world. Mauna Kee and Mauna Loa, situated on the island of Hawaii, are respectively 13,905 and 13,600 feet in elevation, and on the eastern slope of the latter, 4,000 feet above sea level, is the famous Kliaues, the most extraordinary in the manifestations of all existing volcanoes. Hawaii, are respectively 13,205 and 13,600 feet in elevation, and on the eastern slope of the latter, 4,000 feet above sea level, is the famous Kliauea, the most extraordinary in its manifestations of all existing volcanoes. Its luge, oval crater is no less than 9 miles in circumference and 1,000 feet deep, a vast basin which in times of eruption is filled with a lake of fiery law, rising and falling like the waves of the occan. Mauna Loa itself is also an active volcano, its summit crater being 8,000 feet in diameter and 600 feet deep, while in some of its discharges the lava has continued to pour out for two mouths at a time, forming a river of molten rock 50 miles long, which poured like a cataract into the sea. On Maul, the adjoining island, is another mighty volcano, Haleakala (the house of the sun), whose crater is nearly 30 miles in circumference, from 2,000 to 3,000 feet deep, and 10,032 feet above the sea. It is, however, extinct and contains about 16 basins of old volcanoes, while in its walls are gaps from one to three miles wide, through which at one time mighty floods of lava have poured. Hawaii is traversed by other mountains and has a rugged and picturesque aspect, with bold sea cliffs at places from 1,000 to 3,000 feet high. But as a rule the mountains occupy the center of the islands, and are divided by fertile valleys which lead down to a sandy coast region. The valleys of Oshu are notable for their beautiful scenery, tropical vegetation combining with peaks, cliffs, natural ravines and lofty cascades to please the eye. Several of the islands, Hawaii and Kauai in particular, are well supplied with rivers, which are useful for irrigation, though too small to be navigable. Molokai is a small, narrow island, about 9 miles N.W. of Maui. The government has established here a leper settlement to which all afflicted with leprosy are removed. They number in all afflicted with leprosy are removed. The supplement is a single and though within the tropics would be a single within the tropics active tempe

CLIMATE AND SOIL.—The Hawaiian Islands, unougu within the tropics, possess a fairly temperate climate, through favor of their oceanic situation. The temperature rarely rises above 90° F. in the summer, and seldom falls below 52° F. in winter, the annual average lating 74.3°. Rains are abundant on the N. W. face of seldom falls below 52° F. in winter, the annual average being 74·3°. Bains are abundant on the N. W. face of the mountains, brought by the trade winds; but there is little rain elsewhere. The average rainfall is about 54 inches. The soil is mainly made up of decomposed lava, scoria and sand, and is generally thin and poor except at the bases of the mountains and in the valleys, where there are extensive tracts of high fertility. The only large pasture grounds are on the Waimea plains of Hawaii, where thousands of Marino sheep are raised,

the grassy levels elsewhere being converted into sugar and rice plantations, while dense forests cover the mountain slopes.

NATURAL PRODUCTS.—The wide separation of these islands from other lands gives certain special characteristics to their products, the only animals native to the islands being rats, mice, bats, dogs, and hogs. Cattle, sheep, and horses have been introduced. There are few reptiles, while the native birds, of which there are few species, are disappearing, though others are taking their place. The forest trees are mainly to be found on the rainy side of the mountains, some of them, on the high levels, being akin to American species. Tropical fruits are numerous. Raw and dried fish and pot, a kind of thick paste made from the root of the taropiant, form the staple food of the natives. There was formerly a particular breed of dogs which were considered a great delicacy. Mineral products are scanty,

pant, form the staple tood of the naives. Here was formerly a particular breed of dogs which were considered a great delicacy. Mineral products are scanty, coral rock forming the principal building material, replaced to some extent by lava, basalt, and sandstone. INHARITANTS.—The natives of the Archipelago belong to the brown Polynesian stock, being in language and racial characteristics akin to the Maorie of New Zealand. At the time of Captain Cook's visit they numbered, by estimate, about 200,000, but since then have apidly decreased, largely through the introduction of foreign diseases. Physically they are an unusually fine and handsome race, while in character they are indenent, good-natured and contented. They have many games and sports, are very fond of riding and swimming, and live in high enjoyment of existence. Their dress formerly consisted in a strip of cloth around the loins for the men and a somewhat more ample covering for the women, but they have now adopted a more drillined attime. Form.

they have now adopted a more civilized attire. Formmore civilized attire. Formerly they were licentious, and seemed to have practiced cannibalism, but they have greatly improved in these respects through the efforts of the missionaries. Day schools have been introduced, and nearly all the islanders can read and write in their own language. islanders can read and write in their own language. Despite their improved cou-ditions—better food, cloth-ing, dwellings, &c.—the race seems dying out, and threatens before many years to become extinct. They are being replaced by a foreign population, of whom the most numerous are the Chinese and Japanese, em-ployed as laborers on the sugar plantations. Next in ployed as laborers on the sugar plantations. Next in number come Portuguese, Americans, Germans, English, French, &c. The Japanese are of recent introduction, but have come in considerable numbers. In 1890 the total population was 89,990, of whom 34,436 were natives, 15,301 Chinese, 12,360 Japanese, 8,602 Portuguese, and smaller numbers of the other peoples named. Of this population 68,714 are males and 31,284 femisles. In 1878 the natives numbered 44,08%; in 1884, 40,014; and in 1890, as above, 34,436, indicating a rapid process of extinction. Of the diseasee reponsible for this disappearance, the most prevalent at present is leprosy. In 1885, in an effort to check the progress of this terrible disease, the government set aside the island of Molokai for the segregration of lepers, and in 1888 a law was passed fining any one who assisted in any way in concealing a leper, so as to prevent his or her removal. The afflicted lived here in abject misery until Father Damien (g. v.) settled among them and strove to ameliorate their condition. Since his death in 1889 others have taken up the good work.

Agriculture and Commerce.—The leading cultivated product of the islands is the sugar cane, in whose culture much capital has been invested, principally by

others have taken up the good work.

Agriculturer and Commerce.—The leading cultivated product of the islands is the sugar cane, in whose culture much capital has been invested, principally by Americans, and numerous large plantations exist. The soil and climate are excellently adapted to this culture in those parts of the island with sufficient rainfall or facilities for irrigation. The average yield of sugar per acre varies from 2½ tons to 7 tons in specially favorable localities. The product of sugar in the season of 1833-94 was 135,000 tons, being about half the cane sugar crop of the U.S. for that season. Next in importance is rice, which is also largely grown. Coffee is produced, but only to a small extent. The take plant (Oblocasis seculents) is grown extensively in wet places, and is so prolific in food that it is said that a patch 40 feet square will yield food enough to support a native for an entire year. At this rate the product for a square mile would support 17,000 persons. Maize and wheat are raised, and numerous fruits, including oranges, mangoes, pine-apples, guavas, custard apples, and many sthers. A silky fiber called puls, which grows on the

crown of tree ferns, is largely exported to America, where it is used to stuff cushions. Commerce is on the increase. Up to 1876 the principal trade was in supplying the vessels engaged in the Pacific whale fisheries—now almost extinct. A reciprocity treaty was concluded with the U.S. in 1876 which gave a great impetus to the export trade. Since then the great bulk of the sugar product has been sent to the U.S., the other chief articles of export being rice, wool, molasses, bananas, and tallow. The imports consist principally of dry goods. Of this commerce, nine-tenths is with the U.S. There are good roads on the larger islands and short lengths of railway on Hawaii and Maui. Telegraphs have been introduced, and the telephone is common in Honolulu, the capital, which has a population of 20,000. The current coin consists of the silver money of the U.S. The chief sources of revenue are customs and internal taxes, the revenue in 1896 being about \$2,100,000; the expenditures, \$2,050,000. Of the revenue \$547,149 came from customs, \$592,692 from internal taxes. The public debt amounted to \$3,811,064 in 1896, paying interest at from 5 to 12 per cent. Exports in 1896 amounted to \$15,515,220, and the imports to \$4,063,652. Hisrorx.—The Hawaiian Islands are said to have been first discovered in 1778, by Captain Cook, who was murdered by the natives in 1779. At that time each island had its separate chief; but in 1792 Vancouver, on visiting the islands, at the request of Kamehameha, the chief of Hawaii, laid for him the keel of a vessel on the European model. Twenty years afterward

Fig. 2925.—DIAGRAMMATIC MAP OF THE PACIFIC OCEAN SHOWING THE LOCATION AND STRATEGIC POSITION OF THE HAWAIIAN ISLANDS

he was found by Turnbull to possess 20 such small vessels, and he afterward purchased others. He had also introduced firearms, and encouraged a warlike spirit in his people; and one by one he attacked and subdued the other chiefs, until he became master of the whole group. He died in 1819, and was succeeded by his son under the title of Kamehameha II. Vancouver had endeavored to show the natives the absurdity of their idol worship, and not without effect, for on the arrival of the first missionsaries, in 1820, Hawaii was found to be a kingdom without a religion. The new king, on coming to the throne, had abolished idolatry and the practice of the tabs throughout the kingdom; opposition to this arose, but the insurgents were defeated, and since them the peace of the islands has remained almost unbroken. As a result, the missionaries found a free field for their efforts; their instructions were readily accepted, and in 40 years they had taught the whole population to read, write, and cipher, and the women to sew. The king and queen visited England in 1824, and there died of messles. Kamehameha III. succeeded, and in 1840 ended the despotism which had formerly prevailed by giving his people a constitutional government consisting of king, assembly of nobles, and council of representatives. The progress of the nation did not proceed without interference from without. On one occasion a British officer went so far as to take possession of Oshu and establish a commission for its government. French officers also abrogated the laws, dictated treaties, and established the Roman Catholic religion by force. These outrages led to strong repre-

sentations from the government to Great Britain, France, and the U.S., and these powers joined, in 1844, in guaranteeing the independence of the kingdom, and freedom from unwarranted interference from other powers. There were two other kings of the line of Kamehameha, the last of whom died without issue, in 1873, and was succeeded by a chief, Lunalio, who was elected to the vacant throne. He died in the following year, and was succeeded by Kalakana, also elected. In 1887, in consequence of the unsatisfactory condition of the finances, a new constitution was granted, which decreased the power of the king and increased that of the people. Under the former constitution the house of notice had been chosen by the king; they were now elected by his sister, Liliuokalani. During the late reign there had been a large increase in the foreign population, due to the growth of the sugar interest. The new monarch soon sought to evade the provisions of the new constitution, under which many foreigners, principally Americana, took part in the government. She appointed ministers in opposition to the votes of the legislature, allied herself with speculative projects detrimental to the interests of the planters, and finally prepared to announce a restoration of the royal power and an abrogation of the constitution. The result was an insurrectionary movement, and the dethronement of the queen, in January, 1883. A provisional government was at once organised, U.S. marines and sailors were landed to protect the life and property of Americana, and steps were taken to annex the siands to the U.S. A treaty for this purpose was negotiated and sent to the Senate. On Precident Cleveland taking his seest, immediately

On President Cleveland taking his seat, immediately afterward, he withdrew the ing his seat, immediately afterward, he withdraw the treaty and put an end to the steps toward annexation. Efforts to restore the royal government failed, and on July 4, 1894, a republic was proclaimed under the presidency of Sanford B. Dole, the president of the provisional government. Subsequent intrigues of the queen led to her banishment from the islands. The next great event in the history of Hawaii occurred in 1897 during the administration of President McKiuley, who, unlike his predecessor, favored the annexation project; and a treaty for that purpose was formed. The only objection to this action by a foreign power came from Japan, the government of which maintained that such action would abrogate of which maintained that such action would abrogate a treaty which it had made with Hawaii, and affect in-juriously the interests of the Japanese population of the islands. The protest, however, was not a strong one, and the steps toward annexation want on with

the islands. The protest, however, was not a strong one, and the steps toward annexation went on with little regard to it.

Haw ardem, in fosca, a post-town of Sioux co. 25 m. W. of Orange city, on C., M. & St. P., and C. & N. W. R. Rs.; a grain shipping point. Pop. (1895) 1,725.

Hawk'ims, Benjamin scientist, born in London in 1807. After achieving a high reputation by his researches in natural history and geology, he was appointed in 1852, by the Crystal Palace Company, to restore the external forms of the extinct animals to their natural gigantic size, and he devoted three years and a half to the construction of the 33 life-size models in the Crystal Palace Park, many of them being of colomal proportions. In one of these, the Iguanodon, he gave a banquet, Dec. 30, 1855, to Profs Owen and Forbes, and twenty other men of science. Prof. Hawkins was author of Popular Comparative Anatomy (1840); Elements of Form (1842): Compartive View of the Human and Assimal Frome (1843); and in conjunction with Prof. Huxley of an Alias of Elementary Anatomy (1865), and of Aristic Anatomy of the Horse, Calle, and Sheep, for Art Students. Died in 1889.

Hawkes, Francis Lister, clergyman, born at Newberne, N. C., June 10, 1798; graduated from the University of North Carolina, and won distinction as a lawyer; subsequently studied for the ministry of the Protestant Episcopal Church, was ordained in 1827, and became rector of St. Thomas's Church, New York city; was one of the founders of The New York Record (1840-44); resided in Mississippi (1843). And was the first president of the University of Louisiana; declined the bishopric of Rhode Island (1844), and the first president of the University of Louisiana; declined the bishopric of Rhode Island (1844), and was the first president of the Chapel of the Huy Saviour, New York.

1580

History of the Protestant Episcopal Charca. Died Sept. 27, 1866.

Hawks'shaw, John, civil engineer; born in England, April 9, 1811; constructed railways and built bridges in England, Ireland and India; was consulting engineer on the navigation of the Weaver, in England, the Suez Canal, Amsterdam Ship Canal, navigation of the Nile, and the Panama Canal; was president of the British Association of Engineers (1875), and honorary member of the American Society of Civil Engineers Died June 2, 1881.

Haw'iey, Joseph Roswell, soldier and stateman, born at Stewartsville, N. C., Oct. 31, 1825; graduated at Hamilton College, New York, in 1847; studied law and began practice in Hartford, Conn. He was an active politician and opponent of slavery, and one of the founders of the Republican party in Connecticut. In 1857 he ceased the practice of law, and became editor of the Hartford Beesing Press. He was the first man in Connecticut to enroll his name for the volunteer service in the Civil War; was made captain, and successively colonel and brigadier-general; was brevetted major-general in 1885, mustered out of service in 1886, and the same year was elected governor of Connecticut, from which office he retired at the expiration of one year, and returned to journalism as editor of the Hartford Courant; was three times elected to Congress; became U. S. Senator in 1881, to which position he was redected in 1887 and 1893. In 1876 he served as president of the U. S. Centennial Commission; has filled many other public posts with honor.

Haw the Press.

many other public posts with honor.

Haw'thorme, Julian, novelist and journalist, son of
Nathaniel H., was born in Boston, June 22, 1846;
studied engineering at Harvard and at Dresden, and
was for a time (1870) engaged on the docks at New
York under General McClellan, but after 1871 devoted
his attention chiefly to literature. His novels have been
well received but are above means brilliant. Of received well received, but are by no means brilliant. Of recent years he has done much in journalism as a special cor-respondent, and in 1897 went to the famine- and plague-

respondent, and in 1897 went to the famine- and plague-stricken districts of India to write up the scenes and conditions for a prominent monthly magazine.

Effay, John, author and diplomat, was born at Salem, Indiana, Oct. 8, 1838; graduated from Brown University (1858), studied law, and was admitted to the bar (1861) at Springfield, Ill.; the same year went to Washington as assistant secretary to President Lincoln, acting also as the latter's adjutant and alde-de-camp, also serving for some time under Generals Hunter and Gilmore, and reaching the rank of colonel. After the war he was

as the latter's adjutant and alde-de-camp, also serving for some time under Generals Hunter and Gilmore, and reaching the rank of colonel. After the war he was secretary of legation at Paris, chargé d'agaires at Vienna, and secretary of legation at Mairid. From 1870 to 1875 he was on the editorial staff of the New York Tribune, and from 1879 to 1881 was first assistant Secretary of State. His Pike County Ballads and Custilian Duys were published in 1871. The first-named volume includes H's early dialect poems—Jim Bludsos, Little Breches, &c., which first gave him great celeirlity in the literary world. His History of the Administration of Abraham Liscola, written in conjunction with John G. Nicolay, is a classic in its way, and H's most pretentious and valuable literary production. Col. H. became U. S. Ambassador to Great Britain in March, 1897, succeeding Thomas F. Bayard.

Hay Fewer. (Puth.) Also called Hay Asthma and Summer Catarrh, a disease mostly met with in summer, its symptoms being those of common catarrh—a copious watery discharge from the nasal passages, with paroxysms of sneezing, irritations of the eyes, and severe headach. Feverishness and loss of appetite are also present, with difficulty of breathing when the bronchial membranes are affected. It is usually a disease of adults, though children are sometimes affected. It ordinarily returns annually, and is believed to be due to the pollen of certain plants, some persons being more generally susceptible than others. Thus, in some preparance of the malady until August. It is a very difficult disease to subdue, and no remedy has been ound that serves to effect a cure, the only mode of obtaining relief being, in many cases, to seek certain seaside or mountain localities from which the exciting cause of the disease seems absent.

Hay deem, FREDINAND VANDENER, explorer and geol-

obtaining relief being, in many cases, to seek certain seaside or mountain localities from which the exciting cause of the disease seems absent.

Hay'dem, Ferdinand Vandevers, explorer and geologist, born in Westfield, Mass, Sept. 10, 1829; graduated at Oberlin, O., in 1850; studied medicine but did not practice the profession till the period of the Civil War, when he was appointed surgeon of volunteers and was brevetted lieutenant-colonel. Except during his service in the war, he was engaged from 1853 to 1879 in exploring and surveying the great plains and Rocky Mountains. At first his work was at private expense, but afterward under the auspices of the general government. The commission given him by the government to make a geological survey of the Territory of Nebraska was the beginning of the U. S. Geological and Geographical Survey of the Territories, and was succeeded (1879) by the present U. S. Geological Survey. He was a member of the National Academy of Science and of many other scientific societies of America, and an honorary member of a number in foreign countries. The official reports of his survey, which are his chief writings, are important contributions to geographic, geologic, botanic and ethnographic knowledge. Died

He was the author of several volumes of legal reports and a digest, and Contributions to the Ecolestatical History of the United States; Narrative of Commodors Perry's Expedition; History of North Carolina; and, in collaboration with Rev. William Stevens Perry, Documentary History of the Protestant Episcopal Church, Died Sept. 27, 1866.

Hayk's Rabaw Love stell control of the Protestant Episcopal Church, Died Sept. 28, 1866.

in the second in Boston. He was the discoverer of the organic alkaloid, senguiseria, and made experiments which led to the construction (1838) of improved furnaces and boilers; was the suggester of reducing pig to malleable fron, without loss, by the use of the oxides of iron; also discovered other new processes in copper smelting, &c. He was State Assayer of Massachusetts for a number of years. Died June 21, 1882.

\*\*Rayes, Isaac J., a distinguished American explorer, born in Chester co., Penna., 1852, graduated in medicine from the University of Pennsylvania (1853), and was almost immediately afterward appointed surgeon of Dr. Kane's second Arctic expedition, with which he returned to the U. S. in 1855. Having become convinced that an open polar sea lay around the North Pole, he was anxious to lead an expedition for its exploration, and after some five years of effort, he was enabled, by the liberality of Mr. Henry Grinnell, of New York, the American Geographical and Statistical Society, and Sir Roderick Murchison and other members of the Royal Geographical Society of London, to set sail in July, 1860, in the 183-ton schooner Usided States, from Boston. Dr. H. penetrated as far north as 25° 45°, and made explorations and observations in regard to the country and its inhabitants. After his return, in Oct., 1861, he served as a surgeon in the Union army. After the restoration of peace, H. published The Open Polar Sea: a Narratice of a Vogage of Discovery toward the North Pole. He had previously given some reminiscences of his first voyage in Am Arctic Boat Journey (1865); and in 1870 added some incidents of his second journey, in Oast Arcy is the Cold. In 1869 Dr. H. again visited Greenland, and explored the southern coasts of the peninsula in company with the painter Bradford. Dr. H. received, for his discoveries, the gold medal of the Royal Geographical Society of London, as well as a like honor from the Société de Géographie, of Paris. He was subsequently elected to the New York Legislature, and died Dec. 17

elected to the New York Legislature, and died Dec. 17, 1881.

Hayes, Rutherpord Birchard, nineteenth president of the U. S.; born at Delaware, Ohio, Oct. 4, 1822; graduated at Kenyon College (1842), and at Harvard Law School (1845); first practiced law at Fremont, O., but removed to Cincinnati, in 1849: was appointed major of the 23d Ohio Volunteers, June 27, 1861, and through successive promotions became brigadier-general of volunteers, being subsequently made brevet major-general for gallantry; resigned from the army. June 1, 1865, returning to Cincinnati. He was elected to Congress in 1864 and 1866; elected governor of Ohio in 1867 and 1869; and in 1871 was a third time elected governor, an honor conferred for the first time on a citizen of Ohio. At the Republican National Convention held in Cincinnati on June 16, 1876, H. was noninated for the Presidency. The result of the ensuing election was disputed by the Democrate, who claimed the election of Samuel J. Tilden. This led to the appointment of an electoral commission (q. v.), upon whose decision H. was declared elected, he being inaugurated on March 4, 1877. His administration was not particularly eventful, and at its close (1881) H. returned to his home in Fremont, Ohio, where he died on Jan. 17, 1893.

particularly eventual, and at use cose (1881) H. returned to his home in Fremont, Ohio, where he died on Jan. 17, 1893.

Hayes, in Nebraska, S.W. co.; area, 720 sq. m. Drained by Frenchman's Fork of the Republican river, Red Willow creek and Spring creek. Surface, partly high rolling, and partly level valley; soil, very fertile and well watered. Products, corn, wheat, oats, barley, potatoes; excellent grazing for horses and cattle. Cap. Hayes Center. Pop. (1890) 3,963.

Hays, or Hays City, in Konsas, a post-village, cap. of Ells co., 222 m. W. of Topeka, on Union Facific R.R.; has flour mills and grain elevators; good building stone and coal in the vicinity. Pop. (1890) 979.

Hay'seed, s. The seed of dried grass.

(Slong.) A farmer, especially one who is not in the least world-wise; a greenhorn.

(Local.) A floating substance that furnishes the food of certain kinds of fish.

Hay'ward, in Wisconsis, a post-village, cap. of Sawyer co., on C., St. P., M. & O. R.R.; has extensive saw mills, planing and feed mills. Pop. (1897) about 1,500.

Ha'sem, William Bardick, soldier; born in Hartford, Windsor co., Vt., Sep. 21, 1850; graduated at West Point, in 1856. During the Civil War he served with honor and received brevet commissions up to major-general; appointed colonel of the 38th Infantry, U. S. A., in 1866, and Chief Signal Officer, with rank of brigadier-general in 1880. He was the author of The School and the Army in Germany and France; Burren Lands of the Interior of the United States; and Narrative of a Mültury Cureer. Died Jau. 16, 1887.

Head, Sir Francis Bond, traveller and author, was born near Rochester, England, Jan. 1, 1733; entered the

graduated at Union College in 1839. Among his mannerous works may be named: The Adironducks; Life of Cromwell; Life of Grant, Parragut, and our Nuvel Communiters; A History of the Great Rebellion; History of the Imperial Guard of Napoleon; and a History of the imperial Guard of Napoleon; and a History of the become War between Empland and the United States. Health Researchs. (Hygiene.) Places frequented for their supposed beneficial effect on certain diseases, through the invigorating qualities of their air, water, &c. These fall into several groups. Seaside resorts, visited for the remedial effect of the ocean air and of sea bathing, have long been in vocus, though only

visited for the remedial effect of the cosan air and of sea bathing, have long been in vogue, though only within recent times the scenes of a periodical exodus from cities. The benefit, to invalida, of mountain air is of more recent recognition, though now fully established. Climatic health resorts at high altitudes have lately came into favor, particularly for persons threatened with consumption. Mineral springs—including waters with a considerable variety of constituents—have been places of resort from early times, and are still in high favor. In the case of pulmonary diseases, residence in mild or warm climates for a prolonged period is often resorted to. Health resorts, having various claims to favor, exist in all parts of the earth, the U. S. being abundantly provided. For those desiring the benefit of sea bathing there are numerous suitable localities along the Atlantic coast, particularly on the sandy beaches of New Jersey, the whole length of whose coast is rapidly being converted into a series of summer resorts, particularly for the people of Philadelphis and New York. Further north, as at Newport, Bar Harbor, and other places on the New England coast, are resorts where all the benefit of ocean air may be had, but much less adapted to bathing. For those seeking a mild climate and equable airs, two localities recommend themselves particularly, Florida and Southern California, both of which are visited annually by large numbers of invalids and deblittated. The fine woods of Georgia and other southern States are also favored localities, from the supposed curative properties of their air. For those seeking a dry but bracing air for the benefit of bronchial and pulmonary affections, the climate of Colorado is much sought, while there are various similar resorts in the mountains of the cast, as in the hill districts of North Carolina and the Mount Pocono region of Pennsylvania, whose air is claimed by some physicians to equal that of Colorado. Mineral springs, valued for their curstive properties, are numero see bathing, have long been in vogue, though only within recent times the scenes of a periodical exodus from cities. The benefit, to invalida, of mountain air is New curative ideas in this direction frequently crop out, one of the latest being the dew-cure, obtained by barefoot rambles through the dewy grass of early morning. That much benefit is derived from visits to H. B. there can be question, this benefit being perhaps due to outdoor life in pure air quite as much as te specific location and surroundings.

Hearm, Larcano, journalist and author, born at Santa Maura, Ionian Islanda, June 27, 1850; educated in England and France; went to the U.S., engaging in journalism in Cincinnati and New Orleans. He is the author of: Chita: a Memory of Last Island; Two Years in the French West Indies; Youma, and other works, and has acquired fame for his brilliant word-pictures of

equired fame for his brilliant word-picture

in the French West Indies; Yosma, and other works, and has acquired fame for his brilliant word-pictures of tropical scenery.

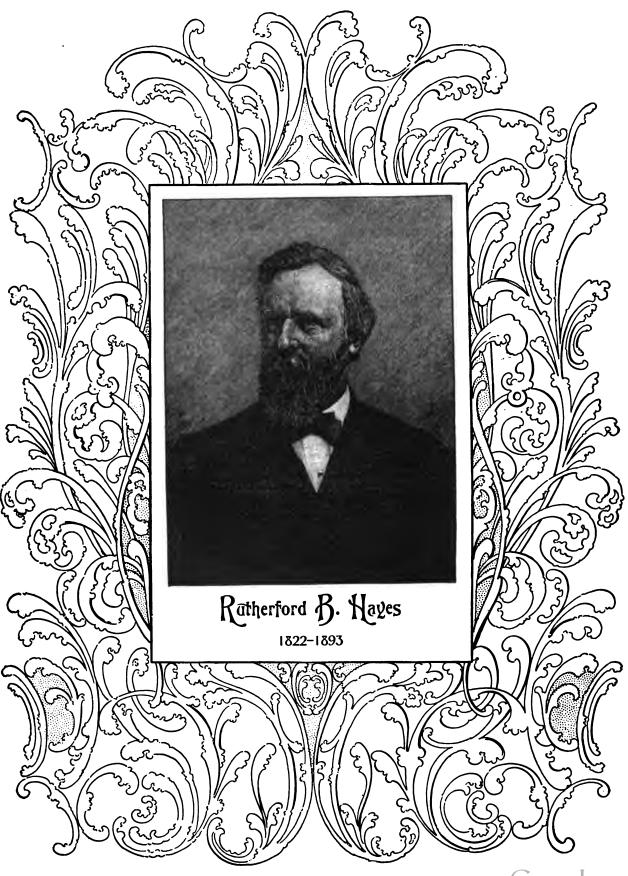
He'brom, in Nebraska, a post-village, cap. of Thayer co., 74 m. S.W. of Lincoln, on B. & M. R. and C., R. I. & P. R. Re. Has flour mill, planing nill and creamery.

Pop. (1890) 1,502.

Heck'er, Iaaac Tromas, ecclesiastic, was born in New York city, Dec. 18, 1819; joined the Brook Farm Society (1843); afterwards lived in a socialistic community at Fruitlands, Worcester co., Mass., and for a time with H. D. Thoreau in his hermitage; became a Roman Catholic (1845); Joined the Redemptorists in Belgium (1847), and was ordained a priest by Cardinal Wiseman (1849); returned to the U. S. in 1851. He obtained from the Pope (1857) his release from the Order of Redemptorists and (1858) founded the congregation of St. Paul the Apostle, known as the Paulist Fathers. The members of this order take no special vows, and can withdraw when they choose. He founded a periodical called The Catholic World, and was the authou of Questions of the Soul; Aspirations of Nature; Catholics in the United States, &c. Died Dec. 22, 1888.

Hec'la, in Pesnegicania, a village of Westmoreland co., on Penna. R.R.; has manufactures of brushes, baskets, and lumber. Pop. (1890) 610.





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Hec'tegraph, s. [Gr. kekntos and graphő.] A gela-tine pad for duplicating manuscript, supposed to yield at least a hundred copies from one writing; hence its

Hec'tor, in Minnesota, a post-village of Renville co. 28 m. W. of Gleucoe, on C., M. & St. P. R.R. Pop. 28 m. W. (1895) 521.

(1895) 521.

Hedge, Frederick Henry, D.D., Unitarian clergyman, was born in Cambridge, Mass., Dec. 12, 1805; educated in Germany, under charge of George Bancroft, and at Harward; studied theology at the Cambridge Divinity School; became pastor of the Unitarian Church in West Cambridge (1829), and subsequently held other charges; lectured in Harward College on Church History, and became professor of German there (1872). He tory, and became professor of German there (1872). He acquired emineuce as a author, and his Prose-scriters of Germany is a standard. He also wrote: Reason in Religion; The Primeval World of Hebres Tradition; Hours with German Clussics, Ac.; edited the Christian Examiner (1867 to 1860); composed hymna; translated poems from the German, and, jointly with Mrs. Annie Lee Wister, published Matrical Translations and Poems. Died Aug. 21, 1890.

Lee Wister, published Metrical Translations and Froms. Died Aug. 21, 1880.

Hedon'ics, n. [Gr. hēdonē, delight.] The science of pleasure or actual enjoyment.—The principles of hedonism or groes self-interest. From an ethical standpoint, H. treats of pleasure in its relation to one's duties.

Hed'rick, in Ionea, a post-town of Keokuk co., on B. & N. W., C., M. & St. P., and Iowa Cent. R.R.; has a tub factory, flour mill, planing mill, and brick and tile works. Pop. (1895) 1,021.

Heel'er, n. (Polit. Stang.) A hanger-on in politica; a politician of the lowest type; particularly, a rowdy who stands ready to execute any command of his political leader.

a politician of the lowest type; particularly, a rowdy who stands ready to execute any command of his political leader.

Hee'rem, Arnold Hermann Ludwig, historian, born near Bremen, Germany, in 1760; married a daughter of of Heyne about 1785, and became (1801) professor of history at Gittingen. His celebrity chiefly rests on his Ideus on the Politics, Commerce, and Trade of the Principal Nations of Antiquity, which was completed in 1842. Died in 1842.

Hefele (hū'/li), Karl Joseph, a distinguished ecclesiastical historian, born in Würtennberg, Germany, in 1809; after holding a professorship at Tübingen, became (1869) hishop of Rottenburg. His most important works—all of which have been translated into English and passed through several editions—embrace: A History of the Christian Connells from the Original Documents to the Close of the Connell of Nicea A. D. 325; Cardinal Ximense and the Ecclesiastical Condition of Spain in the 18th Century; and Contributions to Charch History, Archeology, and History. Died June 5, 1893.

Hel'derberg Formas'tion. (Geol.) A series of strata in the Silurian and Devonian geological divisions of the U. S. It derives its name from the Helderberg range of eastern New York, and lies apparently on the same geological horizon as the Ludlow beds of England. It is divided into the Lower Helderberg, of the Silurian, and the Upper Helderburg, of the Devonian.

Hel'dos. n. [Gr.] (Myth.) The Greek name of the sun (the Roman Sol), son of Hyperion and Theia, worshipped as a god. In the later mythology confounded with Apollo or Phœbus.

Helid'sia, n. [Gr.] (St.) Spots on leaves, produced by concentration of the rays of the sun upon them, due to inequalities of the glass in conservatories or other causes.

Helid'ropism, m. (Bol.) The tendency of plants.

to inequalities of the glass in conservatories or other causes.

Heliot'ropism, s. (Bot.) The tendency of plants to turn toward the sun. If a seedling plant be placed in a glass vessel filled with water in a window, the stem and leaves may be seen gradually to bend towards the outer light, while the roots turn in the opposite direction. Nearly all plants manifest this tendency in the shoots and leaves, a familiar example in a floral organ being the tendency of a sunflower to turn toward the sun. Study of this phenomenon has shown that the growth of the side next to the sun is retarded and that of the opposite side increased, the one side becoming concave, and the other convex, thus causing a curvature toward the light. It is found that the cells on the concave side become less turgid, and those on the opposite side more so, thus forcing the part to bend. The cause of this condition of the cells is unknown.

He'liotype, s. A method of printing on an ordinary lithographic press, from a gelatine surface hardened with alum, to which pictures from photographic negatives have been transferred. See Engazvira, Prioro-Hellowow, s. (Biol.) A class of Protoga, familiarly known as "sun animalcules," and belonging to the rhizopod type, or that of those which move by protruding processes of living matter. These processes differ from those of the Amoebe in being slender and radiant; and in other particulars from the Foramenifera. The Heliozoon cell is globular in form, with one or more nuclei and vaccoles, and is generally provided with an outer skeleton, gelatinous or silicious in substance. In the latter case it is sometimes composed of lowe spicules, through which the processes extend outward. Bepro-

outer skeleton, gelatinous of silicious in substance. In the latter case it is sometimes composed of loose spicules, through which the processes extend outward. Beproduction is achieved by the division of the cell into two, by budding off particles, or by the formation of interior spores, the young being occasionally provided with flagellate or while-like cilia, and being active in motion, in contrast to the sluggish character of the adults. H. dwell usually in fresh water, but are in some instances marine. They are microscopic in dimensions.

He'lium, s. (Chem.) In 1868 Prof. Norman Lockyer, while for the first time in the history of science examining the sun with the spectroscope during an eclipse, discovered in the spectrum a line not accordant with any known lines in terrestrial spectra. This was

the D-3 line, a bright yellow line near the D line of sodium. As there was then no evidence of the existence in the earth of the substance represented by this line, it was named Helium, after the Greek title for the sun. The line of this hypothetical substance was atterwards discovered in certain stars, and Professor Copeland saw it in the spectrum of the great nebula of Orion. Until 1896 no trace of this substance was found in the earth; but in that year Professor Ranssy, while subjecting to the action of heat a rare mineral of Norway, called clereite, perceived in the spectrum of the gas given off a line that proved to be identical with that of helium. Bröggerite, another mineral, also yielded gas given off a line that proved to be identical with that of helium. Bröggerite, another mineral, also yielded it, and Ramsay's later researches indicate that it is held by minerals which contain salts of uranium, yttrium and thorium. Oxide of uranium seems capable of retaining it, and it is found plentifully in monaxite, a mineral which contains thorium. It has been found also in the waters of certain mineral wells. H. may be a constituent of the atmosphere, but if so must occur in very minute quantity, as no trace of it can be found. Study of its physical characteristics show it to have a density varying in different examinations from 1874 to Study of its physical characteristics show it to have a density varying in different examinations from 1874 to 2133. It is the least soluble in water of all known gases, its solubility at 18° being 0.007. Its refractive index is also very low, being 0.146. That of hydrogen is 0.5, or half that of air.

Hell Gate, a strait in East River, 8 m. N.E. of the Battery, connecting that river with Long Island Sound, and formed by projecting and underlying rocks that



Fig. 2926. UNDER THE RAST RIVER

confine the water to a narrow and crooked channel, causing strong eddies and rapid currents. Extremely dangerous for small vessels, the strait was altogether impassable for ships of considerable tonnage. In view of the fact that the removal of the hindrances to the Sound navigation at Hell Gate would enable vessels to avoid a hundred miles of exposure to a dangerous coast, and bearing in mind, too, the heavy losses annually sustained on this point, the New York Chamber of Commerce, in 1851, accepted a proposal made them by M. Maillefort, an eminent engineer, which had for its object the removal of three of the smaller—but most dangerous—reefs at Hell Gate by means of submarine mining. In the carrying out of his project, M. Maillefort was to a certain degree successful; the chief result being the removal of the projection of Pot Rock, and the increased facilities gained thereby for permitting the safe passage of vessels drawing 16 feet of water. Funds to complete the work falling short, Congress was appealed to in 1852, and an appropriation of \$20,000 was made for carrying on operations under the supervision

it in hand, and placed it under the charge of Gen. Newit in hand, and placed it under the charge of den. New-ton, who energetically pushed it to completion. The removal of Hallett's Point was the most pressing of the objects to be accomplished, that spit of land project-ing forward 300 feet in such a manner as to divert the Sound tide right upon the dangerous reef known as The Gridiron, over which it broke with irresistible from the shore by sinking a shaft, out of the way of shipping, and after undermining the reef with radiating shipping, and after undermining the reef with radiating headings connected by concrete galleries and removing all the rock that could be safely taken out, blow up the roof and its supporting columns at a single explosion, the dibris to be either buried in the excavation or removed by grappling, as might be proved most economical. The first step taken, therefore, was to construct, between high and low water, around the mouth of the proposed shaft, a strong cofferdam, 310 feet in length, extending along four sides of an irregular pentagon, the fifth or shore-line of which was about 145 feet. The dam, consisting of a double shield of heavy timbers securely fastened to the rocks by loits passing through the structure—the space between the lar pentagon, the fifth or shore-line of which was about 145 feet. The dam, consisting of a double shield of heavy timbers securely fastened to the rocks by tolts passing through the structure—the space between the walls filled water-tight with sand and clay—was completed and pumped out, so that operations could be begun in the interior. The underground headings radiating from the main shaft were 10 in number, and named, like streets, after persons eminent in American history. The miners employed were Cornishmen, they being found to be the only class who could work long under water and still retain their health. The drilling of the rock, done in the first place by hand, was, during the latter course of the work, much expedited by the use of drills driven by compressed air, and acting in connection with the diamond prospecting drill. In this difficult and dangerous task of mining under water about 200 men in all were employed, working by turns. For blasting, dynamite was originally used; but the detonation caused by it being found to be too great, intro-glycerine was substituted in its place. For the removal of the smaller channel rocks, too distant to be reached by shore tunnelling, and swept by currents too powerful to permit the sinking of a caisson, Gen. Newton invented a special and unique drilling apparatus, worked by divers with the aid of machinery fitted on a soow moored on the surface of the water above the rock to be operated upon. Sept. 24, 1876, the mine was exploded by the electric current. Over 50,000 pounds of explosives compound were used. The concussion was much less than anticipated, and one of the most successful engineering exploits of the age was partly accomplished. Oct. 10, 1885, by a second explosion, far surpassing the one of 1876, Flood Bock was blown up. This time 260,000 pounds of explosives were used—nearly six times the former quantity. When the debris is fully removed, which has not yet been done, owing to insufficient appropriations, there will be an unobstructed channel 1,200 fe

to insufficient appropriations, there will be an unobstructed channel 1,200 feet in width and deep enough tepermit the passage of large vessels.

Hellem'otype, a picture in which a lightly-printed positive, on translucent paper, has been placed over another printed dark from the same negative, and made opaque on the back, thus producing a composite effect. Also called hellotype and isory-type.

Helm'holks, Herran Luwno Frederick, a distinguished physicist and physiologist, born Aug. 31, 1821, at Potsdam, Germany; studied medicine at Berlin (1838-47), and for a year was an assistant physician at the Charité hospital. He afterward served as military surgeon, in 1848 entered the Berlin Art Academy as a lecturer on anatomy, and in 1849 became professor of physiology in the University of Künigsberg. His fame as a scientist began with his researches while holding this position, and were continued at Bonn, where he accepted a professorahip in 1855, and at Heidelberg, in 1858. He remained here as professor of physiology until 1871, when he became professor of physics in the University of Berlin. This position he subsequently resigned to become the head of the physico-technical

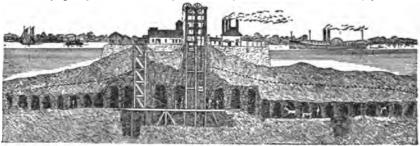


Fig. 2927.—SUBMARINE EXCAVATION OF FLOOD ROCK REEP.

of government officers. This fund soon became ex-hausted also, and then came the Civil War to entirely sushausted also, and then came the Civil War to entirely supend further progress. In 1866, the project was again brought under consideration, and upon a favorable report having been submitted thereupon by Maj.-Gen. Newton, of the War Department, who had been commissioned to make a personal inspection, Congress set apart a sum of \$85,000 for proceeding with the Hell Gate removal. After failing to pursue the work successfully by private contract, the U. S. government took institute for research at Charlottenburg. In 1870 the French Academy admitted him to foreign membership. In addition to his duties as a teacher and investigator, he held the position of privy councillor to Emperor William I., who conferred on him the title of von. H. became equally distinguished in physiology, physics and mathematics, his researches in each being profound and yielding results of high interest and importance. His studies of the phenomena of optics, acoustics and electricity went far to place all these sciences on a new

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basis. His first published work, Veber die Erhaltung der Kraft, (1847) gave him a prominent position among the advocates of the new philosophy of force, while his lectures on the same subject were translated into several lectures on the same subject were translated into several languages and widely extended his reputation as a profound thinker and experimentalist. His invention of the ophthalmoscope in 1851, the result of a long-continued investigation into the character and condition of the eye, gave the medical profession an instrument that has saved thousands from blindness. His optical researches were described in his Handbuch der Physiologisches Optics, a work which placed the science of vision on a new foundation; while his Die Lehre von des Tonenpphalanges aid the same for the science of music. Many practical questions which had puzzled musicians are solved in the latter work, and both show a combination of ingenious experiments with logical musicians are solved in the latter work, and both show a combination of ingenious experiments with logical and most profound philosophical reasoning. In his hands acoustics first took definite rank as a science, this invention of the resonator, a hollow body whose contained air vibrated in the presence of sounds of known character, enabled him to analyze the conditions known character, ensided him to analyze the conditions attending musical sounds, and to explain the difference in tones of the same pitch. He learned that the peculiar tone of each instrument is due to special overtones, which combine with the fundamental and give it a distinct character. His rese-arches on beats, as the cause of dissonance in musical notes, were of equal originality and importance. In physiology he devoted himself to



Fig. 2928.—VON HELMHOLTE.

research into the rapidity with which nerves convey an impression, with the interesting discovery that nerve conduction is very slow as compared with that of other conductors of energy, that sensations take an appreciable time to pass from the surface to the brain, and that an act of will is similarly slow in affecting the muscles and causing them to contract. His researches quite disproved the view held by many, that the nerves act as electrical conductors, their rate of conduction being very much less rapid than that of an electric conductor. Heaxtended his experiments into other fields of physical science, making researches of the highest interest into wery much less rapid than that of an electric conductor. He extended his experiments into other fields of physical science, making researches of the highest interest into vortex motion, in which he proved that the common vortex ring in smoke or vapor has conditions of activity previously unsuspected and of extraordinary character. His results suggested to Sir William Thompson a new theory of atoms, in which there are supposed to be vortex rings in a non-frictional ether. These are but the most striking of his many researches, which were widely extended, and embraced a vast aggregate of results, described in his various works and his numerous scientific papers. H., in short, won for himself a leading position in modern physical and physiological science, and took the very highest rank among observers and thinkers of the 19th century. Died Sept. 8, 1894.

Helps, Sir Arthur, an English historian, born in 1817, graduated at Cambridge, and in 1859 was appointed Clerk of the Privy Council. His principal productions are: The Conquerors of the New World and their Bondsmer (1852); The Spanish Conquest of America (1855-61); The Life of Pisarro, with some account of his Associates in the Conquest of Peru (1860); and The Life of Hermando Cortes, and the Conquest of Mexico. Died in 1875.

Hemp hill, in Tezaa, a N.W. co.; area, 900 sq. m. Intersected by the Canadian river. The central part is hilly; in the north and south the surface is mostly level prairie; soil, fertile, sandy leam; timbered along streams. Products. Hay, sorghum, millet, corn, and potatoes. Cattle raising is the principal industry. Cup. Canadian. Pop. (1890) 1519.

Hen'dereon. in Tennessee, a post-town, cap. of Chester co., 16 m. S.E. of Jackson, on M. & O. R. R. Pop. (1890) 1,060.

(1890) 1.060. Hend'ficks, Thomas Andrews, statesman; was born in Muskingum co., Ohio, Sept. 7, 1819; graduated at the South Hanover College, Ind. (1841); studied law at Chambersburg, Pa., and was there admitted to the bar in 1843. He afterward removed to Shelhyville, Ind., and in 1850 was an active member of the convention elected to revise the constitution of his adopted

State; was member of Congress (1851-55), commissioner of the General Land Office of the U. S. (1853-59), U. S. Senator (1863-69). In 1872 he was elected governor of Indiana, serving one term; was the Democratic nominee, with S. J. Tilden, for Vice-President of the U. S. in 1876, being defeated by Hayes and Wheeler; was moninated again in 1884, being this time elected. Died suddenly, at his home in Indianajolis, Nov. 25, 1885. Mem's messey, in Oklahoma, a post-village of Kingfisher co., about 60 m. N. of Union City, on C., R. I. & P. R. Pop. (1897) about 1,000.

Hen's messey, Siz John Pope, British colonial governor; was born in Cork, Ireland, in 1834; educated at Queen's College, Cox ; admitted to the bar at the Inner Temple (1861); member of the House of Commons (1859); Governor of Labuan (1867); of the West African Settlements (1872); of the Bahamas (1873); of the Windward Islands (1875); of Hong Kong (1877), and of the colony of Mauritius (1882); was elected to Parliament by a large majority, in 1890, as an anti-Parnellite. Died Oct. 7, 1891.

Hen's ingsens, Charles Frederick, soldier of fortune and author, was born in England in 1815; served with the Carlists in Spain, and commanded the cavalry with the Russians in Circassia, with Kossuli in Hungary, and with Walker in Nicaragua; engaged in the Civil War as commander of a brigade in the Confederate army; was subsequently employed to superintend the manufacture of Minic rifics. He wrote The Pus and Varieus of Husgary; The Wike Slace, a novel; and various other books of travel and personal adventure. Died June 14, 1877.

Henries' tas, in Texas, a post-town, cap. of Clay co., 100 m. W. of Sherman, on Pt. W. & D. C. and M., K. & T. R.R.; has manufactures of flour and cigars. Here are extensive stone quarries. Pop. (1897) about 2,300.

Hen'ber's, hen Orsgon, a post-village, cap, of Morrow co., 56 m. S.E. of Arlington, on O. R. & N. C. R.R.; has paining nill and flour mill. Pop. (1897) about 2,301.

Hen's ber's, hence a citizen of the U. S. in 1831, and published

in 1808.

Herd'-book, s. A record of the numbers of a particular breed of animals, in which are given the name, sex, markings, date of birth, pedigree, breed, and owner of every individual. In every case where a breed of any value appears, a berd-book is essential to its preservation; while the individual breeder finds it desirable to tion; while the individual preceder must it desirable to keep a similar record of every animal born or bought into his herd. If he succeeds in producing animals possessed of valuable characteristics, giving them a commercial value, the sale of members of this herd, and the multiplication of their progeny elsewhere, ren-ders necessary a common herd-book in which a comders necessary a common herd-book in which a complete genealogy of pure-blooded members of this breed shall be kept. Such breeds of especial value have arisen in every class of domesticated animals, and been preserved with the utmost care. Among horses we may instance the Arabiau, the English thoroughbred, the American trotters, the Percheron, the shire-horse and Clydesdale; among cattle, the shorthorn, Hereford, Angus, Ayrshire, Holstein, Jersey, and Alderney breeds; among sheep, the Leicester, the Southdown, the Mertino and the Cotswold; among piga, the Yorkshire, Berkshire, Essex and Suffolk. Each of these is valued for special excellence, and the preservation of purity of breed is sedulously attended to. The herd-hook is indispensable as a guaranty of the pedigree of any particular breed is sedulously attended to. The herd-book is indispensable as a guaranty of the pedigree of any particular animal. The production of new breeds of domestic animals, and the preservation and improvement of any valuable qualities that may appear, in which herd-books and stud-books are of the greatest importance, has been fostered by European governments, herds of special breeds being kept on government farma, whose purity is carefully guarded and their pedigrees as carefully recorded. In Great Britain and the United State all such work is left to private enterprise; but a herd-book by a private individual is not fully to be trusted, and it would be an advantage if some good govern-

all such work is left to private entities; out a lervibook by a private individual is not fully to be trusted,
and it would be an advantage if some good governmental supervision of herd-books existed, such as might,
for instance, be undertaken by the National Bureau of
Auimal Industry.

Her'dic, s. [From Peter Herdic, the inventor.] A twoor four-wheeled carriage, or omnibus, having a lowhung body, with side seats and an entrance at the rear.

Hered'ity, n. (Biol.) The fact has long been recognized that the offspring of every animal and plant
displays the general characteristics of its parents; and
this established fact forms the basis of all systems of
classification. From this has arisen the doctrine of the
immutability of species, one which has recontly been
vigorously attacked, on the ground that the resemblance to parents is never complete, and that the slight
deviations which occur may accumulate till they become
sufficiently decided to constitute a new species. Two
principles are therefore recognized: the one of resemblance, ascribed to the influence of hereditary decembthe other of variation, due to causes not as yet known. blance, ascribed to the influence of hereditary descent; the other of scriation, due to causes not as yet known. The resemblance of children to their parents is a fact of general observation, this going in most cases much beyond the mere likeness of members of the same species, and including many special marks and traits. Occasionally the resemblance is so close that a child and one of its parents are scarcely distinguishable except through difference in age. Usually it is less close, but the cases are rare in which some degree of resemblance

to one or both does not exist. Hereditary recomblance, as generally observed, is of external structure, and may embrace likeness in feature, complexion, size and a spe, and many uninor bodily peculiarities. Even anomalies of structure are hereditarily transmitted, as in the case of six fingers and toes, have been sent down through four generations, and were probably awamped out in the end by intermarriage with normal mates. Heredily in internal structure is no doubt as common, though less apparent. In some families, for instance, the blood vessels have a large development, while in others they are small. The same may occur with the nervous and nuscular systems. Tendency to certain diseases is also often transmitted; fecundity, length of life, &c., may be inherited, and idiosyncracies of character frequently reappear in descendants. As one instance, may be mentioned the fact that in the Turgot family the fifty-minth year was rarely passed, the members of the family usually failing in strength and dying at or before that age. In other families long life seems a hereditary characteristic. These are but a few instances of heredity which might be very widely added to. Many examples might be given of transmission of mental traits; and superior intellectual powers are certainly to some extent transmissible, there being long lists of poeta painters, musicians, &c., whose faculty descended through two or more generations. The tendency to commit suicide has been traced through four generations, and lonacy through eight or more generations. As for the characteristics of human races, they remain intact through whole nations. Chinese parents, for instance, bear children who are never likely to be mistaken for other than Chinese. Each race displays this persistence, and has bred true through long continued generations.

A child, however, cannot resemble both parenta, where these differ considerably. In the case of hermaphrodite animals, the offspring very closely resembles the single parent, or an intermediate mingling of ch

of development.

The reason that heredity does not produce still more striking results lies in the fact that it is subject to a constant reversing influence, that of the endency to vary, there being some principle of varis ion, whose cause is far from being understood, at vork in all organic beings, producing some degree of change in every instance and occasionally highly marked changes.

This cause whatever in origin seems to act upon the vary, there being some principle of varis ton, whose cause is far from being understood, at vork in all organic beings, producing some degree of change in every instance and occasionally highly marked changes. This cause, whatever its origin, seems to act upon the new being in the germ—probably upon the germinal cells of both parents—vielding a tendency to diverge in various characters. The result is that the offspring often bears only a distant resemblance to either of the parents, the divergence occasionally being very considerable. Parents of usual size, for example, may bear giants or dwarfs for children. Hare lip, polydactylism, &c., appear as exceptions, though they may become transmissible. Edward Lambert, the "porcupine man" (his whole body was covered with horny excrescences), was born of normal parents, though his peculiarity was transmitted through five generations. Minor exceptions are of daily occurrence. That these variations are due to some influence exerted upon the individual germ cells seems evident from the case of twins. These often bear a strong resemblance, yet occasionally present marked physical and mental differences. Yet the conditions of gestation were exactly the same and the variation must have had its origin in the reproductive cells, probably before the process of fertilization took place. Some influence exerted from the organism or from external nature, some peculiarity of arrangement of the cell molecules and energies, some effect of a struggle for existence between the many germinal cells, or still more subtle influences, may produce this result, whose causes as yet lie out of scientific eight and reach. The differentiation appears even in twins joined by some connecting link. Thus in the case of Ritta and Christina, the joined twins of Presburg, one was nandsome, gentle and sedate, the other ugly and quarrelsome. Chang and Eng, the Siamese twins, also presented differences though not so great ones, of appearance and character.

Study of organic nature leads to the conclusion t

effects of promiscuous intercourse is prevented, and any divergence that appears can be retained, while by a continued selective breeding of new varieties results

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